



# **INTEGRATED SENTINEL MONITORING REPORT - 2017**



**Environmental  
Protection**

**Bill de Blasio  
Mayor**

**Vincent Sapienza, P.E.  
Commissioner**



June 30, 2018

**Vincent Sapienza, P.E.**  
*Commissioner*

**Pamela Elardo, P.E.**  
*Deputy Commissioner*

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Treatment**  
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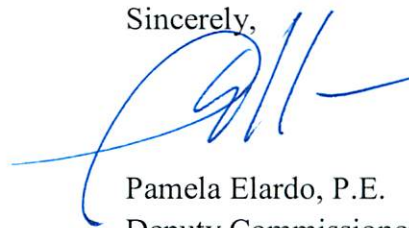
Mr. Robert Elburn, P.E.,  
Regional Water Engineer  
New York State Department of  
Environmental Conservation  
Division of Water - Region II  
47-40 21st Street – 4th Fl  
Long Island City, NY 11101-5407

**Re: 2017 Integrated Sentinel Monitoring Report**

Dear Mr. Elburn:

Pursuant to the State Pollutant Discharge Elimination System permit and in accordance with the section for Untreated Discharges, and the Municipal Separate Storm Sewer System permit section for Illicit Discharge Detection and Elimination, attached is the Department of Environmental Protection's Integrated Sentinel Monitoring report for 2017.

Sincerely,



Pamela Elardo, P.E.  
Deputy Commissioner

JV/ld

cc: Eckels, LaGrotta, Volgende, Lipton, Tam, Villacis, File  
BWSO: Georgelis, Faublas, McColgan, Parikh, Delaney  
BEDC: Mahoney, Garin  
BEPA: Balci

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# INTRODUCTION

The Shoreline Survey Program-Cycle II conducted by the Bureau of Wastewater Treatment's Compliance Monitoring Section (CMS) between 1998 and 2017 has resulted in the identification of 4,406 outfalls including 427 Combined Sewer Overflows (CSO), 375 storm outfalls and other outfalls such as highway drains and non-city owned drains. A total of 412 contaminated discharges representing a flow of 4.38 MGD were identified. Since then, 402 of these contaminated discharges have been abated, representing a flow of 4.35 MGD, of which 264 discharging pipes are city-owned and the remainder, 148, falls under the jurisdiction of NYSDEC. Currently NYCDEP has six (6) contaminated discharge pipes under abatement investigation, or 0.03 MGD, whereas 2 sewer pipes under the jurisdiction of NYSDEC remain to be abated or 0.004 MGD. Therefore, the benefit has been a 99.3 % abatement rate of contaminated dry weather discharges.

As an enhancement and modification of the two-year cycle of surveying the City's coastal waters under the Shoreline Survey Program, a **"SENTINEL MONITORING PROGRAM"** was designed, in cooperation with NYSDEC, to monitor specific sampling areas for fecal coliform (a raw sewage indicator) in water bodies throughout New York City. NYCDEP currently performs sentinel monitoring at eighty ambient monitoring stations in accordance with the current SPDES permit Stormwater Management Program. When a survey of the shoreline is performed, all shoreline survey protocols described in the Untreated Discharges Section of the SPDES permit are followed.

The goal of the **Sentinel Monitoring Program** is the periodic monitoring and sampling of ambient stations throughout New York City's harbor. Quarterly fecal coliform sampling is conducted at eighty stations. Sampling is performed after a dry antecedent period of forty eight hours and during various tidal cycles and seasons to ensure statistical integrity. The sampling results are compared to an established baseline. If sampling results are above the baseline trigger limits, NYCDEP aggressively pursues field investigations and surveillance of the adjacent shoreline of such sentinel stations to determine the source and cause of the contamination. Immediate actions are implemented to abate any found illegal discharges

## OPERATIONAL PLAN

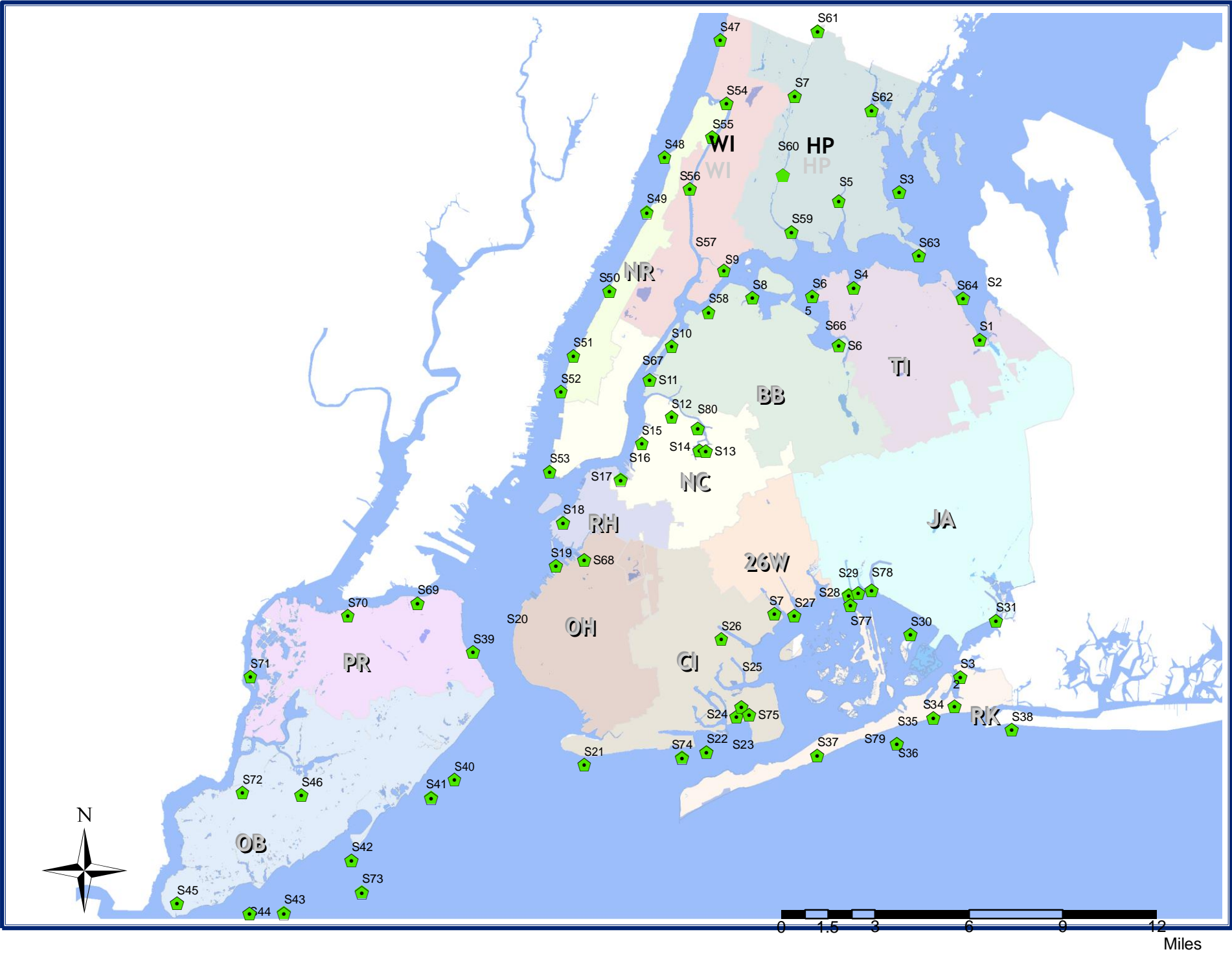
For 2017, an interim baseline of 200 fecal/100 mL, based on NYSDEC water quality standards, was assigned to all of the 80 sentinel stations. A mini-shoreline investigation was conducted for any exceedance of this baseline. In the 4<sup>th</sup> quarter, DEP started collecting Enterococcus samples at all 80 sentinel stations in order to have a better understanding of the condition of the waters. However, DEP will continue to use fecal coliform as the trigger for the mini-shoreline survey as required by the SPDES Permit and MS4 Permit Part IV. D. 5.

Each site is identified by a station number. Its location in the water is pinpointed using latitude and longitude coordinates from a Global Positioning System Navigator. Details of the **Sentinel Monitoring Program**, such as coordinate system, site map, analytical result, and baseline are described through the following tables, graphs and maps.

## SURVEY STATISTICS

Fecal Coliform Baseline FC/100 ml	Number of Stations	Percentage (%) of Stations
1 – 200	64	80
> 200	16	20

New York Harbor Sentinel Monitoring Stations



## Sampling Stations

Station ID	Location	Latitude	Longitude
S1	Alley Creek & Northern Boulevard (Northside)	40° 46' 07"	73° 45' 26"
S2	Entrance to Udall's Cove at Village Park	40° 47' 01"	73° 45' 06"
S3	Eastchester Bay & Lafayette Avenue	40° 50' 05"	73° 48' 21"
S4	Entrance to Powell's Cove	40° 47' 40"	73° 50' 01"
S5	Westchester Creek north of Unionport Bridge	40° 49' 43"	73° 50' 35"
S6	Entrance to Flushing River w/o Whitestone Expressway	40° 45' 54"	73° 50' 34"
S7	Bronx River South of East Gun Hill Road	40° 52' 38"	73° 52' 10"
S8	Entrance to Steinway Creek	40° 47' 01"	73° 53' 44"
S9	Entrance to Bronx Kills n/o Randall's Island Park	40° 47' 44"	73° 54' 46"
S10	Hallets Cove and 30th Drive	40° 46' 14"	73° 56' 44"
S11	East Channel & Entrance to 45th Avenue Canal	40° 44' 59"	73° 57' 29"
S12	Entrance to Dutch Kills South of LIRR Bridge	40° 44' 17"	73° 56' 44"
S13	Newtown Creek n/o Grand Avenue Bridge	40° 43' 02"	73° 55' 26"
S14	Entrance to English Kills at Scott street	40° 43' 04"	73° 55' 41"
S15	Entrance to Bushwick Inlet	40° 43' 32"	73° 57' 50"
S16	Entrance to Wallabout Channel	40° 42' 30"	73° 58' 16"
S17	Entrance to Brooklyn Navy Yard	40° 42' 14"	73° 58' 32"
S18	Entrance to Atlantic Basin	40° 40' 59"	73° 00' 41"
S19	Entrance to Erie Basin at Dwight Street	40° 40' 09"	73° 00' 56"
S20	Upper New York Bay & 79th street	40° 37' 56"	73° 02' 44"
S21	Entrance to Coney Island Creek at Kaiser Playground	40° 34' 53"	73° 59' 56"
S22	Shell Bank Creek & Lois Avenue	40° 35' 07"	73° 55' 24"
S23	Gerritsen Inlet at Dead Horse Bay	40° 34' 57"	73° 54' 26"
S24	Mill Basin & Indiana Place	40° 36' 14"	73° 54' 19"
S25	Entrance to East Mill Basin at Basset Street	40° 36' 30"	73° 54' 07"
S26	Paerdegat Basin & Avenue K Marina	40° 37' 48"	73° 54' 54"
S27	Entrance to Hendrix Creek southeast of Belt Parkway	40° 38' 26"	73° 52' 12"

*Fecal result (MF) = Count / 100mL*

## Sampling Stations

Station ID	Location	Latitude	Longitude
S28	Entrance to Shellbank Basin at 165th Avenue	40° 38' 59"	73° 50' 13"
S29	Entrance to Hawtree Basin at 164th Avenue	40° 39' 02"	73° 49' 52"
S30	Grassy Bay at South Runway 7-JFK Airport	40° 37' 55"	73° 47' 59"
S31	Entrance to Thurston Basin	40° 38' 18"	73° 44' 52"
S32	Entrance to Mott Basin at Breeze Place	40° 36' 53"	73° 46' 11"
S33	Entrance to Norton Basin at Dunbar Street	40° 36' 29"	73° 46' 21"
S34	Entrance to Sommerville Basin	40° 36' 11"	73° 47' 08"
S35	Entrance to Vernam Basin at Alameda Avenue	40° 35' 44"	73° 48' 18"
S36	Entrance to Barbadoes Basin at Beach 83rd Street	40° 35' 35"	73° 48' 29"
S37	Beach Channel and Beach 131st Street	40° 35' 08"	73° 51' 23"
S38	Bannister Creek & Atlantic Beach Bridge Approach	40° 35' 50"	73° 44' 19"
S39	Upper NY Bay & Navy Homeport (at Union Street)	40° 37' 46"	74° 03' 56"
S40	Lower NY Bay n/o Sand Lane (South Beach)	40° 34' 28"	74° 04' 40"
S41	Lower NY Bay s/o New Dorp Lane (Gateway Park)	40° 33' 42"	74° 05' 28"
S42	Entrance to Great Kills Harbor at Cleveland Avenue	40° 32' 13"	74° 08' 22"
S43	Raritan Bay n/o Huguenot Avenue	40° 31' 01"	74° 10' 48"
S44	Prince's Bay & entrance to Lemon Creek	40° 30' 40"	74° 12' 05"
S45	Arthur Kill & Entrance to Mill Creek	40° 31' 16"	74° 14' 43"
S46	Richmond Creek and Richmond Avenue (Eastside)	40° 33' 59"	74° 10' 12"
S47	Hudson River & W.233rd Street	40° 54' 11"	73° 54' 56"
S48	Hudson River Under George Washington Bridge	40° 51' 04"	73° 56' 58"
S49	Hudson River & W.135th Street	40° 49' 25"	73° 57' 38"
S50	Hudson River & W. 86th Street	40° 47' 34"	73° 58' 59"
S51	Hudson River & W. 38th Street	40° 45' 41"	73° 00' 19"
S52	Hudson River & W. 14th Street	40° 44' 41"	73° 00' 46"
S53	Hudson River & South Cove (The Battery)	40° 42' 26"	73° 01' 10"
S54	Harlem River Under Broadway Bridge	40° 52' 25"	73° 54' 40"

*Fecal result (MF) = Count / 100mL*



## Sampling Stations

Station ID	Location	Latitude	Longitude
S55	Harlem River & Sherman Creek	40° 51' 29"	73° 55' 11"
S56	Harlem River & W. 170th Street	40° 50' 13"	73° 56' 02"
S57	Harlem River n/o Willis Avenue Bridge	40° 48' 13"	73° 55' 49"
S58	East River & 24th Avenue	40° 46' 51"	73° 55' 23"
S59	Bronx River & Randall Avenue	40° 48' 51"	73° 52' 18"
S60	Bronx River & E. 180th Street	40° 50' 32"	73° 52' 37"
S61	Bronx River & E. 241st Street	40° 54' 26"	73° 51' 20"
S62	Hutchinson River & Ash Loop	40° 52' 14"	73° 49' 22"
S63	East River Under The Throggs Neck Bridge	40° 48' 01"	73° 47' 39"
S64	Little Neck Bay & 26th Avenue	40° 46' 56"	73° 46' 03"
S65	East River & 18th Avenue	40° 47' 04"	73° 51' 33"
S66	Flushing Bay & 31st Avenue	40° 46' 10"	73° 51' 04"
S67	East River & E. 51 Street	40° 45' 12"	73° 57' 46"
S68	Gowanus Bay e/o Hamilton Avenue Bridge	40° 40' 20"	73° 59' 53"
S69	Kill Van Kull & Tysen Street	40° 38' 47"	74° 05' 58"
S70	Kill Van Kull w/o Bayonne Bridge	40° 38' 27"	74° 08' 34"
S71	Arthur Kill e/o Prall's Island	40° 36' 59"	74° 12' 06"
S72	Arthur Kill & Fresh Kills	40° 34' 20"	74° 12' 23"
S73	Lower NY Bay e/o Crooke's Point (Gateway Park)	40° 31' 20"	74° 08' 01"
S74	Sheepshead Bay & Nostrand Avenue	40° 34' 58"	73° 56' 19"
S75	Mill Basin e/o Belt Parkway	40° 36' 17"	73° 53' 50"
S76	Fresh Creek Basin & Avenue N	40° 38' 29"	73° 52' 56"
S77	Grassy Bay Under Cross Bay Boulevard Bridge	40° 38' 40"	73° 50' 10"
S78	Bergen Basin & 163rd Avenue	40° 39' 07"	73° 49' 24"
S79	Broad Channel e/o Giant Bar Marsh	40° 35' 21"	73° 49' 30"
S80	Newtown Creek Under Kosciusko Bridge	40° 43' 40"	73° 55' 45"

*Fecal result (MF) = Count / 100mL*



# SHORELINE MONITORING PROGRAM

2017 ANALYTICAL RESULTS

Station ID	Samp1	Samp2	Samp3	Samp4	Samp5	Samp6	Samp7	Samp8	Samp9	Samp10	95% UCL
S1	25	20	144	4	84	32	84	E 20	218	E 2	76
S2	5	20	320	6	199	56	132	< 4	168	E 6	94
S3	4	5	10	6	4	8	< 4	< 4	E 72	< 2	11
S4	18	8	126	4	320	160	E 20	E 24	1,099	E 6	129
S5	15	264	460	120	89	40	E 28	E 36	360	52	169
S6	2,780	1,400	3,100	96	32,000	400	2,800	25,000	62,000	3,500	11,769
S7	1,320	340	810	4	892	310	400	400	240	580	854
S8	8	2	99	3	28	28	E 12	E 20	220	128	58
S9	2	4	135	3	17	44	E 48	< 4	92	E 16	39
S10	5	8	9	22	88	174	E 24	E 28	E 24	E 12	43
S11	96	2	9	3	66	236	< 4	E 8	E 4	E 10	35
S12	22	108	9	19	580	5,400	E 60	E 16	E 28	42	218
S13	3,280	4,000	72	61	1,150	27,000	132	84	5,100	E 18	2,429
S14	380	385	290	216	148,000	101,000	380	E 16	182	420	4,433
S15	8	5	9	19	61	192	E 40	E 12	E 8	E 10	36
S16	25	12	9	4	217	92	E 4	< 4	230	E 12	53
S17	5	8	10	14	50	100	E 24	E 8	E 8	E 8	26
S18	20	4	3	6	25	96	E 40	E 4	E 8	< 2	22
S19	12	2	4	3	33	60	< 4	< 4	E 20	E 10	17
S20	8	4	10	4	44	18	E 4	28	E 16	E 14	19
S21	12	2	90	132	12	390	560	72	E 10	8,100	329
S22	2	4	10	4	4	22	< 4	E 12	E 12	E 4	10
S23	4	4	4	3	28	12	E 4	88	< 4	40	19
S24	10	4	4	4	8	8	< 4	< 4	E 8	E 2	7
S25	2	4	8	4	4	32	< 4	E 4	E 20	E 4	10
S26	164	307	33	8	216	24	188	E 4	490	E 44	174
S27	18	30	6	6	120	4	E 4	< 4	124	E 24	34

Fecal result = FC / 100ml

UCL – Under Confidence Limit



# SHORELINE MONITORING PROGRAM

2017 ANALYTICAL RESULTS

Station ID	Samp1	Samp2	Samp3	Samp4	Samp5	Samp6	Samp7	Samp8	Samp9	Samp10	95% UCL
S28	112	12	4	44	28	56	< 4	< 4	E 20	E 8	33
S29	2	171	22	97	4	32	E 12	< 4	88	< 2	43
S30	25	124	3	30	58	8	< 4	< 4	E 8	E 10	29
S31	136	237	9	64	198	104	E 44	< 4	< 4	E 52	107
S32	2	4	10	4	16	4	< 4	< 4	410	< 2	18
S33	18	5	10	3	20	12	< 4	< 4	E 36	E 20	16
S34	4	4	10	3	16	8	< 4	E 4	2,400	E 2	33
S35	5	2	10	3	28	16	E 4	E 12	E 4	E 12	12
S36	208	2	9	3	144	148	E 4	< 4	92	E 12	57
S37	8	2	10	14	16	16	E 8	< 4	< 4	< 2	11
S38	20	2	18	3	84	8	< 4	E 8	E 16	< 2	17
S39	12	4	10	4	104	10	E 16	E 24	E 48	E 16	28
S40	2	4	18	3	44	10	E 8	< 4	E 4	E 4	11
S41	10	4	10	4	16	4	E 8	< 4	E 12	E 4	9
S42	18	4	4	4	280	4	< 4	< 4	E 8	< 2	17
S43	4	4	10	6	56	4	E 20	< 4	E 4	E 4	12
S44	4	4	10	4	8	8	E 16	< 4	E 4	E 2	8
S45	8	2	54	4	20	4	E 4	E 44	E 60	E 4	22
S46	1,100	340	162	182	330	52	E 24	108	260	E 12	303
S47	2	12	9	148	8	64	230	168	E 4	E 4	60
S48	2	260	36	58	50	10	204	219	E 8	E 10	94
S49	132	219	320	96	28	96	144	152	E 24	44	161
S50	38	92	10	36	1,800	8	144	E 76	E 16	E 30	132
S51	5	80	10	69	96	8	140	E 60	E 28	93	77
S52	10	80	10	80	22	12	E 20	116	E64	E 16	52
S53	4	12	10	50	8	8	E 44	E 64	E 32	E 2	29
S54	4	40	10	108	144	48	196	128	300	E 18	125

Fecal result = FC / 100ml

UCL – Under Confidence Limit



# SHORELINE MONITORING PROGRAM

2017 ANALYTICAL RESULTS

Station ID	Samp1	Samp2	Samp3	Samp4	Samp5	Samp6	Samp7	Samp8	Samp9	Samp10	95% UCL
S55	2	35	45	104	224	96	240	199	520	E 8	188
S56	2	116	153	120	80	84	128	200	530	E 14	197
S57	2	60	10	128	22	100	152	155	E 68	E 14	94
S58	8	4	9	30	6	80	136	E 56	E 120	60	62
S59	25	65	81	17	8	168	310	80	400	E 30	137
S60	900	52	900	47	600	132	124	216	169	74	371
S61	1,920	1,460	2,600	4	4,100	2,000	580	2,400	1,500	3,400	3,713
S62	4,000	2,500	290	28	68	124,000	47,000	224	E 72	E 2	4,197
S63	4	4	250	3	53	24	E8	< 4	420	< 2	48
S64	18	8	108	6	28	20	164	< 4	183	E 100	73
S65	30	10	135	4	500	200	E 52	E 30	6,636	E 36	279
S66	18	96	171	240	4,900	360	108	550	1,018	160	652
S67	8	5	10	11	100	100	E 60	E 26	E 20	40	46
S68	45	12	6	152	370	245	E 60	E 24	218	E 2	130
S69	25	2	27	4	30	20	E 8	< 4	112	E 14	28
S70	8	2	18	4	8	8	E 20	< 4	132	E 4	19
S71	15	2	9	8	12	28	E 20	< 4	286	E 12	31
S72	10	5	27	4	1,099	50	E 24	E 72	187	E 14	94
S73	12	4	10	4	16	4	E 4	< 4	E 4	< 2	8
S74	1,120	132	144	11	16	570	937	E 12	E 4	96	275
S75	15	4	4	36	8	30	E 4	< 4	E 40	< 2	17
S76	188	95	26	19	9,727	64	E 48	116	84	E 6	278
S77	20	58	3	19	19	40	< 4	E 4	E 24	< 2	24
S78	900	560	97	5,350	340	3,100	< 4	E 28	E 4	< 2	651
S79	10	2	10	3	20	48	E 4	< 4	E 4	E 8	13
S80	600	230	18	100	1,000	86,000	88	310	500	E 30	1,348

Fecal result = FC / 100ml

UCL – Under Confidence Limit



**1<sup>st</sup> QUARTER**  
**JANUARY 1 - MARCH 31, 2017**



# SHORELINE MONITORING PROGRAM

2017

## FECAL COLIFORM (MF) SAMPLE RESULTS

1<sup>st</sup> QUARTER

No	Sample Date	Station ID	Fecal Coliform	2017 Baseline
1	1/31/17	S 1	84	200
2	1/31/17	S 2	132	200
3	1/31/17	S 3	< 4	200
4	1/31/17	S 4	E 20	200
5	2/28/17	S 5	E 28	200
6	1/31/17	S 6	<b>*2,800</b>	200
7	2/23/17	S 7	<b>*400</b>	200
8	1/31/17	S 8	E 12	200
9	2/28/17	S 9	E 48	200
10	1/5/17	S 10	E 24	200
11	1/5/17	S 11	< 4	200
12	1/5/17	S 12	E 60	200
13	1/5/17	S 13	132	200
14	1/5/17	S 14	<b>*380</b>	200
15	1/5/17	S 15	E 40	200
16	1/5/17	S 16	E 4	200
17	1/5/17	S 17	E 24	200
18	1/5/17	S 18	E 40	200
19	1/5/17	S 19	< 4	200
20	2/22/17	S 20	E 4	200
21	2/22/17	S 21	<b>*560</b>	200
22	2/22/17	S 22	< 4	200
23	2/22/17	S 23	E 4	200
24	2/22/17	S 24	< 4	200
25	2/22/17	S 25	< 4	200
26	2/22/17	S 26	188	200
27	2/22/17	S 27	E 4	200
28	2/21/17	S 28	< 4	200
29	2/21/17	S 29	E 12	200
30	2/21/17	S 30	< 4	200
31	2/21/17	S 31	E 44	200
32	2/21/17	S 32	< 4	200
33	2/21/17	S 33	< 4	200
34	2/21/17	S 34	< 4	200
35	2/21/17	S 35	E 4	200
36	2/21/17	S 36	E 4	200
37	2/21/17	S 37	E 8	200
38	2/28/17	S 38	< 4	200
39	1/30/17	S 39	E 16	200
40	1/30/17	S 40	E 8	200

\* Fecal Coliform Exceedance



# SHORELINE MONITORING PROGRAM

2017

## FECAL COLIFORM (MF) SAMPLE RESULTS

1<sup>st</sup> QUARTER

No	Sample Date	Station ID	Fecal Coliform	2017 Baseline
41	1/30/17	S 41	E 8	200
42	1/30/17	S 42	< 4	200
43	1/30/17	S 43	E 20	200
44	1/30/17	S 44	E 16	200
45	1/30/17	S 45	E 4	200
46	2/28/17	S 46	E 24	200
47	2/15/17	S 47	<b>*230</b>	200
48	2/15/17	S 48	<b>*204</b>	200
49	2/15/17	S 49	144	200
50	2/15/17	S 50	144	200
51	2/15/17	S 51	140	200
52	2/15/17	S 52	E 20	200
53	2/15/17	S 53	E 44	200
54	2/15/17	S 54	196	200
55	2/15/17	S 55	240	200
56	2/15/17	S 56	128	200
57	2/15/17	S 57	152	200
58	2/15/17	S 58	136	200
59	2/28/17	S 59	<b>*310</b>	200
60	2/23/17	S 60	124	200
61	2/23/17	S 61	<b>*580</b>	200
62	2/23/17	S 62	<b>*47,000</b>	200
63	1/31/17	S 63	E8	200
64	1/31/17	S 64	164	200
65	1/31/17	S 65	E 52	200
66	1/31/17	S 66	108	200
67	1/5/17	S 67	E 60	200
68	1/5/17	S 68	E 60	200
69	1/30/17	S 69	E 8	200
70	1/30/17	S 70	E 20	200
71	1/30/17	S 71	E 20	200
72	1/30/17	S 72	E 24	200
73	1/30/17	S 73	E 4	200
74	2/22/17	S 74	<b>*937</b>	200
75	2/22/17	S 75	E 4	200
76	2/22/17	S 76	E 48	200
77	2/21/17	S 77	< 4	200
78	2/21/17	S 78	< 4	200
79	2/21/17	S 79	E 4	200
80	1/5/17	S 80	88	200

*\* Fecal Coliform Exceedance*

## **WEATHER REPORT**

The first quarter monitoring and sampling of ambient sampling stations began on January 01, and ended on March 31, 2017. During this quarter, all eighty sentinel stations were sampled. During this quarter a total of 10.41 inches of precipitation fell.

## **MINI-SHORELINE SURVEY RESULTS**

### **S-6: ENTRANCE TO FLUSHING RIVER, W/O WHITESTONE EXPWY**

A mini-shoreline survey was performed in mid-February. The investigation included the shoreline of the Flushing River between Roosevelt Avenue and 31<sup>st</sup> Road. No discharge was observed.

### **S-7: BRONX RIVER, SOUTH OF EAST GUN HILL ROAD**

A mini-shoreline survey was conducted in mid-March. The survey targeted all the outfalls on both sides of the Bronx River, starting at East Gun Hill Road and proceeded northward to the Westchester County border. Two (2) outfalls with highly elevated fecal coliform levels, originating from Westchester County were identified to be the source of exceedance at the sentinel station. The CMS has notified the NYSDEC of this ongoing problem.

### **S-14: ENTRANCE TO ENGLISH KILLS AT SCOTT STREET**

A mini-shoreline survey was conducted in mid-February. The survey began at the entrance to English Kills at Scott Street, and proceeded southward to Rewe Street. No discharge was observed.

### **S-21: ENTRANCE TO CONEY ISLAND CREEK AT KAISER PLAYGROUND**

A mini-shoreline survey was conducted by the beginning of March. The investigation included the Coney Island Creek shoreline, starting from West 32<sup>nd</sup> Street and proceeding to West 20<sup>th</sup> Street. No discharge was observed.

### **S-47: HUDSON RIVER & WEST 233<sup>RD</sup> STREET**

A mini-shoreline survey was performed by the beginning of March. The survey started from West 231<sup>st</sup> Street, and proceeded north along the Hudson River to West 247<sup>th</sup> Street & Palisade Avenue. No discharge was observed.

### **S-48: HUDSON RIVER, UNDER THE GEORGE WASHINGTON BRIDGE**

A mini-shoreline survey of the Hudson River, between West 173<sup>rd</sup> Street and 183<sup>rd</sup> Street was conducted by the beginning of March. No discharge was observed.

### **S-55: HARLEM RIVER & SHERMAN CREEK**

A mini-shoreline survey was performed by the end of February. The survey began from West 201<sup>st</sup> Street and proceeded south to West 189<sup>th</sup> Street. No discharge was observed.



**S-59: BRONX RIVER & RANDALL AVENUE**

A mini-shoreline survey of the shoreline was conducted in mid-March. The area inspected started at the Bronx River and Randall Avenue and preceded north to the Bruckner Expressway. No discharge was observed.

**S-61: BRONX RIVER & E. 241<sup>ST</sup> STREET**

A mini-shoreline survey was performed in mid-March. The investigation covered both sides of Bronx River between East 241<sup>st</sup> Street and East 243<sup>rd</sup> Street. No discharge was observed.

**S-62: HUTCHINSON RIVER & ASH LOOP**

A mini-shoreline survey was performed in mid-March. The investigation included the area along the Hutchinson River near Coop City in the Bronx. No discharge was observed

**S-74: SHEEPSHEAD BAY & NOSTRAND AVENUE**

A mini-shoreline survey was conducted by the beginning of March. The inspection started at Brigham Street and proceeded west to Kensington Street. No discharge was observed.

**DRY WEATHER DISCHARGE****CI-641, CONEY ISLAND**

As part on an ongoing investigation to identify the source(s) of elevated levels of fecal coliform in Coney Island Creek, CMS identified the following two (2) houses as sources of contamination.

Address	Date of Investigation	Date Closed	Comments
2561 West Street Brooklyn, NY	10/08/2016	01/03/2017	
2565 West Street Brooklyn, NY	10/26/2016	01/03/2017	

As a result, Commissioner's Orders were issued to both homeowners. Consequently, the illegal connections were removed and the case was, therefore, closed as of January 3, 2017. Please refer to item Number 5445

**BB-008, 108<sup>th</sup> STREET & 37<sup>th</sup> AVENUE**

The investigation to identify the source of the dry weather discharge at the outfall is ongoing. This is a tidally impacted outfall. The Bureau of Environmental Design and Construction (BEDC) has begun a project for modifying weirs in the regulators that discharge to BB-008, to optimize CSO capture. The CMS personnel will continue investigating the area to identify any other illegal connections to storm sewers tributary to the BB-008 outfall. Please refer to Item Number 3687.

#### **CI-664, W. 15<sup>th</sup> STREET & CONEY ISLAND CREEK**

The investigation to determine source(s) of contaminated dry-weather discharge from CI-664 is still ongoing. Since the New York City Department of Design and Construction is currently constructing new storm sewers in the area, the investigation is impeded, but CMS personnel will continue investigating the area for any other illegal connections. Please refer to Item Number 3621.

#### **HP-010 & BRONX RIVER**

The investigation to abate the source(s) of contaminated dry-weather discharge from HP-010 is still ongoing. The CMS has referred the case to the Bureau of Water and Sewer Operations (BWSO) to remove the sources of illegal discharge from the sanitary sewer to the storm sewer. Please refer to Item Number 3374.

#### **437 NORTHFIELD AVENUE, STATEN ISLAND**

In response to a request from the NYSDEC regarding a possible dry weather discharge at 437 Northfield Ave, Staten Island, CMS personnel performed a joint investigation with NYSDEC personnel. A dye test confirmed that the house was illicitly discharging to the Goethals Pond.

As a result, CMS personnel issued a Commissioner's Order to the homeowner, in addition to an NOV issued by the NYSDEC, to cease the sanitary wastewater discharge from the septic system to the Goethals Pond. Since it was a direct discharge, the case was transferred to NYSDEC.

#### **433 NORTHFIELD AVENUE & 39 DOLSON PLACE, STATEN ISLAND**

In response to a request from NYSDEC regarding a possible dry weather discharge from the houses located at 433 Northfield Avenue and 39 Dolson Place, Staten Island, CMS personnel performed a joint investigation with NYSDEC personnel. Dye was introduced into bathrooms at both houses, but no dye was observed discharging to the nearby wetland or pond. This matter was therefore closed.

#### **TI-024 / 61<sup>st</sup> AVENUE/ALLEY POND**

As part of an ongoing investigation to identify any improper storm sewer connections tributary to the outfall TI-024, CMS personnel dye tested two hundred and twelve (231) establishments. The following two hundred (219) were found to be properly connected to the sanitary sewer:

240-29 67th Ave	240-39 67th Ave	240-57 67th Ave	240-53 67th Ave
240-55 67th Ave	240-41 67th Ave	240-67 67th Ave	240-78 67th Ave
240-70 67th Ave	240-30 67th Ave	240-11 67th Ave	240-18 67th Ave
240-16 67th Ave	240-64 67th Ave	239-45 66th Ave	239-41 66th Ave
239-29 66th Ave	239-31 66th Ave	239-51 66th Ave	239-38 66th Ave
239-25 66th Ave	240-31 67th Ave	240-36 67th Ave	240-35 67th Ave
240-59 67th Ave	240-63 67th Ave	240-83 67th Ave	240-75 67th Ave
240-4 7 67th Ave	240-60 67th Ave	240-73 67th Ave	240-19 67th Ave
240-15 67th Ave	240-01 67th Ave	240-06 67th Ave	240-66 67th Ave
239-35 66th Ave	239-33 66th Ave	240-25 67th Ave	239-53 66th Ave
239-32 66th Ave	239-36 66th Ave	240-33 67th Ave	240-28 67th Ave

240-37 67th Ave	240-34 67th Ave	240-61 67th Ave	240-72 67th Ave
240-52 67th Ave	240-76 671h Ave	240-81 67th Ave	240-17 67th Ave
240-42 671h Ave	240-21 67th Ave	240-12 671h Ave	240-07 67th Ave
240-49 67th Ave	239-43 66th Ave	239-42 66th Ave	239-55 66th Ave
239-44 66th Ave	239-27 66th Ave	240-05 671h Ave	240-45 67th Ave
240-43 67th Ave	240-27 67th Ave	240-51 67th Ave	240-69 67th Ave
240-65 67th Ave	240-79 67th Ave	240-48 67th Ave	240-58 67th Ave
240-40 67th Ave	240-20 67th Ave	240-22 67th Ave	240-46 67th Ave
239-47 66th Ave	240-03 67th Ave	239-39 66th Ave	239-37 66th Ave
239-49 66th Ave	239-40 66th Ave	239-19 66th Ave	239-54 66th Ave
240-12 66th Ave	239-50 66th Ave	239-46 66th Ave	240-28 66th Ave
239-30 66th Ave	239-56 661h Ave	240-02 66th Ave	240-14 66th Ave
240-71 6th Ave	240-16 661h Ave	240-20 66th Ave	240-07 66th Ave
240-17 66th Ave	240-04 661h Ave	240-06 661h Ave	239-48 65th Ave
239-52 65th Ave	239-54 651h Ave	239-29 65th Ave	239-35 65th Ave
239-33 65th Ave	239-37 651h Ave	240-33 65th Ave	239-49 65th Ave
240-37 66th Ave	239-47 65th Ave	239-51 65th Ave	239-40 65th Ave
239-53 65th Ave	239-57 65th Ave	239-30 65th Ave	239-50 65th Ave
239-59 65th Ave	239-20 651h Ave	239-19 65th Ave	239-22 651h Ave
239-21 65th Ave	239-26 651h Ave	239-27 65th Ave	239-46 65th Ave
239-25 65th Ave	239-31 651h Ave	239-28 65th Ave	239-45 65th Ave
239-39 65th Ave	239-36 65th Ave	239-61 65th Ave	240-15 65th Ave
240-03 65th Ave	240-01 651h Ave	239-44 65th Ave	239-41 65th Ave
239-32 65th Ave	239-23 651h Ave	240-02 65th Ave	240-12 651h Ave
240-18 65th Ave	240-28 651h Ave	239-43 65th Ave	240-54 67th Ave
239-17 65th Ave	239-34 651h Ave	240-04 67th Ave	240-08 67th Ave
239-15 65th Ave	240-17 651h Ave	240-09 65th Ave	240-16 65th Ave
240-23 65th Ave	240-30 651h Ave	240-09 67th Ave	239-42 65th Ave
239-55 65th Ave	240-10 671h Ave	240-14 67th Ave	240-38 65th Ave
240-21 65th Ave	240-25 651h Ave	240-27 65th Ave	240-11 65th Ave
240-03 66th Ave	240-05 66th Ave	240-34 66th Ave	240-36 66th Ave
240-19 66th Ave	240-09 66th Ave	239-52 66th Ave	239-24 65th Ave
240-46 65th Ave	240-52 651h Ave	240-56 65th Ave	240-58 65th Ave
240-15 66th Ave	240-18 661h Ave	240-21 66th Ave	240-33 66th Ave
240-46 66th Ave	240-32 661h Ave	240-45 66th Ave	240-53 66th Ave
240-38 66th Ave	240-41 66th Ave	240-10 66th Ave	240-08 66th Ave
240-30 66th Ave	240-52 66th Ave	240-24 66th Ave	240-54 66th Ave
240-56 66th Ave	239-24 661h Ave	239-26 66th Ave	240-37 65th Ave
240-35 65th Ave	240-31 65th Ave	240-32 65th Ave	240-39 65th Ave
240-22 65th Ave	240-24 651h Ave	240-29 65th Ave	240-06 651h Ave
240-05 65th Ave	240-48 651h Ave	240-50 65th Ave	240-40 65th Ave
240-27 66th Ave	240-40 66th Ave	240-47 661h Ave	240-42 65th Ave
240-44 65th Ave	259-07 57th Ave	259-15 57th Ave	57-03 Little Neck Pkwy
259-11 57th Ave	259-19 57th Ave	259-03 57th Ave	

The remaining twelve (12) establishments, as follows, were found to have improper connection to the storm sewer, and were issued Commissioner's Orders.

As a result, Commissioner's Orders (CO) were issued to all the homeowners. All homeowners complied with the Commissioner's Order. CMS personnel will continue investigating the area to identify any other illegal connections to storm sewers tributary to the TI-024 outfall. Please refer to item Number 4558.

Address	Date of Investigation	Date Closed	Comments
240-81 67 <sup>th</sup> Ave	02/11/2009	03/10/2009	
240-21 67 <sup>th</sup> Ave	02/27/2009	05/12/2009	
239-33 66 <sup>th</sup> Ave	07/02/2009	11/20/2009	
240-25 67 <sup>th</sup> Ave	07/13/2009	10/22/2009	
239-49 66 <sup>th</sup> Ave	07/06/2009	09/18/2009	
239-40 66 <sup>th</sup> Ave	09/25/2009	12/03/2009	
239-38 66 <sup>th</sup> Ave	07/02/2009	11/20/2009	
239-32 66 <sup>th</sup> Ave	09/25/2009	12/22/2009	
239-39 65 <sup>th</sup> Ave	05/20/2010	09/08/2010	
240-09 67 <sup>th</sup> Ave	09/13/2010	11/18/2010	
240-10 67 <sup>th</sup> Ave	05/10/2012	11/12/2014	
259-07 57 <sup>th</sup> Ave	04/11/2014	08/07/2014	



**2<sup>nd</sup> QUARTER**  
**APRIL 1 - JUNE 30, 2017**



# SHORELINE MONITORING PROGRAM

2017

## FECAL COLIFORM (MF) SAMPLE RESULTS

2<sup>nd</sup> QUARTER

No	Sample Date	Station ID	Fecal Coliform	2017 Baseline
1	4/10/17	S 1	E 20	200
2	4/10/17	S 2	< 4	200
3	4/10/17	S 3	< 4	200
4	4/10/17	S 4	E 24	200
5	4/10/17	S 5	E 36	200
6	4/10/17	S 6	<b>*25,000</b>	200
7	6/9/17	S 7	<b>*400</b>	200
8	4/10/17	S 8	E 20	200
9	4/10/17	S 9	< 4	200
10	4/19/17	S 10	E 28	200
11	4/19/17	S 11	E 8	200
12	4/19/17	S 12	E 16	200
13	4/19/17	S 13	84	200
14	4/19/17	S 14	E 16	200
15	4/19/17	S 15	E 12	200
16	4/19/17	S 16	< 4	200
17	4/19/17	S 17	E 8	200
18	4/19/17	S 18	E 4	200
19	4/19/17	S 19	< 4	200
20	5/4/17	S 20	28	200
21	5/4/17	S 21	72	200
22	5/4/17	S 22	E 12	200
23	5/4/17	S 23	88	200
24	4/12/17	S 24	< 4	200
25	4/12/17	S 25	E 4	200
26	4/12/17	S 26	E 4	200
27	4/12/17	S 27	< 4	200
28	4/11/17	S 28	< 4	200
29	4/11/17	S 29	< 4	200
30	4/11/17	S 30	< 4	200
31	4/11/17	S 31	< 4	200
32	4/11/17	S 32	< 4	200
33	4/11/17	S 33	< 4	200
34	4/11/17	S 34	E 4	200
35	4/11/17	S 35	E 12	200
36	4/11/17	S 36	< 4	200
37	4/11/17	S 37	< 4	200
38	6/9/17	S 38	E 8	200
39	4/3/17	S 39	E 24	200
40	4/3/17	S 40	< 4	200

\* Fecal Coliform Exceedance



# SHORELINE MONITORING PROGRAM

2017

## FECAL COLIFORM (MF) SAMPLE RESULTS

2<sup>nd</sup> QUARTER

No	Sample Date	Station ID	Fecal Coliform	2017 Baseline
41	4/3/17	S 41	< 4	200
42	4/3/17	S 42	< 4	200
43	4/3/17	S 43	< 4	200
44	4/3/17	S 44	< 4	200
45	4/3/17	S 45	E 44	200
46	6/9/17	S 46	108	200
47	4/24/17	S 47	168	200
48	4/24/17	S 48	<b>*219</b>	200
49	4/24/17	S 49	152	200
50	4/24/17	S 50	E 76	200
51	4/24/17	S 51	E 60	200
52	4/24/17	S 52	116	200
53	4/24/17	S 53	E 64	200
54	4/24/17	S 54	128	200
55	4/24/17	S 55	<b>*199</b>	200
56	4/24/17	S 56	<b>*200</b>	200
57	4/24/17	S 57	155	200
58	4/24/17	S 58	E 56	200
59	4/10/17	S 59	80	200
60	6/9/17	S 60	<b>*216</b>	200
61	6/9/17	S 61	<b>*2,400</b>	200
62	6/9/17	S 62	<b>*224</b>	200
63	4/10/17	S 63	< 4	200
64	4/10/17	S 64	< 4	200
65	4/10/17	S 65	E 30	200
66	4/10/17	S 66	<b>*550</b>	200
67	4/19/17	S 67	E 26	200
68	4/19/17	S 68	E 24	200
69	4/3/17	S 69	< 4	200
70	4/3/17	S 70	< 4	200
71	4/3/17	S 71	< 4	200
72	4/3/17	S 72	E 72	200
73	4/3/17	S 73	< 4	200
74	5/4/17	S 74	E 12	200
75	4/12/17	S 75	< 4	200
76	4/12/17	S 76	116	200
77	4/11/17	S 77	E 4	200
78	4/11/17	S 78	E 28	200
79	4/11/17	S 79	< 4	200
80	4/19/17	S 80	<b>*310</b>	200

\* Fecal Coliform Exceedance

## **WEATHER REPORT**

The second quarter monitoring and sampling of ambient sampling stations began on April 01 and ended on June 30, 2017. During this quarter, all eighty sentinel stations were sampled. During this quarter a total of 14.46 inches of precipitation fell.

## **MINI-SHORELINE SURVEY RESULTS**

### **S-6: ENTRANCE TO FLUSHING RIVER, W/O WHITESTONE EXPWY**

A mini-shoreline survey was performed by the beginning of May. The investigation included Flushing River shoreline between Roosevelt Avenue and 31<sup>st</sup> Road. No discharge was observed.

### **S-7: BRONX RIVER, SOUTH OF EAST GUN HILL ROAD**

A mini-shoreline survey was conducted in mid-June. The survey targeted all the outfalls on both east and west side of the Bronx River, starting north of East Gun Hill Road and proceeding northward to the Westchester County border. Two (2) outfalls with highly elevated fecal coli form level, originating from Westchester County were identified to be the sources of exceedance at the sentinel station. The CMS has notified the NYSDEC of this ongoing problem.

### **S-48: HUDSON RIVER, UNDER THE GEORGE WASHINGTON BRIDGE**

A mini-shoreline survey of the Hudson River, between West 173<sup>rd</sup> Street and 183<sup>rd</sup> Street was conducted in mid-May. No discharge was observed.

### **S-56: HARLEM RIVER & WEST 170<sup>TH</sup> STREET**

A mini-shoreline survey was conducted by end of June. All the outfalls on both sides of the Harlem River, starting from West 170<sup>th</sup> street, proceeding northward to the George Washington Bridge, were included in the survey. No discharge was observed.

### **S-60: BRONX RIVER & EAST 180<sup>TH</sup> STREET**

A mini-shoreline survey was performed in mid-June. The survey covered Bronx River shoreline, starting from East 180<sup>th</sup> Street and proceeding northward beyond the Bronx Zoo. No discharge was observed.

### **S-61: BRONX RIVER & E. 241<sup>ST</sup> STREET**

A mini-shoreline survey was performed in mid-June. The investigation covered the Bronx River shoreline East 241<sup>st</sup> Street to East 243<sup>rd</sup> Street. No discharge was observed.

### **S-62: HUTCHINSON RIVER & ASH LOOP**

A mini-shoreline survey was performed in mid-June. The investigation included the area along the Hutchinson River near Coop City in the Bronx. No discharge was observed.



#### **S-66: FLUSHING BAY & 31<sup>ST</sup> AVENUE**

A mini-shoreline survey was performed by the beginning of May. Flushing Bay shoreline between 123<sup>rd</sup> Street and 28<sup>th</sup> Avenue was the targeted area for the survey. No discharge was observed.

#### **S-80: NEWTOWN CREEK UNDER KOSCIUSKO BRIDGE**

A mini-shoreline survey was conducted by the beginning of May. The survey began from Meeker Avenue & Newtown Creek, and proceeded south going under the Kosciusko Bridge to Anthony Street. No discharge was observed.

### **DRY WEATHER DISCHARGES**

#### **NCB-635, COUNTRYWIDE STONE, BROOKLYN**

In response to a request from a private citizen regarding an illegal discharge at the outfall designated as NCB-635, CMS personnel began an investigation. During the investigation, an establishment, Countrywide Stone (210 *Varick Avenue, Brooklyn*) was identified as the source of the dry weather discharge. The establishment had a holding pit for its process wastewater, which was overflowing to a nearby floor drain. A dye test revealed that the run-off entered a storm sewer tributary to the outfall, NCB-635.

As a result, a Commissioner's Order and a Notice of Violation were issued to the establishment owner to cease discharging the process wastewater to the storm sewer. The establishment promptly removed the illegal connection. This case was therefore closed as of June 22, 2017.

#### **BROOKLYN NAVY YARD**

In response to a request from NYSDEC regarding a possible dry weather discharge from the establishment located at 299 Sands St, Brooklyn Navy Yard, CMS personnel performed a joint investigation with NYSDEC personnel. Dye was introduced to a sink, floor drain and a bathroom in the premises, but dye was observed in a private sewer. Due to the nature of the discharge, the case was transferred to NYSDEC.

#### **RH-038 DOUGLASS STREET**

As part of an ongoing investigation to abate the source(s) of contamination to Gowanus Bay, CMS personnel assisted NYCDEC personnel in inspecting the establishment Vigilante Plumbing, located at 195 Douglass Street.

The establishment was dye tested to insure that it was not discharging its sanitary waste to the bay, and that it was in compliance with an order issued in 2011. A dye test confirmed that the company was in compliance. In addition, the company submitted an invoice for emptying out the septic tank. This case is therefore closed.

**NCB – 082 – 99 SCOTT AVE**

In response to a request from the BWSO to dye-test a new establishment, Bushwick 10 LLC, at 99 Scott Avenue, for issuing a connection permit, CMS conducted a dye-test. The test, however, indicated that the establishment was connected to a storm sewer tributary to NCB-083.

As a result, a Commissioner's Order was issued to disconnect the illegal connection to the storm sewer and reconnect it to the sanitary sewer fronting the property. The BWSO was immediately notified of the illegal connection to determine further course of action.

**3<sup>rd</sup> QUARTER**  
**JULY 1 - SEPTEMBER 30, 2017**



# SHORELINE MONITORING PROGRAM

2017

## FECAL COLIFORM (MF) SAMPLE RESULTS

3<sup>rd</sup> QUARTER

No	Sample Date	Station ID	Fecal Coliform	2017 Baseline
1	7/26/17	S 1	<b>*218</b>	200
2	7/26/17	S 2	168	200
3	7/26/17	S 3	E 72	200
4	7/26/17	S 4	<b>*1,099</b>	200
5	7/26/17	S 5	<b>*360</b>	200
6	7/26/17	S 6	<b>*62,000</b>	200
7	7/20/17	S 7	<b>*240</b>	200
8	7/27/17	S 8	<b>*220</b>	200
9	7/27/17	S 9	92	200
10	7/13/17	S 10	E 24	200
11	7/13/17	S 11	E 4	200
12	7/13/17	S 12	E 28	200
13	7/13/17	S 13	<b>*5,100</b>	200
14	7/13/17	S 14	182	200
15	7/13/17	S 15	E 8	200
16	7/13/17	S 16	<b>*230</b>	200
17	7/13/17	S 17	E 8	200
18	7/13/17	S 18	E 8	200
19	7/13/17	S 19	E 20	200
20	7/19/17	S 20	E 16	200
21	7/19/17	S 21	E 10	200
22	7/19/17	S 22	E 12	200
23	7/19/17	S 23	< 4	200
24	8/2/17	S 24	E 8	200
25	8/2/17	S 25	E 20	200
26	7/19/17	S 26	<b>*490</b>	200
27	7/19/17	S 27	124	200
28	7/18/17	S 28	E 20	200
29	7/19/17	S 29	88	200
30	7/18/17	S 30	E 8	200
31	7/18/17	S 31	< 4	200
32	7/18/17	S 32	<b>*410</b>	200
33	7/19/17	S 33	E 36	200
34	7/18/17	S 34	<b>*2,400</b>	200
35	7/18/17	S 35	E 4	200
36	7/18/17	S 36	92	200
37	7/18/17	S 37	< 4	200
38	7/5/17	S 38	E 16	200
39	7/10/17	S 39	E 48	200
40	7/10/17	S 40	E 4	200

\* Fecal Coliform Exceedance



# SHORELINE MONITORING PROGRAM

2017

## FECAL COLIFORM (MF) SAMPLE RESULTS

3<sup>rd</sup> QUARTER

No	Sample Date	Station ID	Fecal Coliform	2017 Baseline
41	7/10/17	S 41	E 12	200
42	7/10/17	S 42	E 8	200
43	7/10/17	S 43	E 4	200
44	7/10/17	S 44	E 4	200
45	7/10/17	S 45	E 60	200
46	7/5/17	S 46	<b>*260</b>	200
47	7/17/17	S 47	E 4	200
48	7/17/17	S 48	E 8	200
49	7/17/17	S 49	E 24	200
50	7/17/17	S 50	E 16	200
51	7/17/17	S 51	E 28	200
52	7/17/17	S 52	E64	200
53	7/17/17	S 53	E 32	200
54	7/17/17	S 54	<b>*300</b>	200
55	7/17/17	S 55	<b>*520</b>	200
56	7/17/17	S 56	<b>*530</b>	200
57	7/17/17	S 57	E 68	200
58	7/27/17	S 58	E 120	200
59	7/27/17	S 59	<b>*400</b>	200
60	7/20/17	S 60	169	200
61	7/20/17	S 61	<b>*1,500</b>	200
62	7/20/17	S 62	E 72	200
63	7/26/17	S 63	<b>*420</b>	200
64	7/26/17	S 64	183	200
65	7/26/17	S 65	<b>*6,636</b>	200
66	7/26/17	S 66	<b>*1,018</b>	200
67	7/13/17	S 67	E 20	200
68	7/13/17	S 68	<b>*218</b>	200
69	7/10/17	S 69	112	200
70	7/10/17	S 70	132	200
71	7/10/17	S 71	<b>*286</b>	200
72	7/10/17	S 72	187	200
73	7/10/17	S 73	E 4	200
74	7/19/17	S 74	E 4	200
75	8/2/17	S 75	E 40	200
76	7/19/17	S 76	84	200
77	7/18/17	S 77	E 24	200
78	7/18/17	S 78	E 4	200
79	7/18/17	S 79	E 4	200
80	7/13/17	S 80	<b>*500</b>	200

*\* Fecal Coliform Exceedance*

## **WEATHER REPORT**

The third quarter monitoring and sampling of ambient sampling stations began on July 01 and ended on September 30, 2017. During this quarter, all eighty sentinel stations were sampled. During this quarter a total of 9.44 inches of precipitation fell.

## **MINI-SHORELINE SURVEY RESULTS**

### **S-1: ALLEY CREEK & NORTHERN BOULEVARD**

A mini-shoreline survey was conducted in mid-September. Entrance to the Alley Creek and the surrounding area were surveyed. No discharge was observed.

### **S-4: ENTRANCE TO POWELLS COVE**

A mini-shoreline survey was performed in mid-September. The inspection covered the entire Powell's Cove. No discharge was observed.

### **S-5: WESTCHESTER CREEK, N/O UNIONPORT BRIDGE**

A mini-shoreline survey was conducted in mid-September. The survey included the Westchester Creek shoreline between Waterbury Ave and Lafayette Ave. No discharge was observed.

### **S-6: ENTRANCE TO FLUSHING RIVER, W/O WHITESTONE EXPWY**

A mini-shoreline survey was performed in mid-September. The investigation included the shoreline of the Flushing River between Roosevelt Avenue and 31<sup>st</sup> Road. No discharge was observed.

### **S-7: BRONX RIVER, SOUTH OF EAST GUN HILL ROAD**

A mini-shoreline survey was conducted by end of August. The survey targeted all the outfalls on both sides of the Bronx River, starting north of East Gun Hill Road and proceeding northward to the Westchester County border. Two (2) outfalls with highly elevated fecal coli form levels, originating from Westchester County, were identified as the sources of exceedance at the sentinel station. The CMS notified the NYSDEC of this ongoing problem.

### **S-8: ENTRANCE TO STEINWAY CREEK**

A mini-shoreline survey was conducted by the end of September. The entire area surrounding the Steinway Creek was surveyed. No discharge was observed.

### **S-13: NEWTOWN CREEK NORTH OF GRAND AVENUE**

A mini-shoreline survey was performed by the end of July. The Newtown Creek shoreline between Grand Avenue and 58<sup>th</sup> Street was surveyed. No discharge was observed.

### **S-16: ENTRANCE TO WALLABOUT CHANNEL**

A mini-shoreline survey was performed in mid-September. The area around the entrance to Wallabout Channel Eastward, and continuing to the Kent Avenue was surveyed. No discharge was observed.



**S-26: PAERDEGAT BASIN & AVENUE K**

A mini-shoreline survey was conducted by the beginning of September. The entire Paerdegat Basin was surveyed. No discharge was observed.

**S-32: ENTRANCE TO MOTT BASIN AT BREEZE PLACE**

A mini-shoreline survey was performed by the beginning September. The survey covered the entire shoreline of the Mott Basin. No discharge was observed.

**S-34: ENTRANCE TO SOMERVILLE BASIN**

A mini-shoreline survey of the Somerville Basin was conducted in mid-September. The survey covered the entire shoreline of the basin. No discharge was observed.

**S-46: RICHMOND CREEK & RICHMOND AVENUE**

A mini-shoreline survey was conducted in mid-July. The Investigation covered all of the Richmond Creek. No discharge was observed.

**S-54: HARLEM RIVER, UNDER BROADWAY BRIDGE**

A mini-shoreline survey was performed by the beginning of October. The investigation started from Harlem River & Broadway Bridge and proceeded southward to West 215<sup>th</sup> Street. No discharge was observed.

**S-55: HARLEM RIVER & SHERMAN CREEK**

A mini-shoreline survey was performed by the beginning of October. The survey began from West 201<sup>st</sup> Street and proceeded south to West 189<sup>th</sup> Street. No discharge was observed.

**S-56: HARLEM RIVER & WEST 170<sup>TH</sup> STREET**

A mini-shoreline survey was conducted by the beginning of October. All the outfalls on both sides of the Harlem River starting from West 170<sup>th</sup> street, proceeding northward to the George Washington Bridge were included in the survey. No discharge was observed.

**S-59: BRONX RIVER & RANDALL AVENUE**

A mini-shoreline survey of the shoreline was conducted by the end of August. The area inspected started by the Bronx River and Randall Avenue and preceded north to the Bruckner Expressway. No discharge was observed.

**S-61: BRONX RIVER & E. 241<sup>ST</sup> STREET**

A mini-shoreline survey was performed by the end of August. The investigation covered the shoreline of the Bronx River northward to E. 243<sup>rd</sup> Street. No discharge was observed.

**S-63: EAST RIVER UNDER THE THROGS NECK BRIDGE**

A mini-shoreline survey of the east river under the Throgs Neck Bridge was conducted in mid-September. The survey covered the entire shoreline of the East River. No discharge was observed.

**S-65: EAST RIVER & 18<sup>TH</sup> AVENUE**

A mini-shoreline survey was performed in mid-September. The area inspected included the shoreline of Flushing Bay from 18<sup>th</sup> Avenue northward to 9<sup>th</sup> Avenue. No discharge was observed.

**S-66: FLUSHING BAY & 31<sup>ST</sup> AVENUE**

A mini-shoreline survey was performed in mid-September. Flushing Bay shoreline between 123<sup>rd</sup> Street and 28<sup>th</sup> Avenue was the targeted area for the survey. No discharge was observed.

**S-68: GOWANUS BAY E/O HAMILTON AVENUE BRIDGE**

A mini-shoreline survey was performed by the end of July. The survey covered the area between Columbia Street and 23<sup>rd</sup> Street. No discharge was observed.

**S-71: ARTHUR KILL E/O PRALL'S ISLAND**

A mini-shoreline survey was performed by the beginning August. The area inspected covered the shoreline of Arthur Kill near Meredith Avenue & Spencer Streets, east of Prall's Island. No discharge was observed.

**S-80: NEWTOWN CREEK UNDER KOSCIUSKO BRIDGE**

A mini-shoreline survey was conducted by the end of July. The survey began from Meeker Avenue and Newtown Creek, and proceeded south going under the Kosciusko Bridge to Anthony Street. No discharge was observed.

## DRY WEATHER DISCHARGES

**NC0-077, MASPETH CREEK**

As part of an ongoing investigation to determine the source(s) of contamination to the Maspeth Creek from the outfall NCQ-077, CMS personnel dye tested the establishments, Way Fong LLC, President East Company, and GD Citrus Inc. All three establishments were confirmed to be illegally discharging sanitary waste to Maspeth Creek through a storm sewer. As a result, a Commissioner's Order was issued to each of the establishments. All three cases are still open. Please refer to item Number 5484.

Address	Date of Investigation	Date Closed	Comments
57-29 99 <sup>th</sup> Street	06/30/2017		Under BWSO review
16 Galasso Place	07/31/2017		Under BWSO review
3 Galasso Place	07/06/2017		Under BWSO review

**OH-021 & CONEY ISLAND CREEK**

In response to a referral by a DEP contractor of high fecal count levels in a storm sewer tributary to Coney Island Creek, CMS started an investigation in the area and dye tested fifty-five establishments. The following forty-nine establishments were properly connected to the sanitary sewer:

1816 E 14th Street	1817 E 14th Street	1819 E 14th Street
1821 E 14th Street	1822 E 14th Street	1823 E 14th Street
1825 E 14th Street	1828 E 14th Street	1829 E 14th Street
1830 E 14th Street	1834 E 14th Street	1836 E 14th Street
1546 E 16th Street	1555 E 16th Street	1559 E 16th Street
1560 E 16th Street	1561 E 16th Street	1565 E 16th Street
1569 E 16th Street	1571 E 16th Street	1575 E 16th Street
1577 E 16th Street	1578 E 16th Street	1580 E 16th Street
1581 E 16th Street	1583 E 16th Street	1587 E 16th Street
1588 E 16th Street	1517 E 15th Street	1520 E 15th Street
1519 E 15th Street	1524 E 15th Street	1530 E 15th Street
1531 E 15th Street	1542 E 15th Street	1526 E 15th Street
1521 E 15th Street	1538 E 15th Street	1553 E 15th Street
1558 E 15th Street	1562 E 15th Street	1555 E 15th Street
1563 E 15th Street	1557 E 15th Street	1559 E 15th Street
1568 E 15th Street	1549 E 15th Street	1523 E 15th Street
1525 E 15th Street		

The remaining six establishments, listed below, were improperly connected to a storm sewer tributary to OH-021:

Address	Date of Investigation	Date Closed	Comments
1572 E 16 <sup>th</sup> St, Brooklyn, NY11229	10/25/2017	10/31/2017	
1562 E 16 <sup>th</sup> St, Brooklyn, NY11229	10/26/2017	11/17/2017	
1586 E 16 <sup>th</sup> St, Brooklyn, NY11229	10/27/2017	11/17/2017	
1570 E 16 <sup>th</sup> St, Brooklyn, NY11229	11/20/2017	12/04/2017	
1820 E 14 <sup>th</sup> St., Brooklyn, NY11229	10/27/2017		NOV Issued

As a result, Commissioner's Orders (CO) were issued to all the homeowners. As of December 31, 2017, all of them have complied, except the one located at 1820 East 14th Street. The cases is under legal review. CMS personnel will continue investigating the area to identify any other illegal connections to storm sewers tributary to the OH-021 outfall. Please refer to item Number 5326

**4<sup>th</sup> QUARTER**  
**OCTOBER 1 - DECEMBER 31, 2017**



# SHORELINE MONITORING PROGRAM

2017

## FECAL COLIFORM (MF) SAMPLE RESULTS

4<sup>th</sup> QUARTER

No	Sample Date	Station ID	Fecal Coliform	Enterococci	2017 Baseline
1	10/17/17	S 1	E 2	< 2	200
2	10/17/17	S 2	E 6	< 2	200
3	10/17/17	S 3	< 2	< 2	200
4	10/16/17	S 4	E 6	< 2	200
5	10/17/17	S 5	52	< 2	200
6	10/16/17	S 6	<b>*3,500</b>	E 18	200
7	10/3/17	S 7	<b>*580</b>	<b>220</b>	200
8	10/16/17	S 8	128	E 12	200
9	10/16/17	S 9	E 16	E 2	200
10	10/2/17	S 10	E 12	E 2	200
11	10/2/17	S 11	E 10	E 6	200
12	10/2/17	S 12	42	E 2	200
13	10/2/17	S 13	E 18	< 2	200
14	10/2/17	S 14	<b>*420</b>	E 2	200
15	10/5/17	S 15	E 10	< 2	200
16	10/5/17	S 16	E 12	E 8	200
17	10/5/17	S 17	E 8	< 2	200
18	10/5/17	S 18	< 2	< 2	200
19	10/5/17	S 19	E 10	< 2	200
20	10/5/17	S 20	E 14	E 2	200
21	10/5/17	S 21	<b>*8,100</b>	<b>360</b>	200
22	11/29/17	S 22	E 4	E 2	200
23	11/29/17	S 23	40	< 2	200
24	11/29/17	S 24	E 2	< 2	200
25	11/29/17	S 25	E 4	E 2	200
26	11/29/17	S 26	E 44	E 14	200
27	10/19/17	S 27	E 24	E 6	200
28	10/19/17	S 28	E 8	E 6	200
29	10/19/17	S 29	< 2	E 6	200
30	10/19/17	S 30	E 10	< 2	200
31	10/18/17	S 31	E 52	E 2	200
32	10/18/17	S 32	< 2	< 2	200
33	10/18/17	S 33	E 20	E 4	200
34	10/18/17	S 34	E 2	< 2	200
35	10/18/17	S 35	E 12	< 2	200
36	10/18/17	S 36	E 12	E 4	200
37	10/18/17	S 37	< 2	E 4	200
38	11/27/17	S 38	< 2	< 2	200
39	11/28/17	S 39	E 16	E 4	200
40	11/28/17	S 40	E 4	< 2	200

\* Fecal Coliform Exceedance



# SHORELINE MONITORING PROGRAM

2017

## FECAL COLIFORM (MF) SAMPLE RESULTS

4<sup>th</sup> QUARTER

No	Sample Date	Station ID	Fecal	Enterococci	2017 Baseline
41	11/28/17	S 41	E 4	< 2	200
42	11/28/17	S 42	< 2	< 2	200
43	10/23/17	S 43	E 4	E 4	200
44	10/23/17	S 44	E 2	E 2	200
45	10/23/17	S 45	E 4	E 4	200
46	11/27/17	S 46	E 12	E 8	200
47	10/4/17	S 47	E 4	< 2	200
48	10/4/17	S 48	E 10	E 2	200
49	10/4/17	S 49	44	E18	200
50	10/4/17	S 50	E 30	E 8	200
51	10/4/17	S 51	93	38	200
52	10/4/17	S 52	E 16	< 2	200
53	10/4/17	S 53	E 2	E 2	200
54	10/4/17	S 54	E 18	E 2	200
55	10/4/17	S 55	E 8	< 2	200
56	10/4/17	S 56	E 14	< 2	200
57	10/4/17	S 57	E 14	E 4	200
58	10/2/17	S 58	60	E 10	200
59	10/16/17	S 59	E 30	E 10	200
60	10/3/17	S 60	74	46	200
61	10/3/17	S 61	<b>*3,400</b>	<b>380</b>	200
62	10/3/17	S 62	E 2	E 8	200
63	10/17/17	S 63	< 2	< 2	200
64	10/17/17	S 64	E 100	< 2	200
65	10/16/17	S 65	E 36	E 10	200
66	10/16/17	S 66	160	E 12	200
67	10/2/17	S 67	40	E 2	200
68	10/5/17	S 68	E 2	E 10	200
69	10/23/17	S 69	E 14	E 14	200
70	10/23/17	S 70	E 4	E 4	200
71	10/23/17	S 71	E 12	E 12	200
72	10/23/17	S 72	E 14	E 14	200
73	10/23/17	S 73	< 2	< 2	200
74	11/29/17	S 74	96	E 22	200
75	11/29/17	S 75	< 2	E 4	200
76	10/19/17	S 76	E 6	< 2	200
77	10/19/17	S 77	< 2	< 2	200
78	10/19/17	S 78	< 2	<2	200
79	10/18/17	S 79	E 8	< 2	200
80	10/2/17	S 80	E 30	< 2	200

\* Fecal Coliform Exceedance



## **WEATHER REPORT**

The fourth quarter monitoring and sampling of ambient sampling stations began on October 01 and ended on December 31, 2017. In this quarter, all of the eighty sentinel stations were sampled, and a total of 7.89 inches of precipitation fell.

## **MINI-SHORELINE SURVEY RESULTS**

### **S-6: ENTRANCE TO FLUSHING RIVER, W/O WHITESTONE EXPWY**

A mini-shoreline survey was performed in mid-November. The investigation included the shoreline of the Flushing River between Roosevelt Avenue and 31<sup>st</sup> Road. No discharge was observed.

### **S-7: BRONX RIVER, SOUTH OF EAST GUN HILL ROAD**

A mini-shoreline survey was conducted in mid-November. The survey targeted all the outfalls on both east and west sides of the Bronx River, starting north of East Gun Hill Road and proceeding northward to the Westchester County border. Two (2) outfalls with highly elevated fecal coli form levels, originating from Westchester County were identified to be the sources of exceedance at the sentinel station. The Compliance Monitoring Section has notified the NYSDEC of this ongoing problem.

### **S-14: ENTRANCE TO ENGLISH KILLS AT SCOTT STREET**

A mini-shoreline survey was conducted in mid-November. The survey began at the entrance to English Kills at Scott Street, and proceeded southward to Rewe Street. No discharge was observed.

### **S-21: ENTRANCE TO CONEY ISLAND CREEK AT KAISER PLAYGROUND**

A mini-shoreline survey was conducted in mid-November. The investigation included the shoreline of Coney Island Creek starting from West 32<sup>nd</sup> Street and proceeded east to West 20<sup>th</sup> Street. No discharge was observed.

### **S-61: BRONX RIVER & E. 241<sup>ST</sup> STREET**

A mini-shoreline survey was performed in mid-November. The investigation covered the shoreline of the Bronx River northward to E. 243<sup>rd</sup> Street. No discharge was observed.

## DRY WEATHER DISCHARGES

### **JAM-006, BERGEN BASIN**

As part of an ongoing investigation to identify any illegal connections to storm sewers tributary to the outfall JAM-006, CMS started an investigation in the area and dye-tested twenty-two establishments. The following nineteen properties were found properly connected to the sanitary sewer:

168-04 Linden Blvd	168-20 Linden Blvd	168-02 Linden Blvd
169-04 Linden Blvd	169-06 Linden Blvd	169-12 Linden Blvd
116-53 Fanners Blvd	116-47 Fanners Blvd	116-49 Fanners Blvd
116-51 Fanners Blvd	188-30 Linden Blvd	188-36 Linden Blvd
169-08 Linden Blvd	169-16 Linden Blvd	169-20 Linden Blvd
168-09 Linden Blvd	169-11 Linden Blvd	169-04 Linden Blvd
169-12 Linden Blvd		

The remaining three properties listed below had illegal connections to the storm sewer:

Address	Date of Investigation	Date Closed	Comments
168-14 Linden Blvd	03/07/2017	04/13/2017	
188-34 Linden Blvd	03/24/2017	09/24/2017	
116-45 Farmers Blvd	03/31/2017	11/13/2017	

As a result, Commissioner's Orders (CO) were issued to the property owners, who removed the illegal connections. This case was closed as of November 13, 2017. Please refer to item Number 5468.

### **OH-610 GRAVESEND BAY**

In response to a request from a DEP consultant regarding a dry weather discharge at the outfall designated as OH-610, CMS personnel investigated the area. Since a dry weather discharge was observed at the outfall, the investigation was immediately expanded and CMS dye tested eleven establishments in the area. The following ten were found properly connected to the sanitary sewer:

2050 Cropsey Avenue	2050 Cropsey Avenue
2049 Cropsey Avenue	2074 20th Lane
2072 20th Lane	2076 Cropsey Avenue
2050 21st Drive	2070 20th Lane
2078 Cropsey Avenue	2076 20th Lane

The remaining one, 2058 Cropsey Avenue, Brooklyn (42 residential units) was found improperly discharging to a storm sewer tributary to OH-610. A Commissioner's Order (# 65683) was issued to cease the sanitary wastewater discharge to the storm sewer.

The establishment promptly complied with the Commissioner's Order, and therefore the case was closed as of October 17, 2017. Please refer to item Number 5495.

### **OH-021 & CONEY ISLAND CREEK**

In response to a referral by a DEP contractor, Hazen & Sawyer, of high fecal counts in a storm sewer tributary to Coney Island Creek, CMS started an investigation in the area and dye-tested sixty-three (63) establishments. The following fifty-three (53) were found properly connected to the sanitary sewer:

2668 Coney Island Ave	2658 Coney Island Ave	2650A Coney Island Ave
744 Crawford Ave	752 Crawford Ave	2663 Coney Island Ave
2651 Coney Island Ave	264 7 Coney Island Ave	738 Crawford Ave
2679 Coney Island Ave	2691 Coney Island Ave	2255 85th Street
2225 85th Street	2236 85th Street	2217 85th Street
2222 85th Street	2239 85th Street	2238 85th Street
2666 Coney Island Ave	2650B Coney Island Ave	2624 Coney Island Ave
751 Crawford Ave	748 Crawford Ave	2659 Coney Island Ave
263 7 Coney Island Ave	2673 Coney Island Ave	740 Crawford Ave
2681 Coney Island Ave	2273 851h Street	2261 851h Street
2223 85th Street	2226 85th Street	402Avenue W
2215 851h Street	2251 85th Street	2258 851h Street
2664 Coney Island Ave	2648 Coney Island Ave	746 Crawford Ave
747 Crawford Ave	2667 Coney Island Ave	2653 Coney Island Ave (Levla)
2677 Coney Island Ave	734 Crawford Ave	2653 Coney Island Ave (Zebra)
2687 Coney Island Ave	2267 85th Street	2259 85th Street
2228 85th Street	2218 85th Street	2219 851h Street
2249 85th Street	2248 851h Street	

The remaining ten (10) establishments, listed below, had illegal connections to the storm sewer:

Address	Date of Investigation	Date Closed	Comments
2650C Coney Island Avenue	06/09/2014	02/18/2014	
2308A McDonald Avenue	07/01/2014	08/04/2014	
2308 McDonald Avenue	07/01/2014	08/04/2014	
2314 McDonald Avenue	07/01/2014	08/04/2014	
2661 Coney Island Avenue	08/04/2014	09/15/2014	
2689 Coney Island A venue	06/09/2015	09/15/2015	
2277 85 <sup>th</sup> Street	08/20/2015	12/06/2015	
404 Avenue W	09/21/2015	07/21/2016	
2235 85 <sup>th</sup> Street	02/14/2016	05/26/2016	
2221 85 <sup>th</sup> Street	02/04/2016	07/11/2016	

As a result, Commissioner's Orders (CO) were issued to the property owners, who removed the illegal connections. This case was closed as of November 13, 2017. Please refer to item Number 5326.

## UNAUTHORIZED NON-STORMWATER DISCHARGES

DEP's Emergency Response Unit (ERU) tracks and responds to incidents of spills and illegal discharges to the NYC sewer system. These constitute unauthorized non-stormwater discharges under the New York City MS4 Permit. In accordance with an agreement between DEP and DEC, DEP will report citywide information on spills and illegal discharges to meet the requirement in MS4 Permit Part IV.D.5 through 2020, when DEP will submit the final MS4 map and can identify all spills and discharges located in the MS4.

The Table below includes ERU's complaint response tracking information for calendar year 2017, which includes the types and number of complaints received and responded to.

Nature of Complaint	Total for 2017
1. Oil	204
2. Gasoline/Explosivity	135
3. Chemicals	117
4. Odors	36
5. Wastewater/Concrete	619
6. Discharge to Receiving Water	11
7. Miscellaneous	64
<b>Sub Total</b>	1186
8a. Complaints received & referred to Others	147
8b. Follow-up-Inspections	1001
<b>TOTAL</b>	2334