NYC Environmental Protection

Vincent Sapienza, P.E.
Commissioner

Pam Elardo, P.E.
Deputy Commissioner

Bureau of Wastewater Treatment

96-05 Horace Harding Expressway – 2nd Floor
Corona, NY 11368

PElardo@dep.nyc.gov

June 30, 2021

Mr. Selvin Southwell, P.E.,
Regional Water Engineer
New York State Department
Of Environmental Conservation
Division of Water - Region 2
47-40 21st Street - 4th Fl.
Long Island City, NY 11101-5407

Re: 2020 Integrated Sentinel Monitoring Report

Dear Mr. Southwell:

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 2020.

Sincerely,

DocuSigned by:
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Pamela Elardo, P.E.
Deputy Commissioner

INTEGRATED SENTINEL MONITORING REPORT 2020

NYC Environmental Protection

Bill de Blasio
Mayor

Vincent Sapienza, P. E.
Commissioner

TABLE OF CONTENTS

INTRODUCTION

The Shoreline Survey Program-Cycle II conducted by the Bureau of Wastewater Treatment's Compliance Monitoring Section (CMS) between 1998 and 2020 has resulted in the identification of 5,312 outfalls including 423 Combined Sewer Overflows (CSO), 469 storm outfalls and other outfalls such as highway drains and non-city owned drains. A total of 427 contaminated discharges representing a flow of 4.424 MGD were identified. Since then, 421 of these contaminated discharges have been abated, representing a flow of 4.406 MGD, of which 269 discharging pipes are city-owned and the remainder, 158, falls under the jurisdiction of NYSDEC. Currently NYCDEP has four (4) contaminated discharge pipes under abatement investigation, or 0.014 MGD, whereas two (2) sewer pipes under the jurisdiction of NYSDEC remain to be abated or 0.004 MGD. Therefore, the benefit has been a 99.6 % 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. During the first quarter of 2020, NYCDEP has performed sentinel monitoring at eighty (80) ambient monitoring stations in accordance with the current SPDES permit Storm-Water Management Program. As of April 1st, 2020, the Sentinel Monitoring Program has been optimized to include the substitution of eighteen (18) stations of the previous eighty (80) ambient monitoring stations with nine (9) Harbor Survey stations and the addition of three (3) new ambient monitoring stations (Coney Island Creek, Sheepshead Bay, and Fresh Creek). Therefore, beginning the second quarter of 2020, NYCDEP has implemented the optimized program by performing sentinel monitoring at seventy-four (74) ambient monitoring stations. 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 was conducted at eighty (80) ambient monitoring stations during the first quarter and at seventy-four (74) ambient monitoring stations during all subsequent quarters. Sampling is performed after a dry antecedent period of forty-eight (48) 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

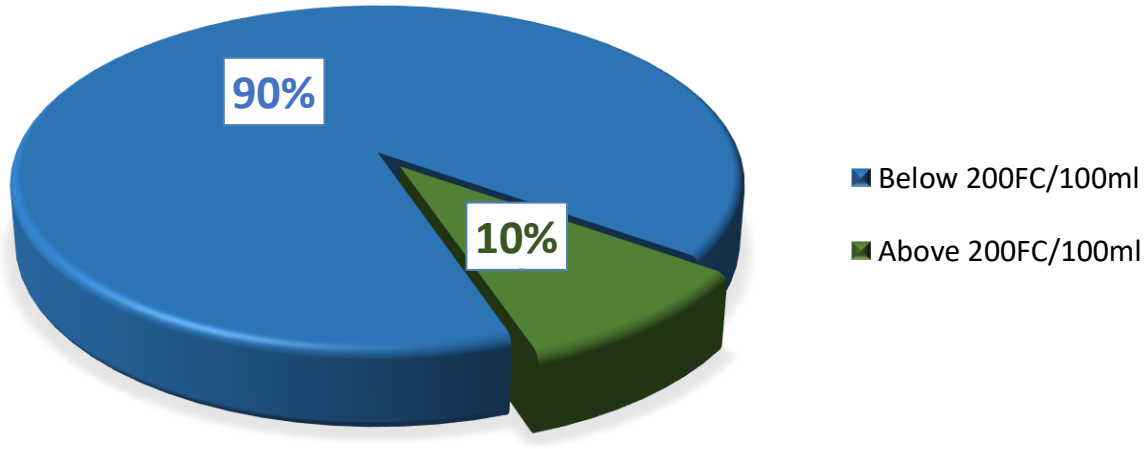
For 2020, an interim baseline of 200 fecal coliform/100 mL, based on NYSDEC water quality standards, was assigned to all the sentinel stations. A mini-shoreline investigation was conducted for any exceedance of this baseline. In addition, Enterococci samples were collected from all sentinel stations in each of the quarters. 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 – 1st Quarter

Fecal Coliform Baseline FC/100 ml	Number of Stations	Percentage (%) of Stations
1 – 200	72	90
> 200	8	10

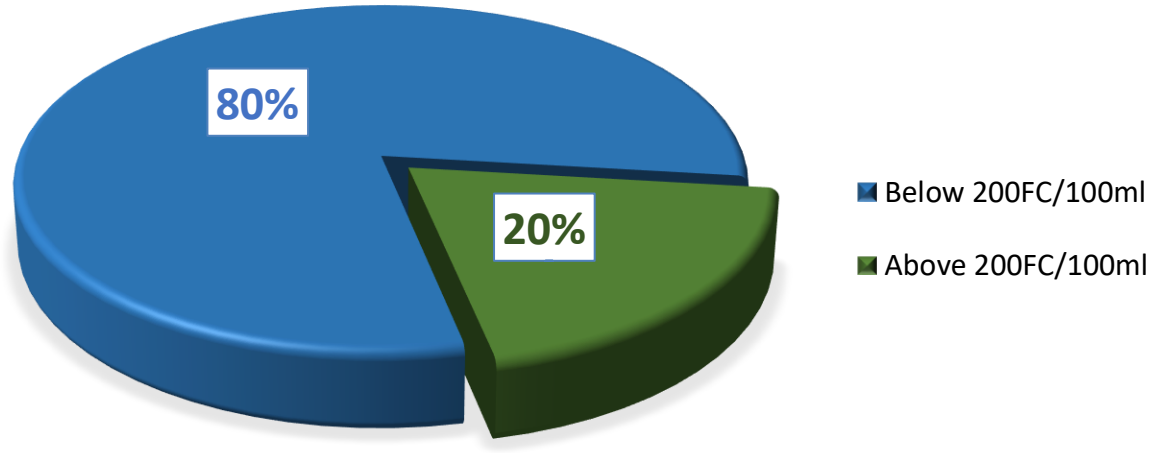
PERCENTILE EXCEEDANCE - 1ST QUARTER



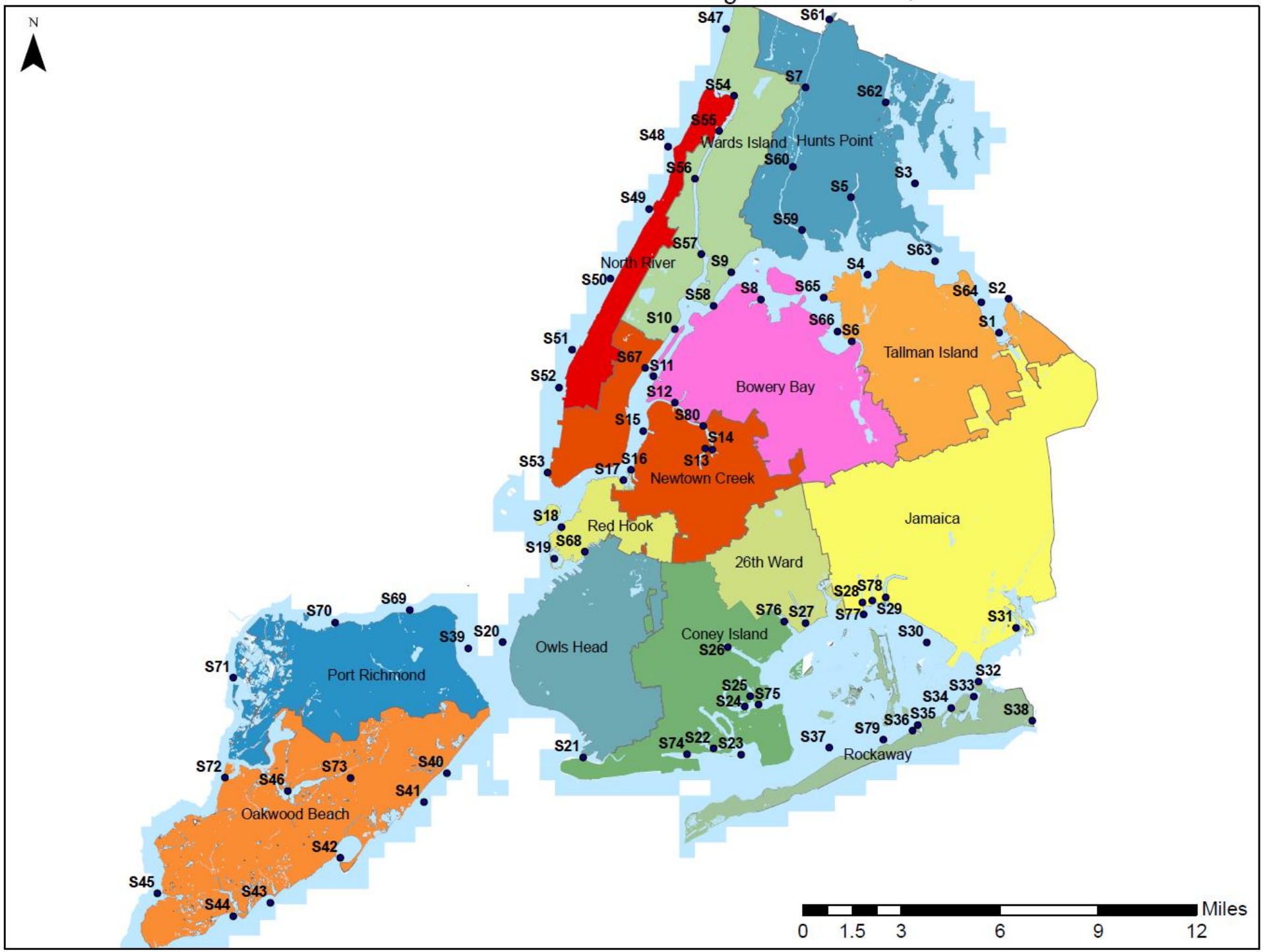
SURVEY STATISTICS – 2nd, 3rd, & 4th Quarter

Fecal Coliform Baseline FC/100 ml	Number of Stations	Percentage (%) of Stations
1 – 200	59	80
> 200	15	20

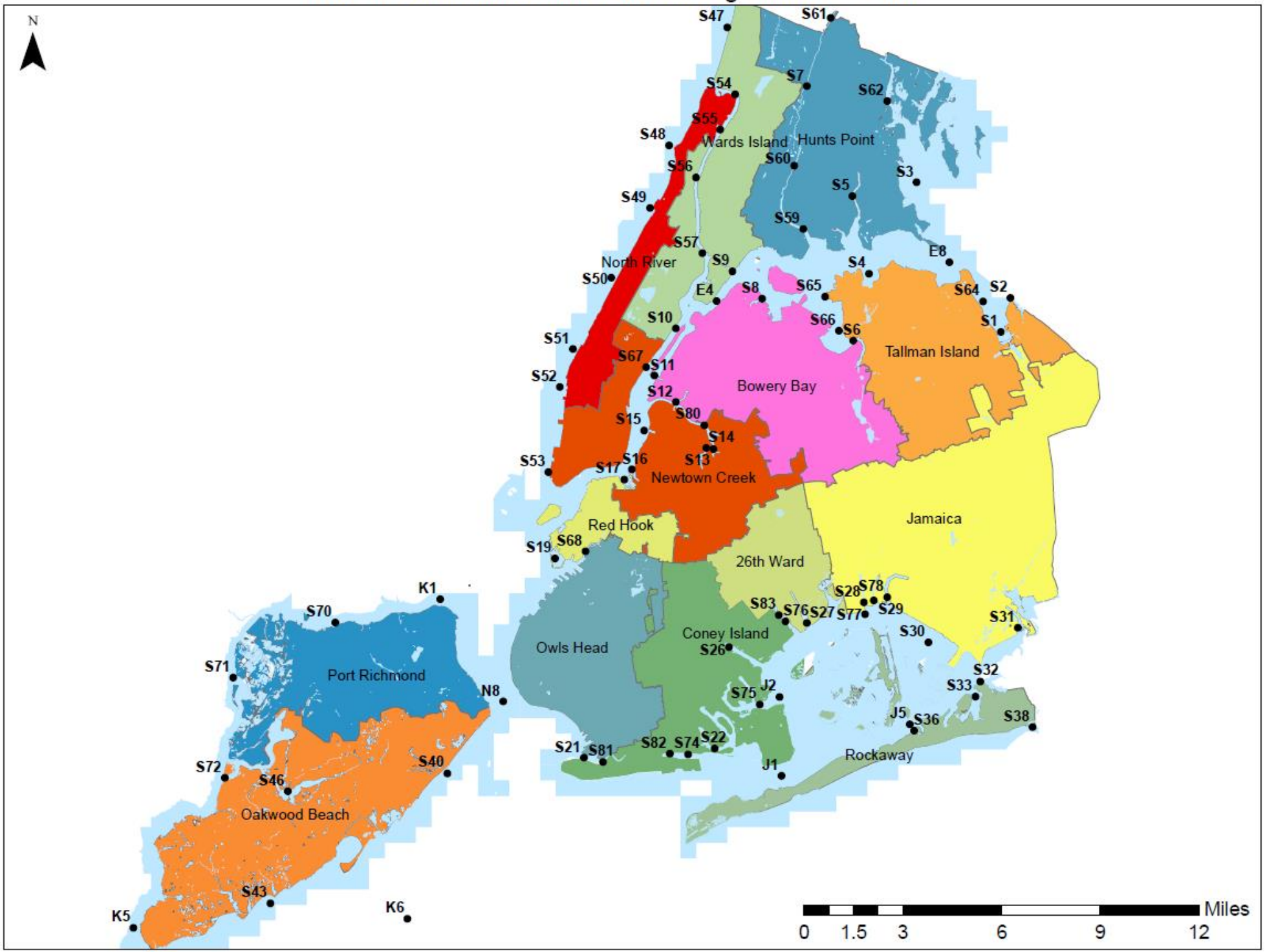
PERCENTILE EXCEEDANCE - 2ND, 3RD, & 4TH QUARTER



New York Harbor Sentinel Monitoring Stations -1st Quarter



New York Harbor Sentinel Monitoring Stations - 2020



Sampling Stations 1st Quarter

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	Hallet's 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"	74° 00' 41"
S19	Entrance to Erie Basin at Dwight Street	40° 40' 09"	74° 00' 56"
S20	Upper New York Bay & 79th street	40° 37' 56"	74° 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"

Sampling Stations 1st Quarter

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"	74° 00' 19"
S52	Hudson River & W. 14th Street	40° 44' 41"	74° 00' 46"
S53	Hudson River & South Cove (The Battery)	40° 42' 26"	74° 01' 10"
S54	Harlem River Under Broadway Bridge	40° 52' 25"	73° 54' 40"

Sampling Stations 1st Quarter

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 Throgs 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"

Sampling Stations 2nd, 3rd, & 4th Quarter

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	Hallet’s 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"
S19	Entrance to Erie Basin at Dwight Street	40° 40' 09"	73° 00' 56"
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"
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"
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"

Sampling Stations 2nd, 3rd, & 4th Quarter

Station ID	Location	Latitude	Longitude
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"
S36	Entrance to Barbadoes Basin at Beach 83rd Street	40° 35' 35"	73° 48' 29"
S38	Bannister Creek & Atlantic Beach Bridge Approach	40° 35' 40"	73° 44' 22"
S40	Lower NY Bay n/o Sand Lane (South Beach)	40° 34' 28"	74° 04' 40"
S43	Raritan Bay n/o Huguenot Avenue	40° 31' 01"	74° 10' 48"
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"
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"
S59	Bronx River & Randall Avenue	40° 48' 51"	73° 52' 18"
S60	Bronx River & E. 180th Street	40° 50' 32"	73° 52' 37"
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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"

Sampling Stations 2nd, 3rd, & 4th Quarter

Station ID	Location	Latitude	Longitude
S68	Gowanus Bay e/o Hamilton Avenue Bridge	40° 40' 20"	73° 59' 53"
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"
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"
S80	Newtown Creek Under Kosciusko Bridge	40° 43' 40"	73° 55' 45"
S81	Coney Island Creek near W 25th Street	40° 34' 46"	73° 59' 16"
S82	Sheepshead Bay near Exeter Street	40° 34' 59"	73° 56' 57"
S83	Fresh Creek near Avenue L	40° 38' 39"	73° 53' 10"
N8	Midspan under the Verrazano-Narrows Bridge	40° 36' 22"	74° 02' 44"
J1	Rockaway Inlet under the center of the bridge from Barren Island to Rockaway	40° 34' 24"	73° 53' 05"
J2	Mill Basin at the east end of the channel, midway between channel buoys	40° 36' 29"	73° 53' 09"
J5	Railroad trestle at the center pier of the bridge over Beach Channel, Hammels	40° 35' 45"	73° 48' 38"
K6	200 yards from Old Orchard Light in line with the beacon at Old Orchard Shoal	40° 30' 37"	74° 06' 03"
K5	Ward Point Bend between Tottenville Place & Perth Amboy Place	40° 30' 22"	74° 15' 32"
E4	Hell Gate midstream under Railroad Bridge	40° 46' 57"	73° 55' 19"
E8	Throgs Neck Midway between the two forts at the narrowest point	40° 47' 58"	73° 47' 13"
K1	Constable Hook Reach n/o North Shore Waterfront Esplanade Park	40° 39' 04"	74° 04' 55"

SHORELINE MONITORING PROGRAM

2020 ANALYTICAL RESULTS

Station ID	Samp1	Samp2	Samp3	Samp4	Samp5	Samp6	Samp7	Samp8	Samp9	Samp10	95% UCL
S1	62	72	58	16	101	14	136	34	56	76	86
S2	74	40	30	8	24	20	14	2	62	101	57
S3	18	6	2	2	4	6	14	4	10	8	11
S4	205	24	24	26	22	122	40	18	167	32	111
S5	104	3,800	20	56	144	490	74	168	87	540	1,265
S6	9,200	10,100	7,200	38	12,600	5,700	250	1,573	1,200	5,700	8,123
S7	300	289	11,400	1,055	4,000	450	216	480	936	480	4,131
S8	196	98	72	136	56	30	30	30	105	89	117
S9	84	40	54	2	300	88	26	36	16	14	120
S10	62	10	46	28	268	77	32	20	2	60	108
S11	40	54	8	32	209	42	24	24	6	54	86
S12	330	470	42	115	250	64	79	28	300	678	368
S13	220	3,000	22	1,091	800	2,100	42	28	221	3,400	1,892
S14	17,100	8,700	44	736	2,300	152	84	36	114	1,109	6,513
S15	200	40	34	86	91	34	42	32	108	30	103
S16	94	60	90	125	32	50	38	2	16	16	77
S17	24	42	22	52	30	70	52	2	26	34	47
S18	172	28	14	48	2,600	64	48				
S19	24	36	8	44	510	42	56	2	2	14	170
S20	110	30	8	250	36	62	38				
S21	10	882	300	6,000	312	48	100	570	2,300	22	2,213
S22	720	6	2	28	18	32	18	22	32	32	228
S23	22	3	18	4	48	22	14				
S24	32	10	116	48	10	16	8				
S25	40	8	18	4	2	8	8				
S26	560	92	72	4	6,600	30	48	22	12,100	87	4,507
S27	270	34	34	85	836	5,600	12	28	166	540	1,828

Fecal result = FC / 100ml

UCL – Upper Confidence Limit

SHORELINE MONITORING PROGRAM

2020 ANALYTICAL RESULTS

Station ID	Samp1	Samp2	Samp3	Samp4	Samp5	Samp6	Samp7	Samp8	Samp9	Samp10	95% UCL
S28	86	500	2	62	542	228	46	18	58	30	282
S29	34	540	2	32	7,700	6,000	82	195	114	20	3,249
S30	8	74	4	4	271	164	72	4	22	18	119
S31	20	18	233	144	84	116	24	6	4	68	118
S32	8	4	2	4	2	2	4	2	12	112	36
S33	84	10	2	46	4	6	8	2	8	68	43
S34	16	32	2	600	6	6	6				
S35	8	34	6	32	112	2	18				
S36	20	176	8	4	120	2	102	10	32	158	106
S37	6	10	2	26	14	10	6				
S38	2	230	12	4	26	44	14	8	2	54	83
S39	54	224	28	250	48	20	28				
S40	92	22	10	24	16	12	2	2	2	8	36
S41	10	14	6	30	8	12	2				
S42	10	2	8	8	2	14	2				
S43	36	6	8	4	4	10	48	2	8	2	23
S44	76	10	12	6	2	2	34				
S45	1,318	16	36	180	22	63	60				
S46	600	8	260	600	400	260	48	46	60	120	380
S47	18	132	105	12	44	252	85	2	10	26	117
S48	10	174	148	40	46	282	62	8	14	34	138
S49	16	84	64	270	96	148	46	14	16	30	128
S50	86	144	82	380	96	110	60	10	18	22	167
S51	8	92	118	300	42	410	58	22	94	30	200
S52	260	96	176	243	72	410	82	10	4	40	221
S53	74	16	105	28	82	249	34	8	8	20	108
S54	8	216	91	12	60	196	140	4	22	28	127

Fecal result = FC / 100ml

UCL – Upper Confidence Limit

SHORELINE MONITORING PROGRAM

2020 ANALYTICAL RESULTS

Station ID	Samp1	Samp2	Samp3	Samp4	Samp5	Samp6	Samp7	Samp8	Samp9	Samp10	95% UCL
S55	18	66	220	14	107	297	87	2	14	12	146
S56	12	62	128	32	82	420	89	6	198	30	183
S57	6	40	104	34	290	218	20	18	24	32	139
S58	98	22	66	12	400	103	28				
S59	2,300	560	781	32	4,000	480	34	97	44	12	1,647
S60	260	845	520	1,218	209	250	560	450	608	2,200	1,087
S61	1,036	1,154	4,000	9,500	1,109	370	270	3,100	8,900	686	5,166
S62	15,200	17,700	691	14,400	1,073	3,900	264	72	48	184	9,889
S63	40	22	8	36	2	4	20				
S64	28	64	22	10	6	8	64	4	36	36	42
S65	330	188	40	92	8,500	101	22	10	261	81	2605
S66	3,500	440	99	9,200	6,000	34	209	66	340	350	4,010
S67	50	52	82	34	30	52	20	22	8	40	52
S68	330	52	14	250	6,000	82	52	8	460	46	1,881
S69	93	92	60	239	50	8	58				
S70	320	109	50	339	144	110	72	124	118	78	209
S71	530	118	100	2300	235	30	26	140	330	54	814
S72	133	164	20	64	2	38	98	10	24	14	92
S73	30	14	2	2	2	2	6				
S74	214	172	173	590	480	330	131	97	1,009	460	540
S75	14	34	87	8	36	12	4	6	48	100	56
S76	148	60	68	320	16,100	233	390	600	460	2,100	5130
S77	290	340	2	40	544	105	22	40	75	116	267
S78	4	12,100	83	148	10,300	128	490	683	380	50	5,314
S79	6	16	2	8	4	2	12				
S80	2,900	330	30	490	238	185	77	32	70	550	1,027

Fecal result = FC / 100ml

UCL – Upper Confidence Limit

1st QUARTER

JANUARY 1 - MARCH 31, 2020

SHORELINE MONITORING PROGRAM

2020

FECAL COLIFORM (MF) SAMPLE RESULTS

1st QUARTER

No	Sample Date	Station ID	Fecal Coliform	Enterococci	2020 Fecal Coliform Baseline
1	1/21/2020	S 1	136	E 24	200
2	1/21/2020	S 2	E 14	<2	200
3	1/21/2020	S 3	E 14	E 2	200
4	1/21/2020	S 4	40	E 6	200
5	2/19/2020	S 5	74	E 6	200
6	1/21/2020	S 6	**250***	60	200
7	2/20/2020	S 7	**216***	**188***	200
8	1/21/2020	S 8	E 30	E 6	200
9	2/18/2020	S 9	E 26	E 2	200
10	2/18/2020	S 10	E 32	E 20	200
11	2/18/2020	S 11	E 24	E 4	200
12	2/18/2020	S 12	79	E 10	200
13	2/18/2020	S 13	42	E 8	200
14	2/18/2020	S 14	84	E 20	200
15	2/19/2020	S 15	42	E 6	200
16	2/19/2020	S 16	E 38	E 4	200
17	2/19/2020	S 17	52	E 14	200
18	2/19/2020	S 18	E 48	E 4	200
19	2/19/2020	S 19	E 56	E 2	200
20	2/19/2020	S 20	E 38	E 8	200
21	2/19/2020	S 21	100	E 16	200
22	1/30/2020	S 22	E 18	E 2	200
23	1/30/2020	S 23	E 14	<2	200
24	1/29/2020	S 24	E 8	<2	200
25	1/29/2020	S 25	E 8	E 2	200
26	1/29/2020	S 26	48	E 2	200
27	1/29/2020	S 27	E 12	E 6	200
28	1/29/2020	S 28	46	E 8	200
29	1/29/2020	S 29	82	E 12	200
30	1/29/2020	S 30	72	E 24	200
31	1/30/2020	S 31	E 24	<2	200
32	1/30/2020	S 32	E 4	E 4	200
33	1/30/2020	S 33	E 8	E 2	200
34	1/30/2020	S 34	E 6	<2	200
35	1/30/2020	S 35	E 18	E 8	200
36	1/30/2020	S 36	102	E 30	200
37	1/30/2020	S 37	E 6	<2	200
38	2/20/2020	S 38	E 14	<2	200
39	2/19/2020	S 39	E 28	E 12	200
40	1/22/2020	S 40	E 2	E 2	200

Fecal result = FC/100 ml

** Fecal Coliform Exceedance*

SHORELINE MONITORING PROGRAM

2020

FECAL COLIFORM (MF) SAMPLE RESULTS

1st QUARTER

No	Sample Date	Station ID	Fecal Coliform	Enterococci	2020 Fecal Coliform Baseline
41	1/22/2020	S 41	<2	E 2	200
42	1/22/2020	S 42	<2	<2	200
43	1/22/2020	S 43	48	E 28	200
44	1/22/2020	S 44	E 34	E 10	200
45	1/22/2020	S 45	60	E 38	200
46	2/20/2020	S 46	48	110	200
47	1/23/2020	S 47	85	40	200
48	1/23/2020	S 48	62	E 22	200
49	1/23/2020	S 49	46	E 14	200
50	1/23/2020	S 50	60	E 16	200
51	1/23/2020	S 51	58	E 22	200
52	1/23/2020	S 52	82	E 24	200
53	1/23/2020	S 53	E 34	E 4	200
54	1/23/2020	S 54	140	E 22	200
55	1/23/2020	S 55	87	E 26	200
56	1/23/2020	S 56	89	E 24	200
57	1/23/2020	S 57	E 20	E 20	200
58	2/18/2020	S 58	E 28	E 6	200
59	2/19/2020	S 59	E 34	E 4	200
60	2/20/2020	S 60	**560***	*86*	200
61	2/20/2020	S 61	**270***	**440***	200
62	2/19/2020	S 62	**264***	E 10	200
63	1/21/2020	S 63	E 20	E 2	200
64	1/21/2020	S 64	64	E 8	200
65	1/21/2020	S 65	E 22	E 6	200
66	1/21/2020	S 66	**209***	46	200
67	2/18/2020	S 67	E 20	E 4	200
68	2/19/2020	S 68	52	E 6	200
69	1/22/2020	S 69	58	E 12	200
70	1/22/2020	S 70	72	E 8	200
71	1/22/2020	S 71	E 26	E 10	200
72	1/22/2020	S 72	98	74	200
73	1/22/2020	S 73	E 6	E 4	200
74	1/30/2020	S 74	131	46	200
75	1/29/2020	S 75	E 4	< 2	200
76	1/29/2020	S 76	**390***	90	200
77	1/29/2020	S 77	E 22	E 4	200
78	1/29/2020	S 78	**490***	E 28	200
79	1/30/2020	S 79	E 12	< 2	200
80	2/18/2020	S 80	77	E 38	200

Fecal result = FC/100 ml

** Fecal Coliform Exceedance*

WEATHER REPORT

The first quarter monitoring and sampling of ambient sampling stations began on January 01, 2020 and ended on March 31, 2020. During this quarter, eighty sentinel stations were sampled. During this quarter, a total of 8.25 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 the end of January. The investigation included the shoreline of the Flushing River between Roosevelt Avenue and 31st Road. No discharge or water discoloration was observed.

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

A mini-shoreline survey was conducted in the beginning of March. The survey targeted the shoreline on both of sides of the Bronx River starting at East Gun Hill Road. No discharge or water discoloration was observed.

S-60: BRONX RIVER AND EAST 180TH STREET

A mini-shoreline was performed in the beginning of March. The survey targeted the shoreline on both sides of East 180th Street in the Bronx River. No discharge or water discoloration was observed.

S-61: BRONX RIVER & EAST 241st STREET

A mini-shoreline survey was performed in the beginning of March. The investigation covered both sides of the Bronx River between East 241st Street and East 243rd Street. 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 Compliance Monitoring Section (CMS) has notified the NYSDEC of this ongoing problem.

S-62: HUTCHINSON RIVER & ASH LOOP

A mini-shoreline survey was performed in the end of February. The investigation included the area along the Hutchinson River near Co-op City in the Bronx. No discharge or water discoloration was observed.

S-66: FLUSHING BAY & 31ST AVENUE

A mini-shoreline survey was performed at the end of January. The investigation included the area of Flushing Bay between 123rd Street and 28th Avenue. No discharge or water discoloration was observed.

S-76: FRESH CREEK BASIN & AVENUE N

A mini-shoreline survey was performed at the end of February. The investigation included the area of Fresh Creek Basin between Avenue K and Seaview Avenue. No discharge or water discoloration was observed.

S-78: BERGEN BASIN & 163RD AVE

A mini-shoreline was conducted at the end of February. The investigation included the area of Bergen Basin adjacent to Lefferts Boulevard. No discharge or water discoloration was observed.

DRY WEATHER DISCHARGE

NYC PARKS & HEALTH + HOSPITALS SEAVIEW

As part of a request by the New York State Department of Environmental Conservation (NYS DEC) and NYC Parks & Recreation to identify the sources of outfalls with illicit dry weather discharge in Staten Island Greenbelt Park, CMS personnel conducted dye testing of buildings on the Seaview Hospital Campus and NYC Parks. The Camelot and Park Lane building on the Health & Hospitals Seaview and the Greenbelt Recreation Center at the NYC Park were found to be discharging sanitary material into sanitary manholes overflowing to outfalls in Blood Root Valley. The case was transferred to NYS DEC.

FRIENDSHIP LANE

As part of a request by NYS DEC, Compliance Monitoring Section (CMS) personnel conducted an inspection and dye tested the Brielle at Seaview and 155-175 Friendship Lane (Clinton Management buildings). CMS personnel observed overflowing sanitary debris from a clogged sanitary line. A Commissioner's Order was issued to Clinton Management who afterwards removed a pipe blockage in the line. (CMS) personnel performed a dye test on Friendship Lane to confirm if the condition was corrected. Dye was observed in the city's sanitary sewer on Brielle Avenue. The case was transferred to NYS DEC.

FULTON BRIDGE, HUTCHINSON RIVER

Due to high levels of fecal bacteria measured in the Hutchinson River, CMS personnel conducted an inspection into two unknown outfalls on opposite sides of the Fulton Avenue Bridge in Westchester County. Dry weather discharge was observed at both outfalls.

HP-015, WESTCHESTER CREEK

As part of an ongoing case into the cause of high levels of fecal bacteria measured in Westchester Creek, CMS personnel conducted an inspection and investigation into the area around outfall HP-015. No discharge was observed at the outfall however, multiple boat houses were observed to the southwest of the outfall. CMS will continue investigating the area for any illegal connections.

2nd QUARTER

APRIL 1 - JUNE 30, 2020

SHORELINE MONITORING PROGRAM

2020

FECAL COLIFORM (MF) SAMPLE RESULTS

2nd QUARTER

No	Sample Date	Station ID	Fecal Coliform	Enterococci	2020 Fecal Coliform Baseline
1	5/6/2020	S 1	E 34	E 14	200
2	5/6/2020	S 2	E 2	E 2	200
3	5/6/2020	S 3	E 4	E 3	200
4	5/6/2020	S 4	E 18	E 4	200
5	5/18/2020	S 5	168	82	200
6	5/6/2020	S 6	**1,573***	**590**	200
7	5/27/2020	S 7	**480***	194	200
8	5/6/2020	S 8	E 30	<2	200
9	5/18/2020	S 9	E 36	E 10	200
10	5/18/2020	S 10	E 20	E 12	200
11	5/18/2020	S 11	E 24	E 2	200
12	5/18/2020	S 12	E 28	E 8	200
13	5/18/2020	S 13	E 28	E 10	200
14	5/18/2020	S 14	E 36	<2	200
15	5/14/2020	S 15	E 32	E 2	200
16	5/14/2020	S 16	E 2	E 4	200
17	5/14/2020	S 17	E 2	E 4	200
18	5/14/2020	S 19	<2	< 2	200
19	5/14/2020	S 21	**570***	E 20	200
20	5/21/2020	S 22	E 22	< 2	200
21	5/19/2020	S 26	E 22	<2	200
22	5/19/2020	S 27	E 28	E 2	200
23	5/19/2020	S 28	E 18	<2	200
24	5/19/2020	S 29	195	E 12	200
25	5/19/2020	S 30	E 4	<2	200
26	5/21/2020	S 31	E 6	<2	200
27	5/21/2020	S 32	<2	<2	200
28	5/21/2020	S 33	<2	<2	200
29	5/21/2020	S 36	E 10	E 4	200
30	5/27/2020	S 38	E 8	< 2	200
31	5/5/2020	S 40	E 2	< 2	200
32	5/5/2020	S 43	E 2	<2	200
33	5/27/2020	S 46	46	E 6	200
34	5/20/2020	S 47	E 2	<2	200
35	5/20/2020	S 48	E 8	E 2	200
36	5/20/2020	S 49	E 14	<2	200
37	5/20/2020	S 50	E 10	E 4	200
38	5/20/2020	S 51	E 22	<2	200
39	5/20/2020	S 52	E 10	<2	200

Fecal result = FC/100 ml

** Fecal Coliform Exceedance*

SHORELINE MONITORING PROGRAM

2020

FECAL COLIFORM (MF) SAMPLE RESULTS

2nd QUARTER

No	Sample Date	Station ID	Fecal Coliform	Enterococci	2020 Fecal Coliform Baseline
40	5/20/2020	S 53	E 8	<2	200
41	5/20/2020	S 54	E 4	<2	200
42	5/20/2020	S 55	E 2	E 2	200
43	5/20/2020	S 56	E 6	E 6	200
44	5/20/2020	S 57	E 18	56	200
45	5/18/2020	S 59	97	E 14	200
46	5/27/2020	S 60	**450***	120	200
47	5/27/2020	S 61	**3,100***	**211***	200
48	5/18/2020	S 62	72	<2	200
49	5/6/2020	S 64	E 4	<2	200
50	5/6/2020	S 65	E 10	E 4	200
51	5/6/2020	S 66	66	E 8	200
52	5/18/2020	S 67	E 22	E 4	200
53	5/14/2020	S 68	E 8	E 2	200
54	5/5/2020	S 70	124	E 10	200
55	5/5/2020	S 71	140	E 16	200
56	5/5/2020	S 72	E 10	E 4	200
57	5/21/2020	S 74	97	E 2	200
58	5/19/2020	S 75	E 6	E 2	200
59	5/19/2020	S 76	**600***	E 8	200
60	5/19/2020	S 77	40	E 2	200
61	5/19/2020	S 78	**683***	E 8	200
62	5/18/2020	S 80	E 32	E 10	200
63	5/14/2020	S 81	**230***	E 6	200
64	5/21/2020	S 82	**1,491***	44	200
65	5/19/2020	S 83	**245***	E 6	200
66	5/14/2020	N8	E 14	<2	200
67	5/21/2020	J1	E 20	<2	200
68	5/19/2020	J2	E 6	<2	200
69	5/21/2020	J5	E 8	E 10	200
70	5/5/2020	K6	<2	<2	200
71	5/5/2020	K5	E 12	<2	200
72	5/18/2020	E4	40	E 6	200
73	5/6/2020	E8	E 8	<2	200
74	5/5/2020	K1	E 12	E2	200

Fecal result = FC/100 ml

** Fecal Coliform Exceedance*

WEATHER REPORT

The second quarter monitoring and sampling of ambient sampling stations began on April 01, 2020 and ended on June 30, 2020. During this quarter, all seventy-four (74) sentinel stations were sampled. During this quarter, a total of 7.9 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 the middle of May. The investigation included the shoreline of both sides of the Flushing River from Northern Boulevard to 127th street. No discharge or water discoloration was observed.

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

A mini-shoreline survey was performed in the beginning of June. The investigation included the shoreline of both sides of the Bronx River, south of east Gun Hill Road. No discharge or water discoloration was observed.

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

A mini-shoreline survey was performed in the middle of May. The investigation included the shoreline along Coney Island Creek from West 35th Street to Kaiser Park Playground. No discharge or water discoloration was observed.

S-60: BRONX RIVER & EAST 180TH STREET

A mini-shoreline survey was performed in the beginning of June. The investigation included the shoreline of the Bronx River on both sides of East 180th Street. No discharge or water discoloration was observed.

S-61: BRONX RIVER & EAST 241ST STREET

A mini-shoreline survey was performed in the beginning of June. The investigation covered both sides of the Bronx River between East 241st Street and East 243rd Street. 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 Compliance Monitoring Section (CMS) has notified the NYSDEC of this ongoing problem.

S-76: FRESH CREEK BASIN & AVENUE N

A mini-shoreline survey was performed in the beginning of June. The investigation included the shoreline along Fresh Creek Basin from Avenue N to Seaview Avenue. No discharge or water discoloration was observed.

S-78: BERGEN BASIN & 163RD AVENUE

A mini-shoreline survey was performed in the beginning of June. The investigation included the shoreline along Bergen Basin from 130th Place to Lefferts Boulevard. No discharge or water discoloration was observed.

S-81: CONEY ISLAND CREEK NEAR W 25TH STREET

A mini-shoreline survey was performed in the middle of May. The investigation included the shoreline along Coney Island Creek from West 15th Street to West 21st Street. No discharge or water discoloration was observed.

S-82: SHEEPSHEAD BAY NEAR EXETER STREET

A mini-shoreline survey was performed in the middle of June. The investigation included the shoreline of Sheepshead Bay from East 21st Street to Shore Boulevard to Girard Street. No discharge or water discoloration was observed.

S-83: FRESH CREEK NEAR AVENUE L

A mini-shoreline survey was performed in the beginning of June. The investigation included the shoreline along Fresh Creek Basin from Avenue L to Flatlands Avenue. No signs of discharge or discoloration was observed.

DRY WEATHER DISCHARGE

NCB-635, COUNTRYWIDE STONE

In regard to a DEC complaint of a discharge into Newtown Creek via outfall NCB-635, CMS personnel conducted an investigation. No discharge was observed at the outfall. CMS will continue investigating the area for any illegal connections.

MANHATTAN POLY BAG BUILDING

In regard to a complaint of a discharge into Newtown Creek, CMS personnel conducted an inspection of a pipe observed off the Manhattan Poly Bag Building. No discharge was observed from the pipe. A conspicuous item was found connected to the pipe and a variety of containers were observed on the ground. CMS will continue investigating the area for any illegal connections.

RARITAN BAY, HYLAND BLVD & SATTERLEE ST, STATEN ISLAND

As per management request, CMS personnel visited Hyland Blvd and Satterlee St to investigate a notification of discoloration and odor in Raritan Bay. CMS personnel observed brown water in Bay but there was no odor present. Fecal coliform and Enterococci samples were collected and delivered to the Newtown Creek Laboratory to be tested. No exceedance was measured in the samples. CMS will continue investigating the area for any illegal connections.

3rd QUARTER

JULY 1 - SEPTEMBER 30, 2020

SHORELINE MONITORING PROGRAM

2020

FECAL COLIFORM (MF) SAMPLE RESULTS

3rd QUARTER

No	Sample Date	Station ID	Fecal Coliform	Enterococci	2020 Fecal Coliform Baseline
1	7/27/2020	S 1	56	E 4	200
2	7/27/2020	S 2	62	E 2	200
3	7/27/2020	S 3	E 10	<2	200
4	7/27/2020	S 4	167	E 2	200
5	7/20/2020	S 5	87	E 20	200
6	7/27/2020	S 6	**>1,200***	**278***	200
7	8/3/2020	S 7	**936***	**450***	200
8	7/27/2020	S 8	105	E 14	200
9	7/20/2020	S 9	E 16	E 2	200
10	7/20/2020	S 10	E2	<2	200
11	7/20/2020	S 11	E 6	E 2	200
12	7/20/2020	S 12	**300***	<2	200
13	7/20/2020	S 13	**221***	E 14	200
14	7/20/2020	S 14	114	<2	200
15	7/28/2020	S 15	108	E 8	200
16	7/28/2020	S 16	E 16	E 2	200
17	7/28/2020	S 17	E 26	E 16	200
18	7/28/2020	S 19	<2	<2	200
19	7/28/2020	S 21	**2,300***	*<2*	200
20	8/10/2020	S 22	E 32	<2	200
21	7/21/2020	S 26	**12,100***	E 22	200
22	7/21/2020	S 27	166	E 8	200
23	7/21/2020	S 28	58	<2	200
24	7/21/2020	S 29	114	<2	200
25	7/21/2020	S 30	E 22	E 4	200
26	8/10/2020	S 31	E 4	<2	200
27	8/10/2020	S 32	E 12	<2	200
28	8/10/2020	S 33	E 8	<2	200
29	8/10/2020	S 36	E 32	E 4	200
30	9/8/202020	S 38	<2	E 2	200
31	7/15/2020	S 40	E 2	<2	200
32	7/15/2020	S 43	E 8	<2	200
33	9/8/2020	S 46	60	E 6	200
34	7/16/2020	S 47	E 10	E 6	200
35	7/16/2020	S 48	E 14	<2	200
36	7/16/2020	S 49	E 16	<2	200
37	7/16/2020	S 50	E 18	<2	200
38	7/16/2020	S 51	94	E2	200
39	7/16/2020	S 52	E 4	<2	200

Fecal result = FC/100 ml

** Fecal Coliform Exceedance*

SHORELINE MONITORING PROGRAM

2020

FECAL COLIFORM (MF) SAMPLE RESULTS

3rd QUARTER

No	Sample Date	Station ID	Fecal Coliform	Enterococci	2020 Fecal Coliform Baseline
40	7/16/2020	S 53	E 8	<2	200
41	7/16/2020	S 54	E 22	E 12	200
42	7/16/2020	S 55	E 14	E 18	200
43	7/16/2020	S 56	198	E 14	200
44	7/16/2020	S 57	E 24	E 2	200
45	7/20/2020	S 59	44	E 8	200
46	8/3/2020	S 60	**608***	116	200
47	8/3/2020	S 61	**8,900***	**E 1,500***	200
48	7/20/2020	S 62	48	E 12	200
49	7/27/2020	S 64	E 36	<2	200
50	7/27/2020	S 65	**261***	E 10	200
51	7/27/2020	S 66	**340***	E 24	200
52	7/20/2020	S 67	E 8	<2	200
53	7/28/2020	S 68	**460***	54	200
54	7/15/2020	S 70	118	<2	200
55	7/15/2020	S 71	**330***	E 20	200
56	7/15/2020	S 72	E 24	E 10	200
57	8/10/2020	S 74	**1,009***	E 8	200
58	7/21/2020	S 75	48	E 2	200
59	7/21/2020	S 76	**460***	E 4	200
60	7/21/2020	S 77	75	54	200
61	7/21/2020	S 78	**380***	<2	200
62	7/20/2020	S 80	70	E 8	200
63	7/28/2020	S 81	**8,000***	E 38	200
64	8/10/2020	S 82	**590***	E 12	200
65	7/21/2020	S 83	**480***	E 12	200
66	7/28/2020	N8	E 4	E 12	200
67	8/10/2020	J1	E 2	<2	200
68	7/21/2020	J2	E 14	<2	200
69	8/10/2020	J5	E 2	E4	200
70	7/15/2020	K6	E 4	<2	200
71	7/15/2020	K5	E 6	<2	200
72	7/20/2020	E4	E 14	<2	200
73	7/27/2020	E8	E 32	<2	200
74	7/15/2020	K1	72	E 4	200

Fecal result = FC/100 ml

** Fecal Coliform Exceedance*

WEATHER REPORT

The third quarter monitoring and sampling of ambient sampling stations began on July 01, 2020 and ended on September 30, 2020. During this quarter, all seventy-four (74) sentinel stations were sampled. During this quarter, a total of 15.55 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 the middle of August. The investigation included the shoreline of both sides of the Flushing River from Northern Boulevard to 127th street. No odor or water discoloration was observed.

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

A mini-shoreline survey was performed in the middle of August. The investigation included the shoreline of both sides of the Bronx River, south of east Gun Hill Road. No discharge or water discoloration was observed.

S-12: ENTRANCE TO DUTCH KILLS SOUTH OF LIRR BRIDGE

A mini-shoreline survey was performed at the end of July. The investigation included the shoreline of both sides of the Newtown Creek from the Borden Avenue Bridge to Whale Creek. No discharge or water discoloration was observed.

S-13: NEWTOWN CREEK N/O GRAND AVENUE BRDIGE

A mini-shoreline survey was performed at the end of July. The investigation included the shoreline of both sides of Newtown Creek from Metropolitan Avenue to English Kills north of the Grand Avenue Bridge. No discharge or water discoloration was observed.

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

A mini-shoreline survey was performed in the middle of September. The investigation included the shoreline along Coney Island Creek from West 35th Street to Kaiser Park Playground. No discharge or water discoloration was observed.

S-26: PAERDEGAT BASIN & AVENUE K MARINA

A mini-shoreline survey was performed at the end of September. The investigation included the shoreline along Paerdegat Basin from Flatlands Avenue to Seaview Avenue. No discharge or water discoloration was observed.

S-60: BRONX RIVER & EAST 180TH STREET

A mini-shoreline survey was performed in the middle of August. The investigation included the shoreline of the Bronx River on both sides of East 180th Street. No discharge or water discoloration was observed.

S-61: BRONX RIVER & EAST 241ST STREET

A mini-shoreline survey was performed in the middle of August. The investigation included the shoreline of the Bronx River north of East 241st Street. No discharge or water discoloration was observed.

S-65: EAST RIVER & 18th AVENUE

A mini-shoreline survey was performed in the middle of August. The investigation included the shoreline of the East River along Powell's Cove Boulevard. No discharge or water discoloration was observed.

S-66: FLUSHING BAY & 31st AVENUE

A mini-shoreline survey was performed in the middle of August. The investigation included the shoreline of Flushing Bay at the end of 31st Avenue. No discharge or water discoloration was observed.

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

A mini-shoreline survey was performed in the middle of August. The investigation included the shoreline of Gowanus Bay on both sides of the Hamilton Avenue Bridge. No discharge was observed.

S-71: ARTHUR KILL E/O PRALLS ISLAND

A mini-shoreline survey was performed in the middle of August. The investigation included the shoreline of Staten Island east of Pralls Island. No discharge or water discoloration was observed.

S-74: SHEEPSHEAD BAY & NOSTRAND AVENUE

A mini-shoreline survey was performed at the end of August. The investigation included the shoreline of Sheepshead Bay between Shore Boulevard and Emmons Avenue. No discharge or water discoloration was observed.

S-76: FRESH CREEK BASIN & AVENUE N

A mini-shoreline survey was performed in the end of August. The investigation included the shoreline along Fresh Creek Basin from Avenue N to Seaview Avenue. No discharge or discoloration was observed.

S-78: BERGEN BASIN & 163RD AVENUE

A mini-shoreline survey was performed in the end of July. The investigation included the shoreline along Bergen Basin from 130th Place to Lefferts Boulevard. No discharge or discoloration was observed.

S-81: CONEY ISLAND CREEK NEAR W 25TH STREET

A mini-shoreline survey was performed in the middle of September. The investigation included the shoreline along Coney Island Creek from West 15th Street to West 21st Street. No signs of discharge or discoloration was observed.

S-82: SHEEPSHEAD BAY NEAR EXETER STREET

A mini-shoreline survey was performed at the end of August. The investigation included the shoreline of Sheepshead Bay from East 21st Street to Shore Boulevard to Girard Street. No discharge or discoloration was observed.

S-83: FRESH CREEK NEAR AVENUE L

A mini-shoreline survey was performed in the end of August. The investigation included the shoreline along Fresh Creek Basin from Avenue L to Flatlands Avenue. No discharge or discoloration was observed.

DRY WEATHER DISCHARGE

OH-197

In response to a request from the NYS DEC regarding a dry weather discharge at outfall OH-197, Compliance Monitoring Section personnel (CMS) conducted an investigation and dye tested Alma Bank at 140 58th Street, Brooklyn NY. CMS found them to be connected to the storm sewer and now they are out of business. The premises is now occupied by the property owner, New York City Economic Development Corporation (EDC) and is being used as a medical testing facility. As a result, CMS requested an extension for six (6) months to require the property owner, EDC, to remove the illegal connection to the storm sewer. Please refer to Item Number 5514.

HP-010 & BRONX RIVER

The investigation into the source(s) of contaminated dry weather discharge from HP-010 is ongoing. The Bureau of Wastewater Treatment's Compliance Monitoring Section (CMS) has referred the case to the Bureau of Water and Sewer Operations (BWSO) for further investigation. As a result, CMS requested and extension for six (6) months in order to complete this investigation. Please refer to Item Number 3374.

BB-008

In response to a referral from the Department of Environmental Protections Bureau of Wastewater treatment (BWT), collection Facilities North, of a possible illegal connection to a storm sewer tributary to BB-008, BWT personnel started an investigation in the vicinity of 108th Street and 37th Avenue. The investigation to identify the source of the dry weather discharge at the outfall is still ongoing. This is a tidally impacted outfall. Furthermore, to optimize CSO capture, the bureau of Environmental Design and Construction (BEDC) has started a project modifying the weirs in the regulators that discharge to BB-008. An extension of six (6) months was therefore requested in order to complete the review and investigation of the storm sewer tributary to BB-008. Please refer to Item Number 3687.

9502 SEAVIEW AVEUNE

As part of an investigation and request from BWSO, CMS personnel conducted a dye test of 9502 Seaview Avenue. CMS personnel poured dye into a bathroom in the facility and found the dye in the sanitary sewer fronting the property. A Commissioners Order was issued to the establishment to maintain and seal caps on the sanitary and storm main house traps. The establishment has complied with the order.

BREEZY POINT JETTY, ROCKAWAY

In response to a request from the Spills Unit regarding a notice of raw sewage, CMS personnel conducted an investigation and sampling near the Breezy Point Jetty. No signs of discharge or discoloration were observed in the area. Samples were delivered to the Newtown Creek Laboratory. No exceedance was measured in the samples.

4th QUARTER

OCTOBER 1 - DECEMBER 31, 2020

SHORELINE MONITORING PROGRAM

2020

FECAL COLIFORM (MF) SAMPLE RESULTS

4th QUARTER

No	Sample Date	Station ID	Fecal Coliform	Enterococci	2020 Fecal Coliform Baseline
1	12/9/2020	S 1	76	E 10	200
2	12/9/2020	S 2	101	E 22	200
3	12/9/2020	S 3	E 8	E 2	200
4	12/9/2020	S 4	E 32	E 4	200
5	12/9/2020	S 5	**540***	**E 150***	200
6	12/9/2020	S 6	**5,700***	**E 600***	200
7	11/9/2020	S 7	**480***	**410***	200
8	12/9/2020	S 8	89	E 14	200
9	12/9/2020	S 9	E 14	<2	200
10	11/18/2020	S 10	60	E 16	200
11	11/18/2020	S 11	54	E 10	200
12	11/18/2020	S 12	**678***	107	200
13	11/18/2020	S 13	**3,400***	**E 700***	200
14	11/18/2020	S 14	**1,109***	590	200
15	11/5/2020	S 15	E 30	E 6	200
16	11/5/2020	S 16	E 16	E 4	200
17	11/5/2020	S 17	E 34	104	200
18	11/5/2020	S 19	E 14	E 6	200
19	11/5/2020	S 21	E 22	E 8	200
20	12/8/2020	S 22	E 32	E 12	200
21	11/6/2020	S 26	87	E 4	200
22	11/6/2020	S 27	**540***	E 22	200
23	11/6/2020	S 28	E 30	46	200
24	11/6/2020	S 29	E 20	E 8	200
25	11/6/2020	S 30	E 18	E 2	200
26	12/8/2020	S 31	68	E 8	200
27	12/8/2020	S 32	112	E 8	200
28	12/8/2020	S 33	68	E 4	200
29	12/8/2020	S 36	158	E 10	200
30	11/9/2020	S 38	54	E 8	200
31	11/10/2020	S 40	E 8	<2	200
32	11/10/2020	S 43	E 2	<2	200
33	11/9/2020	S 46	120	54	200
34	11/4/2020	S 47	E 26	E 8	200
35	11/4/2020	S 48	E 34	E 16	200
36	11/4/2020	S 49	E 30	E 18	200
37	11/4/2020	S 50	E 22	E 20	200
38	11/4/2020	S 51	E 30	E 18	200
39	11/4/2020	S 52	40	E 68	200

Fecal result = FC/100 ml

** Fecal Coliform Exceedance*

SHORELINE MONITORING PROGRAM

2020

FECAL COLIFORM (MF) SAMPLE RESULTS

4th QUARTER

No	Sample Date	Station ID	Fecal Coliform	Enterococci	2020 Fecal Coliform Baseline
40	11/4/2020	S 53	E 20	**E 1,120***	200
41	11/4/2020	S 54	E 28	E 28	200
42	11/4/2020	S 55	E 12	E 10	200
43	11/4/2020	S 56	E 30	E 12	200
44	11/4/2020	S 57	E 32	E 24	200
45	12/9/2020	S 59	E 12	E 38	200
46	12/8/2020	S 60	**2,200***	**240***	200
47	11/9/2020	S 61	**686***	**245***	200
48	12/9/2020	S 62	184	56	200
49	12/9/2020	S 64	E 36	E 2	200
50	12/9/2020	S 65	81	E 34	200
51	12/9/2020	S 66	**350***	**62***	200
52	11/18/2020	S 67	40	E 10	200
53	11/5/2020	S 68	46	E 30	200
54	11/10/2020	S 70	78	E 8	200
55	11/10/2020	S 71	54	<2	200
56	11/10/2020	S 72	E 14	E 8	200
57	12/8/2020	S 74	**460***	E 38	200
58	11/6/2020	S 75	E 100	<4	200
59	11/6/2020	S 76	**2,100***	82	200
60	11/6/2020	S 77	116	E 4	200
61	11/6/2020	S 78	50	E 4	200
62	11/18/2020	S 80	**550***	**250***	200
63	11/5/2020	S 81	**4,500***	**100***	200
64	12/8/2020	S 82	**800***	**101***	200
65	11/6/2020	S 83	**2,300***	E 4	200
66	11/5/2020	N8	40	2	200
67	11/6/2020	J1	6	<1	200
68	11/6/2020	J2	10	<1	200
69	11/6/2020	J5	13	1	200
70	11/5/2020	K6	15	<1	200
71	11/5/2020	K5	72	4	200
72	11/4/2020	E4	74	8	200
73	11/4/2020	E8	32	3	200
74	11/5/2020	K1	E 76	6	200

Fecal result = FC/100 ml

** Fecal Coliform Exceedance*

WEATHER REPORT

The fourth quarter monitoring and sampling of ambient sampling stations began on October 01, 2020 and ended on December 31, 2020. During this quarter, all seventy-four (74) sentinel stations were sampled. During this quarter, a total of 13.65 inches of precipitation fell.

MINI-SHORELINE SURVEY RESULTS

S-5: WESTCHESTER CREEK NORTH OF UNIONPORT BRIDGE

A mini-shoreline survey was performed at the end of December. The investigation included the shoreline along both sides of Westchester Creek. No odor or water discoloration was observed.

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

A mini-shoreline survey was performed at the end of December. The investigation included the shoreline of both sides of the Flushing River from Northern Boulevard to 127th street. No odor or water discoloration was observed.

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

A mini-shoreline survey was performed in the middle of November. The investigation included the shoreline of both sides of the Bronx River, south of east Gun Hill Road. No discharge or water discoloration was observed.

S-12: ENTRANCE TO DUTCH KILLS SOUTH OF LIRR BRIDGE

A mini-shoreline survey was performed at the end of December. The investigation included the shoreline of both sides of the Newtown Creek from the Borden Avenue Bridge to Whale Creek. No discharge or water discoloration was observed.

S-13: NEWTOWN CREEK N/O GRAND AVENUE BRDIGE

A mini-shoreline survey was performed in the middle of November. The investigation included the shoreline of both sides of Newtown Creek from Metropolitan Avenue to English Kills north of the Grand Avenue Bridge. No discharge or water discoloration was observed

S-14: ENTRANCE TO ENGLISH KILLS AT SCOTT STREET

A mini-shoreline survey was performed in the middle of November. The investigation included the shoreline of English Kills between Maspeth Avenue and Grand Street. No discharge or water discoloration was observed

S-27: ENTRANCE TO HENDRIX CREEK SOUTHEAST OF BELT PARKWAY

A mini-shoreline survey was performed at the end of December. The investigation included the shoreline on both sides of Hendrix Creek. No discharge or water discoloration was observed.

S-53: HUDSON RIVER AND SOUTH COVE (THE BATTERY)

A mini-shoreline survey was performed at the end of December. The investigation included the shoreline of The Battery along South Cove. No discharge or water discoloration was observed.

S-60: BRONX RIVER & EAST 180TH STREET

A mini-shoreline survey was performed in the middle of December. The investigation included the shoreline of the Bronx River on both sides of East 180th Street. No discharge or water discoloration was observed.

S-61: BRONX RIVER & EAST 241ST STREET

A mini-shoreline survey was performed in the middle of November. The investigation covered both sides of the Bronx River between East 241st Street and East 243rd Street. 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 Compliance Monitoring Section (CMS) has notified the NYSDEC of this ongoing problem.

S-66: FLUSHING BAY & 31st AVENUE

A mini-shoreline survey was performed at the end of December. The investigation included the shoreline of Flushing Bay at the end of 31st Avenue. No discharge or water discoloration was observed.

S-74: SHEEPSHEAD BAY & NOSTRAND AVENUE

A mini-shoreline survey was performed in the middle of December. The investigation included the shoreline of Sheepshead Bay between Shore Boulevard and Emmons Avenue. No signs of discharge or discoloration was observed.

S-76: FRESH CREEK BASIN & AVENUE N

A mini-shoreline survey was performed at the end of December. The investigation included the shoreline along Fresh Creek Basin from Avenue N to Seaview Avenue. No discharge or water discoloration was observed.

S-80: NEWTOWN CREEK UNDER KOSCIUSZKO BRIDGE

A mini-shoreline survey was performed at the end of December. The investigation included the shoreline along both sides of Newtown Creek west and east of the Kosciuszko Bridge. No discharge or water discoloration was observed.

S-81: CONEY ISLAND CREEK NEAR W 25TH STREET

A mini-shoreline survey was performed in the middle of December. The investigation included the shoreline along Coney Island Creek from West 15th Street to West 21st Street. No signs of discharge or discoloration was observed.

S-82: SHEEPSHEAD BAY NEAR EXETER STREET

A mini-shoreline survey was performed in the middle of December. The investigation included the shoreline of Sheepshead Bay from East 21st Street to Shore Boulevard to Girard Street. No discharge or discoloration was observed.

S-83: FRESH CREEK NEAR AVENUE L

A mini-shoreline survey was performed at the end of December. The investigation included the shoreline along Fresh Creek Basin from Avenue L to Flatlands Avenue. No discharge or discoloration was observed.

DRY WEATHER DISCHARGE

HP-007 NYPD HWY1

As per management request to investigate a possible illicit connection to the storm sewer line by NYPD HWY1 and to confirm if the regulator/ overflow chamber located at Morris Park Avenue and Van Buren Street is indeed operational, CMS personnel conducted an inspection and dye test of the HP-007 sewer line. CMS personnel dye tested a manhole at Unionport Rd and observed two storm sewer manholes downstream of the regulator/ overflow chamber with no flow or dye. Afterwards, CMS personnel observed outfall HP-007 and found no obvious signs of flow or dye entering Bronx River. The storm sewer line was changed to a combined sewer line in GIS after consultation with BWSO. The case is thereby closed.

HAMILTON BEACH / HAWTREE BASIN

As part of a request by NYS DEC, CMS personnel performed dye tests at Hamilton Beach/ Hawtree Basin with NYS DEC personnel and Environmental Conservation Officers (ECO's). Eight (8) residences were dye tested to determine if they were illegally discharging into Hawtree Basin. Dye was observed in the basin from four (4) residences. All the houses do not have a sanitary sewer fronting the property. Due to the nature of the discharge, the case was transferred to NYS DEC.

BB-475, 900 MAIN STREET ROOSEVELT ISLAND

As part of an investigation and request from the Department of Environmental Protections Bureau of Water and Sewer Operations (BWSO) regarding a possible illegal connection to a storm sewer manhole tributary to outfall BB-475, CMS personnel conducted dye testing of New York City Health & Hospitals Coler Rehabilitation & Nursing Care Center and found a damaged pipe discharging 500 GPD of wastewater from the dishwashing machines and boiler room to the storm sewer. The facility complied with the issued Commissioners Orders by reconnecting to the sanitary sewer. The investigation is now closed as of December 22, 2020. Please refer to Item Number 5580.

TI-024

In response to a civilian complaint to the 311-call center of a dry weather discharge at TI-024, CMS personnel collected fecal coliform samples from the outfall and started an investigation to determine the sources of the discharge. Lab results revealed elevated levels of fecal contamination. CMS personnel will continue dye testing residences in the area to identify any other illegal connection to the storm sewer tributary to the TI-024 outfall. CMS personnel is also sampling with the United States Geological Survey (USGS) and Environmental Protection

Agency (EPA) at Alley Creek. Samples are being taken for total suspended solids, fecal coliform, and Enterococci at low tide and high tide. An extension of six (6) months was therefore requested in order to complete this investigation. No dry weather discharge was observed at the outfall as of September 30th, 2019. Please refer to Item Number 4558.

Unauthorized Non-Storm Water 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-storm-water 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 2020, which includes the types and number of complaints received and responded to.

	Nature of Complaint		**Total for 2020**
1.	Oil		82
2.	Gasoline/Explosivity		58
3.	Chemicals		53
4.	Odors		23
5.	Wastewater/Concrete		337
6.	Discharge to Receiving Water		24
7.	Miscellaneous		50
		Sub Total	627
8a.	Complaints received & referred to others		87
8b.	Follow-up inspections		630
		Total	1344