



City of New Haven  
200 Orange Street, 5<sup>th</sup> Floor  
New Haven, CT 06510

June 27, 2025  
Project No. 0720911825

Attn: Ms. Kimberly DiGiovanni  
Project Manager Engineer

**Re: MS4 Wet Weather Outfall Sampling 2025  
New Haven, Connecticut**

Dear Ms. DiGiovanni,

On May 9, 2025, and May 22, 2025, Atlas Technical Consultants, LLC (Atlas) collected stormwater samples during qualifying rain events. Visual inspections were conducted at forty-two (42) designated sampling locations. The collected samples were taken from thirty-two (32) designated catch basins and ten (10) designated City of New Haven MS4 outfalls, which primarily discharge into various waterbodies. All the catch basins sampled are directly connected to outfalls of concern within New Haven. All sampling was conducted in accordance with the Connecticut MS4 General Permit.

<b>OF-15</b>	<i>CB-Unnamed -3 (69)</i>	<i>CB-5132-A</i>
<i>CB-66</i>	<i>CB-Unnamed -4 (69)</i>	<i>CB-5000 (156)</i>
<i>CB-67</i>	<i>CB-1826 (123)</i>	<i>CB-5001 (156)</i>
<b>OF-32</b>	<i>CB-9481 (130-A)</i>	<i>CB-Unnamed (163-A)</i>
<i>CB-Unnamed (32)</i>	<i>CB-9480 (130)</i>	<i>CB-Unnamed (187)</i>
<i>Inlet 32</i>	<i>CB-2151</i>	<i>CB-Unnamed (190)</i>
<b>OF-42</b>	<i>CB-2152</i>	<i>CB-Unnamed (191)</i>
<b>OF-60-A</b>	<i>CB-2153</i>	<b>OF-192</b>
<i>CB-Unnamed (60-A)</i>	<i>CB-2154</i>	<i>CB-Unnamed (193)</i>
<b>OF-62</b>	<b>OF-156-Manhole</b>	<b>OF-194</b>
<i>CB-1087 (80)</i>	<i>CB-5675 (156)</i>	<b>OF-152</b>
<b>OF-69</b>	<i>CB-5129 (156)</i>	<i>CB-5079</i>
<i>CB-Unnamed -1 (69)</i>	<i>CB-5130 (156)</i>	<i>CB-5333</i>
<i>CB-Unnamed -2 (69)</i>	<i>CB-5131-A</i>	<i>CB-5338</i>

**Storm Event Details:**

*May 9, 2025*

Rainfall commenced around 09:55 A.M., accumulating approximately 0.68 inches throughout the day. The last qualifying rain event was more than 48 hours prior on May 6, 2025.

*May 22, 2025*

Rainfall commenced around 04:00 A.M., accumulating approximately 0.55 inches throughout the day. The last qualifying rain event was more than 48 hours prior on May 15, 2025.

**Sample Collection and Analysis:**

During sampling, field parameters such as the condition, odor description (if present), and discharge details of the outfall samples were collected. Outfall and/or surrounding area conditions were ranked with one (1) of the following descriptors: Excellent, Good, Fair, and Poor. General parameters collected in the field included temperature, pH, dissolved oxygen, specific conductivity (SPC), and oxygen-reduction potential (ORP). Runoff visual inspections included observations of color, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of stormwater pollution. Runoff visual inspections and the collection of general parameters were utilized in analyzing potential illicit discharges or contributing factors to outfall condition degradation.

These findings are summarized in **Table 1**, which can be found in **Attachment I**. Atlas analyzed each outfall for Boron, Hardness, Chlorine Residual, Chemical Oxygen Demand (COD), MBAS (surfactants), Ammonia as Nitrogen, Total Nitrogen, Total Kjeldahl Nitrogen (TKN), Oil and Grease, Total Phosphorus, Total Suspended Solids, Conductivity, Salinity, Escherichia Coli (E. Coli), Enterococci Bacteria, Fecal Coliforms, and Total Coliform



bacteria. Atlas collected samples of runoff discharges from each outfall in accordance with the MS4 General Permit and best practices.

Atlas submitted the samples to Phoenix Environmental Laboratories, Inc. (Phoenix), a State of Connecticut Department of Public Health certified laboratory, which were analyzed for all parameters as requested by the City of New Haven. An additional set of samples from each outfall were submitted to Environmental Consulting Laboratories, Inc. (ECL), a State of Connecticut Department of Public Health certified laboratory, which were analyzed for selected parameters. Consisting of bacteria; Escherichia Coli, Enterococci Bacteria, Fecal Coliforms, and Total Coliform. These findings are summarized in **Table 2**, which can be found in **Attachment I**. A photo log of sampled locations and discharge visuals is available from each event in **Attachment II**.

If you have any questions or require additional information, please contact the undersigned at (860) 282-9924.

Sincerely,  
**Atlas Technical Consultants, LLC**

RosaLinda Sibilio  
Environmental Scientist II

**Attachments:**

- Attachment I     Table 1  
                         Table 2
- Attachment II    Photographic Log: May 9, 2025  
                         Photographic Log: May 22, 2025
- Attachment III    Laboratory Analytical Reports

Ron Severson  
Senior Compliance Specialist

Table 1  
Stormwater Analytical Results  
May 9, 2025 and May 22, 2025

Location ID	Laboratory Analytical Parameters																		
	Boron (mg/L)	Turbidity (NTU)	Hardness CaCO3 (mg/L)	Chlorine Residual (mg/L)	COD (mg/L)	MBAS (mg/L)	Ammonia as Nitrogen (mg/L)	Nitrite-N (mg/L)	Nitrate-N (mg/L)	Oil and Grease (mg/L)	TKN (mg/L)	Total P (mg/L)	TSS (mg/L)	Conductivity (umhos/cm)	Salinity (ppt)	Escherichia Coli (MPN/100 mls)	Enterococci Bacteria (MPN/100mls)	Fecal Coliforms MPN (MPN/100mls)	Total Coliforms (MPN/100mls)
<b>OF-15</b>	<0.05	<b>120.00</b>	38.60	<0.02	166.00	0.18	<b>0.56</b>	0.02	0.41	2.10	3.90	<b>1.25</b>	590.00	85.00	<0.5	<b>&gt;24,2000</b>	<b>&gt;24,2000</b>	<b>&gt;24,2000</b>	<b>&gt;24,2000</b>
<i>CB-66</i>	<0.05	<b>6.40</b>	4.80	<0.02	114.00	0.11	0.41	0.02	0.21	1.40	2.17	<b>0.65</b>	26.00	46.00	<0.5	<b>4,110.00</b>	<b>576.00</b>	<b>323.00</b>	<b>&gt;24,2000</b>
<i>CB-67</i>	<0.05	<b>11.00</b>	7.70	<0.02	191.00	0.22	0.67	0.03	0.23	<1.4	2.78	<b>0.71</b>	33.00	54.00	<0.5	<b>24,200.00</b>	<b>2,480.00</b>	<b>19,200.00</b>	<b>&gt;24,200</b>
<b>OF-32</b>	<0.05	<b>4.20</b>	13.80	<0.02	17.00	<0.10	0.12	<0.010	0.17	<1.4	0.47	0.07	16.00	53.00	<0.5	<b>3,450.00</b>	<b>1,200.00</b>	<b>464.00</b>	<b>&gt;24,2000</b>
<i>CB-Unnamed (32)</i>	<0.05	<b>60.00</b>	13.00	<0.02	270.00	<b>0.54</b>	<b>1.42</b>	0.08	1.08	5.00	6.84	<b>0.70</b>	150.00	145.00	<0.5	<b>984.00</b>	<b>3,450.00</b>	<b>7,270.00</b>	<b>&gt;24,2000</b>

Table 1  
Stormwater Analytical Results  
May 9, 2025 and May 22, 2025

Location ID	Laboratory Analytical Parameters																		
	Boron (mg/L)	Turbidity (NTU)	Hardness CaCO3 (mg/L)	Chlorine Residual (mg/L)	COD (mg/L)	MBAS (mg/L)	Ammonia as Nitrogen (mg/L)	Nitrite-N (mg/L)	Nitrate-N (mg/L)	Oil and Grease (mg/L)	TKN (mg/L)	Total P (mg/L)	TSS (mg/L)	Conductivity (umhos/cm)	Salinity (ppt)	Escherichia Coli (MPN/100 mls)	Enterococci Bacteria (MPN/100mls)	Fecal Coliforms MPN (MPN/100mls)	Total Coliforms (MPN/100mls)
<i>Inlet (32)</i>	<0.05	0.95	13.40	<0.02	<10	<0.05	<0.05	<0.010	<0.02	<1.4	0.17	0.02	<2.0	48.00	<0.5	<b>1,720.00</b>	85.00	<10.00	<b>3,870.00</b>
<b>OF-42</b>	<0.05	<b>5.00</b>	6.20	<0.02	46.00	0.08	0.35	<0.010	0.34	2.20	1.43	0.19	16.00	39.00	<0.5	<b>6,870.00</b>	<b>5,480.00</b>	<b>209.00*</b>	<b>&gt;24,2000</b>
<b>OF-60-A</b>	<0.05	1.30	0.90	<0.02	<10	<0.05	0.36	<0.010	0.08	<1.4	0.75	0.03	<2.0	13.00	<0.5	<b>733.00</b>	<b>2,380.00</b>	<b>63.00*</b>	<b>&gt;24,2000</b>
<i>CB-Unnamed (60-A)</i>	<0.05	0.95	0.50	<0.02	<10	<0.05	0.12	<0.010	0.06	<1.4	0.39	0.02	<2.0	11.00	<0.5	<b>988.00</b>	<b>2,760.00</b>	<b>74.00*</b>	<b>&gt;24,2000</b>
<b>OF-62</b>	<0.05	<b>7.90</b>	5.70	<0.02	38.00	0.19	0.31	<0.010	0.12	1.40	1.01	0.12	25.00	24.00	<0.5	<b>12,000.00</b>	<b>5,790.00</b>	<b>839.00</b>	<b>&gt;24,2000</b>
<b>OF-80</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1  
Stormwater Analytical Results  
May 9, 2025 and May 22, 2025

Location ID	Laboratory Analytical Parameters																		
	Boron (mg/L)	Turbidity (NTU)	Hardness CaCO3 (mg/L)	Chlorine Residual (mg/L)	COD (mg/L)	MBAS (mg/L)	Ammonia as Nitrogen (mg/L)	Nitrite-N (mg/L)	Nitrate-N (mg/L)	Oil and Grease (mg/L)	TKN (mg/L)	Total P (mg/L)	TSS (mg/L)	Conductivity (umhos/cm)	Salinity (ppt)	Escherichia Coli (MPN/100 mls)	Enterococci Bacteria (MPN/100mls)	Fecal Coliforms MPN (MPN/100mls)	Total Coliforms (MPN/100mls)
CB-1087 (80)	<0.05	7.50	3.70	<0.02	38.00	<0.10	0.26	<0.010	0.07	<1.4	1.08	0.16	15.00	29.00	<0.5	862.00	3,260.00	85.00*	>24,2000
OF-69	<0.05	6.40	32.10	<0.02	14.00	<0.10	0.23	<0.010	0.24	<1.4	0.79	0.08	16.00	129.00	<0.5	1,720.00	3,870.00	317.00	>24,2000
CB-Unnamed-1 (69)	<0.05	20.00	4.70	<0.02	36.00	0.23	0.34	0.01	0.28	2.60	1.17	0.09	48.00	56.00	<0.5	6,870.00	3,870.00	9,210.00	>24,2000
CB-Unnamed-2 (69)	<0.50	3,000.00	968.00	<0.02	14,800.00	0.81	29.70	0.03	0.11	99.20	254.00	25.10	19,000.00	13.00	0.60	7,440.00	38,700.00	3,650.00	>24,2000
CB-Unnamed-3 (69)	<0.05	16.00	4.50	<0.02	48.00	<0.010	0.25	<0.010	0.18	3.20	0.98	0.15	60.00	23.00	<0.5	345.00	990.00	2,610.00	>24,2000

Table 1  
Stormwater Analytical Results  
May 9, 2025 and May 22, 2025

Location ID	Laboratory Analytical Parameters																		
	Boron (mg/L)	Turbidity (NTU)	Hardness CaCO3 (mg/L)	Chlorine Residual (mg/L)	COD (mg/L)	MBAS (mg/L)	Ammonia as Nitrogen (mg/L)	Nitrite-N (mg/L)	Nitrate-N (mg/L)	Oil and Grease (mg/L)	TKN (mg/L)	Total P (mg/L)	TSS (mg/L)	Conductivity (umhos/cm)	Salinity (ppt)	Escherichia Coli (MPN/100 mls)	Enterococci Bacteria (MPN/100mls)	Fecal Coliforms MPN (MPN/100mls)	Total Coliforms (MPN/100mls)
<i>CB-Unnamed-4 (69)</i>	<0.05	<b>9.60</b>	4.30	<0.02	80.00	<0.10	0.27	<0.010	0.19	4.30	1.56	0.15	38.00	28.00	<0.5	<b>&gt;24,200</b>	<b>6,870.00</b>	<b>1,920.00</b>	<b>&gt;24,2000</b>
<b>OF-123</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>CB-1826 (123)</i>	<0.05	<b>15.00</b>	23.90	<0.02	221.00	0.16	<b>0.54</b>	<0.010	0.12	2.80	2.51	<b>0.62</b>	420.00	75.00	<0.50	<b>4,610.00</b>	<b>&gt;24,200</b>	187.00	<b>&gt;24,2000</b>
<b>OF-130-A</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>CB-9481 (130-A)</i>	<0.05	<b>84.50</b>	41.30	<0.02	106.00	<b>0.27</b>	0.44	0.02	0.25	4.20	1.71	<b>0.37</b>	330.00	167.00	<0.5	<b>1,060.00</b>	<b>2,480.00</b>	246.00	<b>&gt;24,2000</b>
<b>OF-130</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1  
Stormwater Analytical Results  
May 9, 2025 and May 22, 2025

Location ID	Laboratory Analytical Parameters																		
	Boron (mg/L)	Turbidity (NTU)	Hardness CaCO3 (mg/L)	Chlorine Residual (mg/L)	COD (mg/L)	MBAS (mg/L)	Ammonia as Nitrogen (mg/L)	Nitrite-N (mg/L)	Nitrate-N (mg/L)	Oil and Grease (mg/L)	TKN (mg/L)	Total P (mg/L)	TSS (mg/L)	Conductivity (umhos/cm)	Salinity (ppt)	Escherichia Coli (MPN/100 mls)	Enterococci Bacteria (MPN/100mls)	Fecal Coliforms MPN (MPN/100mls)	Total Coliforms (MPN/100mls)
<i>CB-9480 (130)</i>	<0.05	<b>36.00</b>	8.90	<0.02	61.00	0.18	<b>0.58</b>	0.02	0.26	2.30	1.49	0.11	0.11	67.00	<0.5	<b>7,270.00</b>	<b>5,250.00</b>	<b>384.00</b>	<b>&gt;24,200</b>
<b>OF-251</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>CB-2151 (251)</i>	<0.05	<b>21.00</b>	6.90	<0.02	38.00	0.13	0.24	<0.010	0.16	3.00	0.75	<b>0.33</b>	15.00	41.00	<0.5	<b>249.00</b>	<b>1,790.00</b>	122.00	<b>&gt;24,200</b>
																<b>2,760.00</b>	<b>4,350.00</b>	<b>932.00</b>	<b>&gt;24,200</b>
<i>CB-2152 (251)</i>	0.07	<b>370.00</b>	133.00	<0.02	1,570.00	<b>0.36</b>	<b>1.70</b>	0.04	0.43	79.30	20.70	<b>2.20</b>	2,100.00	95.00	<0.5	<b>9,210.00</b>	<b>&gt;24,200</b>	<b>6,490.00</b>	<b>&gt;24,200</b>
																<b>13,000.00</b>	<b>10,100.00</b>	<b>3,450.00</b>	<b>&gt;24,200</b>

Table 1  
Stormwater Analytical Results  
May 9, 2025 and May 22, 2025

Location ID	Laboratory Analytical Parameters																		
	Boron (mg/L)	Turbidity (NTU)	Hardness CaCO3 (mg/L)	Chlorine Residual (mg/L)	COD (mg/L)	MBAS (mg/L)	Ammonia as Nitrogen (mg/L)	Nitrite-N (mg/L)	Nitrate-N (mg/L)	Oil and Grease (mg/L)	TKN (mg/L)	Total P (mg/L)	TSS (mg/L)	Conductivity (umhos/cm)	Salinity (ppt)	Escherichia Coli (MPN/100 mls)	Enterococci Bacteria (MPN/100mls)	Fecal Coliforms MPN (MPN/100mls)	Total Coliforms (MPN/100mls)
CB-2153 (251)	<0.05	56.50	18.70	<0.02	140.00	0.30	0.46	0.03	0.41	3.90	2.73	0.37	46.00	93.00	<0.5	8,660.00	17,300.00	7,700.00	>24,200
																>24,200	>24,200	8,160.00	>24,200
CB-2154 (251)	<0.05	53.50	16.90	<0.02	119.00	0.30	0.51	0.03	0.39	3.50	2.16	0.35	58.00	91.00	<0.5	14,100.00	24,200.00	8,660.00	>24,200
																>24,200	>24,200	14,100.00	>24,200
OF-156	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OF-156 Manhole	0.12	16.00	73.20	<0.02	42.00	0.11	<0.05	<0.010	0.08	<1.4	0.80	0.12	60.00	192.00	<0.5	11,200.00	6,490.00	2,110.00	>24,200
																>24,200	3,780.00	17,300.00	>2400

Table 1  
Stormwater Analytical Results  
May 9, 2025 and May 22, 2025

Location ID	Laboratory Analytical Parameters																		
	Boron (mg/L)	Turbidity (NTU)	Hardness CaCO3 (mg/L)	Chlorine Residual (mg/L)	COD (mg/L)	MBAS (mg/L)	Ammonia as Nitrogen (mg/L)	Nitrite-N (mg/L)	Nitrate-N (mg/L)	Oil and Grease (mg/L)	TKN (mg/L)	Total P (mg/L)	TSS (mg/L)	Conductivity (umhos/cm)	Salinity (ppt)	Escherichia Coli (MPN/100 mls)	Enterococci Bacteria (MPN/100mls)	Fecal Coliforms MPN (MPN/100mls)	Total Coliforms (MPN/100mls)
CB-5675 (156)	0.06	25.00	28.50	<0.02	63.00	0.23	0.20	0.01	0.19	2.70	0.93	0.14	44.00	179.00	<0.5	6,130.00	8,160.00	5,170.00	>24,200
																4,110.00	4,880.00	345.00	>24,200
CB-5129 (156)	<0.05	1,200.00	69.60	<0.02	361.00	0.67	0.17	0.03	0.17	86.40	2.38	0.52	3,200.00	1,420.00	0.70	201.00	496.00	295.00	>24,200
																>24,200	>24,200	>24,200	>24,200
CB-5130 (156)	<0.05	43.50	7.80	<0.02	59.00	0.18	0.21	0.02	0.35	2.10	1.34	0.18	33.00	251.00	<0.5	24,200.00	>24,200	4,880.00	>24,200
																>24,200	3,970.00	17,300.00	>24,200

**Table 1**  
**Stormwater Analytical Results**  
**May 9, 2025 and May 22, 2025**

Location ID	Laboratory Analytical Parameters																		
	Boron (mg/L)	Turbidity (NTU)	Hardness CaCO3 (mg/L)	Chlorine Residual (mg/L)	COD (mg/L)	MBAS (mg/L)	Ammonia as Nitrogen (mg/L)	Nitrite-N (mg/L)	Nitrate-N (mg/L)	Oil and Grease (mg/L)	TKN (mg/L)	Total P (mg/L)	TSS (mg/L)	Conductivity (umhos/cm)	Salinity (ppt)	Escherichia Coli (MPN/100 mls)	Enterococci Bacteria (MPN/100mls)	Fecal Coliforms MPN (MPN/100mls)	Total Coliforms (MPN/100mls)
CB-5131-A (156)	0.22	550.00	382.00	<0.02	834.00	0.62	1.22	0.02	0.25	27.90	12.60	1.43	7,200.00	8,440.00	4.20	888.00	24,200.00	327.00	>24,200
																>24,200	17,300.00	17,300.00	>24,200
CB-5132-A (156)	<0.05	190.00	43.90	<0.02	1,400.00	0.31	0.36	0.01	0.20	34.90	3.93	3.33	2,100.00	3,010.00	18.60	1,330.00	8,160.00	471.00	>24,200
																>24,200	686.00	>24,200	>24,200
CB-5000 (156)	<0.05	330.00	65.80	<0.02	238.00	0.34	<0.25	0.02	0.23	13.50	2.55	0.12	270.00	5,210.00	2.80	5,170.00	>24,200	6,490.00	>24,200
																988.00	7,920.00	288.00	>24,200

Table 1  
Stormwater Analytical Results  
May 9, 2025 and May 22, 2025

Location ID	Laboratory Analytical Parameters																			
	Boron (mg/L)	Turbidity (NTU)	Hardness CaCO3 (mg/L)	Chlorine Residual (mg/L)	COD (mg/L)	MBAS (mg/L)	Ammonia as Nitrogen (mg/L)	Nitrite-N (mg/L)	Nitrate-N (mg/L)	Oil and Grease (mg/L)	TKN (mg/L)	Total P (mg/L)	TSS (mg/L)	Conductivity (umhos/cm)	Salinity (ppt)	Escherichia Coli (MPN/100 mls)	Enterococci Bacteria (MPN/100mls)	Fecal Coliforms MPN (MPN/100mls)	Total Coliforms (MPN/100mls)	
CB-5001 (156)	<0.05	120.00	79.70	<0.02	144.00	0.23	0.32	0.02	0.25	28.90	1.19	0.23	680.00	7,520.00	4.20	4,350.00	15,500.00	2,610.00	>24,200	
																305.00	1,620.00	62.00	>24,200	
OF-163-A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CB-Unnamed (163-A)	<0.05	28.00	4.20	<0.02	63.00	0.16	0.28	<0.010	0.19	<1.4	1.33	0.22	15.00	69.00	<0.5	1,570.00	15,500.00	2,250.00	5,340.00	
																>24,200	30.00	17,300.00	>24,200	

Table 1  
Stormwater Analytical Results  
May 9, 2025 and May 22, 2025

Location ID	Laboratory Analytical Parameters																		
	Boron (mg/L)	Turbidity (NTU)	Hardness CaCO3 (mg/L)	Chlorine Residual (mg/L)	COD (mg/L)	MBAS (mg/L)	Ammonia as Nitrogen (mg/L)	Nitrite-N (mg/L)	Nitrate-N (mg/L)	Oil and Grease (mg/L)	TKN (mg/L)	Total P (mg/L)	TSS (mg/L)	Conductivity (umhos/cm)	Salinity (ppt)	Escherichia Coli (MPN/100 mls)	Enterococci Bacteria (MPN/100mls)	Fecal Coliforms MPN (MPN/100mls)	Total Coliforms (MPN/100mls)
OF-187	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CB-Unnamed (187)	<0.05	180.00	8.30	<0.02	104.00	0.21	0.31	0.01	0.15	3.20	1.90	0.35	42.00	55.00	<0.5	3,450.00	17,300.00	14,100.00	>24,200
																>24,200	>24,200	2,610.00	>24,200
OF-190	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CB-Unnamed (190)	<0.05	60.00	46.10	<0.02	708.00	<0.10	0.80	<0.010	0.19	4.60	8.69	1.74	450.00	23.00	<0.5	73.00	>24,200	98.00*	>24,200
																>24,200	50.00	2,190.00	>24,200

Table 1  
Stormwater Analytical Results  
May 9, 2025 and May 22, 2025

Location ID	Laboratory Analytical Parameters																		
	Boron (mg/L)	Turbidity (NTU)	Hardness CaCO3 (mg/L)	Chlorine Residual (mg/L)	COD (mg/L)	MBAS (mg/L)	Ammonia as Nitrogen (mg/L)	Nitrite-N (mg/L)	Nitrate-N (mg/L)	Oil and Grease (mg/L)	TKN (mg/L)	Total P (mg/L)	TSS (mg/L)	Conductivity (umhos/cm)	Salinity (ppt)	Escherichia Coli (MPN/100 mls)	Enterococci Bacteria (MPN/100mls)	Fecal Coliforms MPN (MPN/100mls)	Total Coliforms (MPN/100mls)
OF-191	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CB-Unnamed (191)	<0.05	16.00	15.50	<0.02	97.00	0.30	0.22	<0.010	0.14	5.50	2.43	0.37	150.00	46.00	<0.5	>24,200	>24,200	>24,200	>24,200
																269.00	670.00	345.00	>24,200
OF-192	0.11	16.00	106.00	<0.02	53.00	0.38	0.24	0.01	0.33	<1.4	0.96	0.19	19.00	1,020.00	0.50	4,110.00	17,300.00	1,150.00	>24,200
																10,500.00	1,510.00	1,850.00	>24,200
OF-193	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1  
Stormwater Analytical Results  
May 9, 2025 and May 22, 2025

Location ID	Laboratory Analytical Parameters																		
	Boron (mg/L)	Turbidity (NTU)	Hardness CaCO3 (mg/L)	Chlorine Residual (mg/L)	COD (mg/L)	MBAS (mg/L)	Ammonia as Nitrogen (mg/L)	Nitrite-N (mg/L)	Nitrate-N (mg/L)	Oil and Grease (mg/L)	TKN (mg/L)	Total P (mg/L)	TSS (mg/L)	Conductivity (umhos/cm)	Salinity (ppt)	Escherichia Coli (MPN/100 mls)	Enterococci Bacteria (MPN/100mls)	Fecal Coliforms MPN (MPN/100mls)	Total Coliforms (MPN/100mls)
CB-Unnamed (193)	0.33	9.30	312.00	<0.02	80.00	<0.10	0.22	<0.010	0.34	1.80	0.81	0.14	10.00	2,960.00	1.60	1,250.00	3,650.00	345.00	>24,200
																1,240.00	889.00	218*	>24,200
OF-194	0.08	80.00	95.60	<0.02	208.00	<0.10	0.34	<0.010	0.12	5.10	3.76	0.68	370.00	83.00	<0.5	7,220.00	12,000.00	1,570.00	10,100.00
																24,200.00	5,010.00	2,480.00	>24,200
OF-152	<0.05	2.10	48.00	<0.02	19.00	<0.10	0.13	<0.010	1.94	<1.4	0.62	0.06	<2.0	252.00	<0.5	697.00	2,140.00	529.00	>24,200
																24,200.00	13,000.00	4,880.00	>24,200
CB-5079 (152)	<0.05	2.90	44.60	<0.02	27.00	<0.10	0.16	<0.010	1.84	<1.4	0.64	0.10	12.00	234.00	<0.5	617.00	2,050.00	350.00	>24,200
																17,300.00	7,700.00	3,450.00	>24,200

**Table 1**  
**Stormwater Analytical Results**  
 May 9, 2025 and May 22, 2025

Location ID	Laboratory Analytical Parameters																		
	Boron (mg/L)	Turbidity (NTU)	Hardness CaCO3 (mg/L)	Chlorine Residual (mg/L)	COD (mg/L)	MBAS (mg/L)	Ammonia as Nitrogen (mg/L)	Nitrite-N (mg/L)	Nitrate-N (mg/L)	Oil and Grease (mg/L)	TKN (mg/L)	Total P (mg/L)	TSS (mg/L)	Conductivity (umhos/cm)	Salinity (ppt)	Escherichia Coli (MPN/100 mls)	Enterococci Bacteria (MPN/100mls)	Fecal Coliforms MPN (MPN/100mls)	Total Coliforms (MPN/100mls)
CB-5333 (152)	<0.05	<b>33.00</b>	12.50	<0.02	140.00	<b>0.35</b>	<b>0.52</b>	0.01	0.48	2.40	2.74	<b>0.34</b>	24.00	74.00	<0.5	6,490.00	13,000.00	12,000.00	>24,200
																1,540.00	3,040.00	602.00	>24,200
CB-5338 (152)	<0.05	<b>6.80</b>	7.60	<0.02	76.00	0.23	0.22	0.01	0.10	<1.4	1.41	0.26	11.00	42.00	<0.5	8,660.00	>24,200	12,000.00	>24,200
																428.00	1,280.00	512.00	>24,200

<b>Notes:</b>
1. pH field tested by Atlas
2. Concentrations in <b>bold</b> were reported above the laboratory reporting limits
3. mg/L: milligrams per liter
4. TKN = Nitrogen Tot Kjeldahl
5. < 0.5: indicates compound was Not Detected at or above the specified laboratory reporting limit
6. >24,200: Indicates sample was found above the laboratory detection limit
7. -- = Not Sampled
<b>8. Highlighted = above Pollutant Threshold</b>
9. For Total Coliform, those marked with an asterisk (*) qualify under the SA classification

<b>Pollutant Thresholds According to the CT MS4 Permit</b>	
<b>Pollutant</b>	<b>Pollutant Threshold</b>
Nitrogen (Total)	≥2.5 mg/L
Phosphorus (Total)	≥0.3 mg/L
Bacteria (Fresh Waterbody)	E. Coli: >235 col/100 ml for swimming areas Total Coliform: >500 col/100 mL
Bacteria (Salt Waterbody)	Fecal Coli: >31 col/100ml for Class SA and >260 col/100mL for Class SB Enterococci: >104 col/100 ml for swimming areas or 500 col/100 mL for all others
Other POCs	Sample Turbidity is 5 NTU > in-stream sample
Ammonia	≥0.5 mg/L
Surfactants	≥0.25 mg/L
Chlorine	Any Detectable Level
Conductivity	>1,500 uS
Salinity	0.5 ppt

Table 2  
Stormwater Analytical Results  
Laboratory Duplicate Bacteria Samples  
May 9, 2025 and May 22, 2025

Laboratory Analytical Results										
Location ID	Receiving Waterbody	Sample Date	Environmental Consulting Laboratories				Phoenix Environmental Laboratories			
			Escherichia Coli (MPN/100 mls)	Enterococci Bacteria (MPN/100mls)	Fecal Coliforms MPN (MPN/100mls)	Total Coliforms (MPN/100mls)	Escherichia Coli (MPN/100 mls)	Enterococci Bacteria (MPN/100mls)	Fecal Coliforms MPN (MPN/100mls)	Total Coliforms (MPN/100mls)
<b>OF-15</b>	Surface Discharge (Hilltop Playground)	5/9/2025	>24,196	>24,196	>24,196	>24,196	>24,2000	>24,2000	>24,2000	>24,2000
<i>CB-66</i>	Surface Discharge (Hilltop Playground)	5/9/2025	3,448.00	24,196.00	1,585.00	12,997.00	4,110.00	576.00	323.00	>24,2000
<i>CB-67</i>	Surface Discharge (Hilltop Playground)	5/9/2025	>24,196	4,884.00	>24,196	>24,196	24,200.00	2,480.00	19,200.00	>24,200
<b>OF-32</b>	Wintergreen Brook	5/9/2025	1,860.00	6,488.00	3,255.00	19,863.00	3,450.00	1,200.00	464.00	>24,2000
<i>CB-Unnamed (32)</i>	Wintergreen Brook	5/9/2025	152.00	857.00	17,329.00	>24,196	984.00	3,450.00	7,270.00	>24,2000
<i>Inlet (32)</i>	Wintergreen Brook	5/9/2025	2,851.00	52.00	2,143.00	3,282.00	1,720.00	85.00	<10.00	3,870.00
<b>OF-42</b>	West River	5/9/2025	2,279.00	9,804.00	3,076.00	17,329.00	6,870.00	5,480.00	209.00*	>24,2000
<b>OF-60-A</b>	Wintergreen Brook	5/9/2025	988.00	934.00	637.00	12,997.00	733.00	2,380.00	63.00*	>24,2000
<i>CB-Unnamed (60-A)</i>	Wintergreen Brook	5/9/2025	1,281.00	1,014.00	712.00	6,893.00	988.00	2,760.00	74.00*	>24,2000
<b>OF-62</b>	Wintergreen Brook	5/9/2025	8,164.00	4,611.00	6,867.00	24,196.00	12,000.00	5,790.00	839.00	>24,2000
<b>OF-80</b>	Beaver Pond	5/9/2025	--	--	--	--	--	--	--	--
<i>CB-1087 (80)</i>	Beaver Pond	5/9/2025	1,145.00	3,873.00	496.00	10,462.00	862.00	3,260.00	85.00*	>24,2000

Table 2  
Stormwater Analytical Results  
Laboratory Duplicate Bacteria Samples  
May 9, 2025 and May 22, 2025

Laboratory Analytical Results										
Location ID	Receiving Waterbody	Sample Date	Environmental Consulting Laboratories				Phoenix Environmental Laboratories			
			Escherichia Coli (MPN/100 mls)	Enterococci Bacteria (MPN/100mls)	Fecal Coliforms MPN (MPN/100mls)	Total Coliforms (MPN/100mls)	Escherichia Coli (MPN/100 mls)	Enterococci Bacteria (MPN/100mls)	Fecal Coliforms MPN (MPN/100mls)	Total Coliforms (MPN/100mls)
<b>OF-69</b>	West River	5/9/2025	<b>2,755.00</b>	<b>2,247.00</b>	<b>2,142.00</b>	<b>24,196.00</b>	<b>1,720.00</b>	<b>3,870.00</b>	<b>317.00</b>	<b>&gt;24,2000</b>
<i>CB-Unnamed-1 (69)</i>	West River	5/9/2025	<b>8,664.00</b>	<b>6,488.00</b>	<b>12,997.00</b>	<b>&gt;24,196</b>	<b>6,870.00</b>	<b>3,870.00</b>	<b>9,210.00</b>	<b>&gt;24,2000</b>
<i>CB-Unnamed-2 (69)</i>	West River	5/9/2025	<b>10,462.00</b>	<b>&gt;24,196</b>	<b>7,270.00</b>	<b>&gt;24,196</b>	<b>7,440.00</b>	<b>38,700.00</b>	<b>3,650.00</b>	<b>&gt;24,2000</b>
<i>CB-Unnamed-3 (69)</i>	West River	5/9/2025	<b>359.00</b>	<b>408.00</b>	<b>5,794.00</b>	<b>12,997.00</b>	<b>345.00</b>	<b>990.00</b>	<b>2,610.00</b>	<b>&gt;24,2000</b>
<i>CB-Unnamed-4 (69)</i>	West River	5/9/2025	<b>&gt;24,196</b>	<b>12,033.00</b>	<b>&gt;24,196</b>	<b>&gt;24,196</b>	<b>&gt;24,200</b>	<b>6,870.00</b>	<b>1,920.00</b>	<b>&gt;24,2000</b>
<b>OF-123</b>	Mill River	5/9/2025	--	--	--	--	--	--	--	--
<i>CB-1826 (123)</i>	Mill River	5/9/2025	<b>4,106.00</b>	<b>19,863.00</b>	<b>2,495.00</b>	<b>19,863.00</b>	<b>4,610.00</b>	<b>&gt;24,200</b>	187.00	<b>&gt;24,2000</b>
<b>OF-130-A</b>	Mill River	5/9/2025	--	--	--	--	--	--	--	--
<i>CB-9481 (130-A)</i>	Mill River	5/9/2025	<b>933.00</b>	<b>3,654.00</b>	<b>959.00</b>	<b>11,199.00</b>	<b>1,060.00</b>	<b>2,480.00</b>	246.00	<b>&gt;24,2000</b>
<b>OF-130</b>	Mill River	5/9/2025	--	--	--	--	--	--	--	--
<i>CB-9480 (130)</i>	Mill River	5/9/2025	<b>9,804.00</b>	<b>15,531.00</b>	<b>7,701.00</b>	<b>&gt;24,196</b>	<b>7,270.00</b>	<b>5,250.00</b>	<b>384.00</b>	<b>&gt;24,2000</b>
<b>OF-251</b>	Wetland Area eventually discharging to Quinnipiac River	5/9/2025	--	--	--	--	--	--	--	--
<i>CB-2151 (251)</i>	Wetland Area eventually discharging to Quinnipiac River	5/9/2025	<b>292.00</b>	<b>1,793.00</b>	<b>426.00</b>	<b>19,863.00</b>	<b>249.00</b>	<b>1,790.00</b>	122.00	<b>&gt;24,2000</b>
		5/22/2025	<b>717.00</b>	<b>9,804.00</b>	<b>2,909.00</b>	<b>19,863.00</b>	<b>2,760.00</b>	<b>4,350.00</b>	<b>932.00</b>	<b>&gt;24,200</b>

Table 2  
Stormwater Analytical Results  
Laboratory Duplicate Bacteria Samples  
May 9, 2025 and May 22, 2025

Laboratory Analytical Results										
Location ID	Receiving Waterbody	Sample Date	Environmental Consulting Laboratories				Phoenix Environmental Laboratories			
			Escherichia Coli (MPN/100 mls)	Enterococci Bacteria (MPN/100mls)	Fecal Coliforms MPN (MPN/100mls)	Total Coliforms (MPN/100mls)	Escherichia Coli (MPN/100 mls)	Enterococci Bacteria (MPN/100mls)	Fecal Coliforms MPN (MPN/100mls)	Total Coliforms (MPN/100mls)
CB-2152 (251)	Wetland Area eventually discharging to Quinnipiac River	5/9/2025	--*	--*	--*	--*	9,210.00	>24,200	6,490.00	>24,2000
		5/22/2025	5,172.00	>24,196	10,462.00	24,196.00	13,000.00	10,100.00	3,450.00	>24,200
CB-2153 (251)	Wetland Area eventually	5/9/2025	--*	--*	--*	--*	8,660.00	17,300.00	7,700.00	>24,2000
		5/22/2025	12,033.00	>24,196	12,997.00	>24,196	>24,200	>24,200	8,160.00	>24,200
CB-2154 (251)	Wetland Area eventually	5/9/2025	--*	--*	--*	--*	14,100.00	24,200.00	8,660.00	>24,2000
		5/22/2025	4,352.00	>24,196	>24,196	24,196.00	>24,200	>24,200	14,100.00	>24,200
OF-156	Quinnipiac River	5/9/2025	--	--	--	--	--	--	--	--
OF-156 Manhole	Quinnipiac River	5/9/2025	--*	--*	--*	--*	11,200.00	6,490.00	2,110.00	>24,200
		5/22/2025	>24,196	12,997.00	>24,196	>24,196	>24,200	3,780.00	17,300.00	>2400
CB-5675 (156)	Quinnipiac River	5/9/2025	5,475.00	8,664.00	8,164.00	19,863.00	6,130.00	8,160.00	5,170.00	>24,200
		5/22/2025	512.00	6,131.00	2,755.00	7,556.00	4,110.00	4,880.00	345.00	>24,200
CB-5129 (156)	Quinnipiac River	5/9/2025	395.00	884.00	226.00	1,212.00	201.00	496.00	295.00	>24,200
		5/22/2025	12,033.00	>24,196	24,196.00	>24,196	>24,200	>24,200	>24,200	>24,200
CB-5130 (156)	Quinnipiac River	5/9/2025	19,863.00	15,531.00	11,199.00	>24,196	24,200.00	>24,200	4,880.00	>24,200
		5/22/2025	12,997.00	7,270.00	>24,196	>24,196	>24,200	3,970.00	17,300.00	>24,200
CB-5131-A (156)	Quinnipiac River	5/9/2025	1,467.00	12,033.00	1,059.00	11,199.00	888.00	24,200.00	327.00	>24,200
		5/22/2025	6,488.00	>24,196	>24,196	19,863.00	>24,200	17,300.00	17,300.00	>24,200
CB-5132-A (156)	Quinnipiac River	5/9/2025	798.00	2,755.00	833.00	4,721.00	1,330.00	8,160.00	471.00	>24,200
		5/22/2025	7,270.00	>24,196	14,136.00	17,329.00	>24,200	686.00	>24,200	>24,200
CB-5000 (156)	Quinnipiac River	5/9/2025	3,873.00	17,329.00	2,282.00	17,329.00	5,170.00	>24,200	6,490.00	>24,200
		5/22/2025	420.00	8,664.00	891.00	5,099.00	988.00	7,920.00	288.00	>24,200
CB-5001 (156)	Quinnipiac River	5/9/2025	3,255.00	9,208.00	2,613.00	19,863.00	4,350.00	15,500.00	2,610.00	>24,200
		5/22/2015	63.00	1,201.00	246.00	2,187.00	305.00	1,620.00	62.00	>24,200

Table 2  
Stormwater Analytical Results  
Laboratory Duplicate Bacteria Samples  
May 9, 2025 and May 22, 2025

Laboratory Analytical Results										
Location ID	Receiving Waterbody	Sample Date	Environmental Consulting Laboratories				Phoenix Environmental Laboratories			
			Escherichia Coli (MPN/100 mls)	Enterococci Bacteria (MPN/100mls)	Fecal Coliforms MPN (MPN/100mls)	Total Coliforms (MPN/100mls)	Escherichia Coli (MPN/100 mls)	Enterococci Bacteria (MPN/100mls)	Fecal Coliforms MPN (MPN/100mls)	Total Coliforms (MPN/100mls)
<b>OF-163-A</b>	Tuttle Brook	5/9/2025	--	--	--	--	--	--	--	--
<i>CB-Unnamed (163-A)</i>	Tuttle Brook	5/9/2025	--*	--*	--*	--*	1,570.00	15,500.00	2,250.00	5,340.00
		5/22/2025	12,033.00	>24,196	24,196.00	>24,196	>24,200	30.00	17,300.00	>24,200
<b>OF-187</b>	Tuttle Brook	5/9/2025	--	--	--	--	--	--	--	--
<i>CB-Unnamed (187)</i>	Tuttle Brook	5/9/2025	--*	--*	--*	--*	3,450.00	17,300.00	14,100.00	>24,200
		5/22/2025	2,613.00	14,136.00	1,430.00	10,462.00	>24,200	>24,200	2,610.00	>24,200
<b>OF-190</b>	Tuttle Brook	5/9/2025	--	--	--	--	--	--	--	--
<i>CB-Unnamed (190)</i>	Tuttle Brook	5/9/2025	--*	--*	--*	--*	73.00	>24,200	98.00*	>24,200
		5/22/2025	1,439.00	3,076.00	8,664.00	11,199.00	>24,200	50.00	2,190.00	>24,200
<b>OF-191</b>	Tuttle Brook	5/9/2025	--	--	--	--	--	--	--	--
<i>CB-Unnamed (191)</i>	Tuttle Brook	5/9/2025	--*	--*	--*	--*	>24,200	>24,200	>24,200	>24,200
		5/22/2025	31.00	15,331.00	2,282.00	1,212.00	269.00	670.00	345.00	>24,200
<b>OF-192</b>	Tuttle Brook	5/9/2025	--*	--*	--*	--*	4,110.00	17,300.00	1,150.00	>24,200
		5/22/2025	1,014.00	6,131.00	9,208.00	8,704.00	10,500.00	1,510.00	1,850.00	>24,200
<b>OF-193</b>	Tuttle Brook	5/9/2025	--	--	--	--	--	--	--	--
<i>CB-Unnamed (193)</i>	Tuttle Brook	5/9/2025	--*	--*	--*	--*	1,250.00	3,650.00	345.00	>24,200
		5/22/2025	420.00	571.00	1,414.00	5,717.00	1,240.00	889.00	218*	>24,200
<b>OF-194</b>	Tuttle Brook	5/9/2025	--*	--*	--*	--*	7,220.00	12,000.00	1,570.00	10,100.00
		5/22/2025	4,352.00	15,531.00	18,863.00	>24,196	24,200.00	5,010.00	2,480.00	>24,200
<b>OF-152</b>	Morris Cove and eventually The Long Island Sound	5/9/2025	--*	--*	--*	--*	697.00	2,140.00	529.00	>24,200
		5/22/2025	4,884.00	12,033.00	17,329.00	>24,196	24,200.00	13,000.00	4,880.00	>24,200

Table 2  
Stormwater Analytical Results  
Laboratory Duplicate Bacteria Samples  
May 9, 2025 and May 22, 2025

Laboratory Analytical Results										
Location ID	Receiving Waterbody	Sample Date	Environmental Consulting Laboratories				Phoenix Environmental Laboratories			
			Escherichia Coli (MPN/100 mls)	Enterococci Bacteria (MPN/100mls)	Fecal Coliforms MPN (MPN/100mls)	Total Coliforms (MPN/100mls)	Escherichia Coli (MPN/100 mls)	Enterococci Bacteria (MPN/100mls)	Fecal Coliforms MPN (MPN/100mls)	Total Coliforms (MPN/100mls)
CB-5079 (152)	Morris Cove and eventually The Long Island Sound	5/9/2025	--*	--*	--*	--*	<b>617.00</b>	<b>2,050.00</b>	<b>350.00</b>	<b>&gt;24,200</b>
		5/22/2025	<b>2,723.00</b>	<b>15,531.00</b>	<b>12,033.00</b>	<b>11,199.00</b>	<b>17,300.00</b>	<b>7,700.00</b>	<b>3,450.00</b>	<b>&gt;24,200</b>
CB-5333 (152)	Morris Cove and eventually The Long Island Sound	5/9/2025	--*	--*	--*	--*	<b>6,490.00</b>	<b>13,000.00</b>	<b>12,000.00</b>	<b>&gt;24,200</b>
		5/22/2025	<b>384.00</b>	<b>5,342.00</b>	<b>1,291.00</b>	<b>6,893.00</b>	<b>1,540.00</b>	<b>3,040.00</b>	<b>602.00</b>	<b>&gt;24,200</b>
CB-5338 (152)	Morris Cove and eventually The Long Island Sound	5/9/2025	--*	--*	--*	--*	<b>8,660.00</b>	<b>&gt;24,200</b>	<b>12,000.00</b>	<b>&gt;24,200</b>
		5/22/2025	<b>1,461.00</b>	<b>1,872.00</b>	<b>504.00</b>	<b>4,520.00</b>	<b>428.00</b>	<b>1,280.00</b>	<b>512.00</b>	<b>&gt;24,200</b>

Pollutant Thresholds According to the CT MS4 Permit	
Pollutant	Pollutant Threshold
Bacteria (Fresh Waterbody)	E. Coli: >235 col/100 ml for swimming areas
Bacteria (Salt Waterbody)	Fecal Coli: >31 col/100ml for Class SA and >260 col/100mL for Class SB

- Notes:
1. Concentrations in bold were reported above the laboratory reporting limits
  2. < 0.5: indicates compound was Not Detected at or above the specified laboratory reporting limit
  3. >24,200: Indicates sample was found above the laboratory detection limit
  4. \* = Not Analyzed
  5. -- = Not Sampled
  - 6. Highlighted and Bold = above Pollutant Threshold**