

MS4 Municipal Compliance Certification(MCC) Form

MCC form for period ending March 9, 2 0 2 3

Name of MS4 TOWN OF HUNTINGTON

SPDES ID

N Y R 2 0 A 2 9 7

Section 2 - Contact Information

Important Instructions - Please Read

Contact information must be provided for *each* of the following positions as indicated below:

1. Principal Executive Officer, Chief Elected Official or other qualified individual (per GP-0-08-002 Part VI.J).
2. Duly Authorized Representative (Information for this contact must only be submitted if a Duly Authorized Representative is signing this form)
3. The Local Stormwater Public Contact (required per GP-0-08-002 Part VII.A.2.c & Part VIII.A.2.c).
4. The Stormwater Management Program (SWMP) Coordinator (Individual responsible for coordination/implementation of SWMP).
5. Report Preparer (Consultants may provide company name in the space provided).

A separate sheet must be submitted for each position listed above unless more than one position is filled by the same individual. If one individual fills multiple roles, provide the contact information once and check all positions that apply to that individual.

If a new Duly Authorized Representative is signing this report, their contact information must be provided and a signature authorization form, signed by the Principal Executive Officer or Chief Elected Official must be attached.

For each contact, select all that apply:

- Principal Executive Officer/Chief Elected Official
- Duly Authorized Representative
- Local Stormwater Public Contact
- Stormwater Management Program (SWMP) Coordinator
- Report Preparer

First Name	MI	Last Name
E D M U N D	J	S M Y T H

Title
S U P E R V I S O R

Address
1 0 0 M A I N S T

City	State	Zip
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Phone	County
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MS4 Municipal Compliance Certification(MCC) Form

MCC form for period ending March 9,

2	0	2	3
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Name of MS4

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SPDES ID

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Section 2 - Contact Information

Important Instructions - Please Read

Contact information must be provided for ***each*** of the following positions as indicated below:

1. Principal Executive Officer, Chief Elected Official or other qualified individual (per GP-0-08-002 Part VI.J).
2. Duly Authorized Representative (Information for this contact must only be submitted if a Duly Authorized Representative is signing this form)
3. The Local Stormwater Public Contact (required per GP-0-08-002 Part VII.A.2.c & Part VIII.A.2.c).
4. The Stormwater Management Program (SWMP) Coordinator (Individual responsible for coordination/implementation of SWMP).
5. Report Preparer (Consultants may provide company name in the space provided).

A separate sheet must be submitted for each position listed above unless more than one position is filled by the same individual. If one individual fills multiple roles, provide the contact information once and check all positions that apply to that individual.

If a new Duly Authorized Representative is signing this report, their contact information must be provided and a signature authorization form, signed by the Principal Executive Officer or Chief Elected Official must be attached.

For each contact, select all that apply:

- Principal Executive Officer/Chief Elected Official
- Duly Authorized Representative
- Local Stormwater Public Contact
- Stormwater Management Program (SWMP) Coordinator
- Report Preparer

First Name

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 Last Name

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Title

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Address

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Phone

6	3	1
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3	5	1
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3	1	9	6
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 County

S	U	F	F	O	L	K													
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MS4 Municipal Compliance Certification (MCC) Form

MCC form for period ending March 9,

Name of MS4 SPDES ID

Section 3 - Partner Information

Did your MS4 work with partners/coalition to complete some or all permit requirements during this reporting period? Yes No

If Yes, complete information below.

Submit a separate sheet for each partner. Information provided in other formats will not be accepted. If your MS4 cooperated with a coalition, submit one sheet with the name of the coalition. It is not necessary to include a separate sheet for each MS4 in the coalition.

If No, proceed to Section 4 - Certification Statement.

Partner/Coalition Name

Partner/Coalition Name (con't.) SPDES Partner ID - If applicable

Address

City State Zip -

eMail

Phone () -

Legally Binding Agreement in accordance with GP-0-08-002 Part IV.G.? Yes No

What tasks/responsibilities are shared with this partner (e.g. MM1 School Programs or Multiple Tasks)?

- MM1
- MM2
- MM3
- MM4
- MM5
- MM6

Additional tasks/responsibilities

- Watershed Improvement Strategy Best Management Practices* required for MS4s in impaired watersheds included in GP-0-08-002 Part IX.

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Name of MS4

SPDES ID


Section 4 - Certification Statement

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

This form must be signed by either a principal executive officer or ranking elected official, or duly authorized representative of that person as described in GP-0-08-002 Part VI.J.

First Name MI Last Name

Title (Clearly print title of individual signing report)

Signature


Date

The annual report form and any attachments can be sent to the DEC Central Office clicking the Submit Form link below, or by sending it directly to: MS4compliance@dec.ny.gov. All submissions must include the SPDES ID in the title and must be complete before hitting the Submit Form link below:

Submit Form

If unable to submit electronically, hardcopy submissions can be sent to:

Bureau of Water Compliance
Division of Water
4th Floor
625 Broadway
Albany, New York 12233-3505

MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9,

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If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

Name of MS4/Coalition

SPDES ID

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4. Evaluating Progress Toward Measurable Goals MCM 1

Use this page to report on your progress and project plans toward achieving measurable goals identified in your Stormwater Management Program Plan (SWMPP), including requirements in Part III.C.1. Submit additional pages as needed.

A. Briefly summarize the Measurable Goal identified in the SWMPP in this reporting period.

B. Briefly summarize the observations that indicated the overall effectiveness of this Measurable Goal.

C. How many times was this observation measured or evaluated in this reporting period?

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(ex.: samples/participants/events)

D. Has your MS4 made progress toward this Measurable Goal during this reporting period?

Yes No

E. Is your MS4 on schedule to meet the deadline set forth in the SWMPP?

Yes No

F. Briefly summarize the stormwater activities planned to meet the goals of this MCM during the next reporting cycle (including an implementation schedule).

MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9,

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If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

Name of MS4/Coalition

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SPDES ID

N	Y	R	2	0	A	2	9	7
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Minimum Control Measure 2. Public Involvement/Participation

The information in this section is being reported (check one):

- On behalf of an individual MS4
- On behalf of a coalition

How many MS4s contributed to this report?

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1. What opportunities were provided for public participation in implementation, development, evaluation and improvement of the Stormwater Management Program (SWMP) Plan during this reporting period? Check all that apply:

- Cleanup Events # Events

				2
--	--	--	--	---
- Comments on SWMP Received # Comments

				0
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- Community Hotlines Phone # (

6	3	1
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3	5	1
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3	0	4	9
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- Phone # (

6	3	1
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3	5	1
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3	2	5	5
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Phone # (

6	3	1
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3	5	1
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- Phone # (

6	3	1
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Phone # (

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- Phone # (

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Phone # (

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- Phone # (

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Phone # (

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- Community Meetings # Attendees

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- Plantings PARK STEWARDSHIP PROGRAM, ARBOR DAY, BUFFER IN A BAG Sq. Ft.

3	0	0	0
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- Storm Drain Markings # Drains

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- Stakeholder Meetings # Attendees

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- Volunteer Monitoring # Events

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- Other:

H	U	N	T	I	N	G	T	O	N	T	O	W	N	W	E	B	S	I	T	E				
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2. Was public notice of availability of this annual report and Stormwater Management Program (SWMP) Plan provided?

Yes No

- List-Serve # In List

--	--	--	--
- Newspaper Advertising # Days Run

				2
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- TV/Radio Notices # Days Run

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- Other:

H	U	N	T	I	N	G	T	O	N	T	O	W	N	C	L	E	R	K	'	S	O	F	F	I	C	E
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● Web Page URL: Enter URL(s) on the following two pages.

MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9,

If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

Name of MS4/Coalition

SPDES ID

3. Where can the public access copies of this annual report, Stormwater Management Program SWMP) Plan and submit comments on those documents?

Enter address/contact info and select radio button to indicate which document is available and whether comments may be submitted at that location. Submit additional pages as needed.

MS4/Coalition Office Annual Report SWMP Plan Comments

Department

Address

City Zip -

Phone () -

Library Annual Report SWMP Plan Comments

Address

City Zip -

Phone () -

Other Annual Report SWMP Plan Comments

Address

City Zip -

Phone () -

Web Page URL: Annual Report SWMP Plan Comments

Please provide specific address of page where report can be accessed - not home page.

eMail Comments

MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9,

2	0	2	3
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If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

Name of MS4/Coalition

TOWN OF HUNTINGTON

SPDES ID

N	Y	R	2	0	A	2	9	7
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4.a. If this report was made available on the internet, what date was it posted?

Leave blank if this report was not posted on the internet.

0	5
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1	8
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2	0	2	3
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4.b. For how many days was/will this report be posted?

9	9	9
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If submitting a report for single MS4, answer 5.a.. If submitting a joint report, answer 5.b..

5.a. Was an Annual Report public meeting held in this reporting period?
 Yes No

If Yes, what was the date of the meeting?

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If No, is one planned?

 Yes No
5.b. Was an Annual Report public meeting held for all MS4s contributing to this report during this reporting period?
 Yes No

If No, is one planned for each?

 Yes No
6. Were comments received during this reporting period?
 Yes No

If Yes, attach comments, responses and changes made to SWMP in response to comments to this report.

MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9,

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If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

Name of MS4/Coalition

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SPDES ID

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7. Evaluating Progress Toward Measurable Goals MCM 2

Use this page to report on your progress and project plans toward achieving measurable goals identified in your Stormwater Management Program Plan (SWMPP), including requirements in Part III.C.1. Submit additional pages as needed.

A. Briefly summarize the Measurable Goal identified in the SWMPP in this reporting period.

--

B. Briefly summarize the observations that indicated the overall effectiveness of this Measurable Goal.

--

C. How many times was this observation measured or evaluated in this reporting period?

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(ex.: samples/participants/events)

D. Has your MS4 made progress toward this measurable goal during this reporting period?

Yes No

E. Is your MS4 on schedule to meet the deadline set forth in the SWMPP?

Yes No

F. Briefly summarize the stormwater activities planned to meet the goals of this MCM during the next reporting cycle (including an implementation schedule).

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MS4 Annual Report Form

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Name of MS4/Coalition

SPDES ID

Minimum Control Measure 3. Illicit Discharge Detection and Elimination

The information in this section is being reported (check one):

- On behalf of an individual MS4
- On behalf of a coalition

How many MS4s contributed to this report?

1. Enter the number and approx. percent of outfalls mapped: # %

2. How many of these outfalls have been screened for dry weather discharges during this reporting period (outfall reconnaissance inventory)?

3.a. What types of generating sites/sewersheds were targeted for inspection during this reporting period?

- Auto Recyclers
- Building Maintenance
- Churches
- Commercial Carwashes
- Commercial Laundry/Dry Cleaners
- Construction Vehicle Washouts
- Cross-Connections
- Distribution Centers
- Food Processing Facilities
- Garbage Truck Washouts
- Hospitals
- Improper RV Waste Disposal
- Industrial Process Water
- Other:
- Landscaping (Irrigation)
- Marinas
- Metal Plateing Operations
- Outdoor Fluid Storage
- Parking Lot Maintenance
- Printing
- Residential Carwashing
- Restaurants
- Schools and Universities
- Septic Maintenance
- Swimming Pools
- Vehicle Fueling
- Vehicle Maint./Repair Shops
- None

Sewersheds:

MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9,

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Name of MS4/Coalition

SPDES ID

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12. Evaluating Progress Toward Measurable Goals MCM 3

Use this page to report on your progress and project plans toward achieving measurable goals identified in your Stormwater Management Program Plan (SWMPP), including requirements in Part III.C.1. Submit additional pages as needed.

A. Briefly summarize the Measurable Goal identified in the SWMPP in this reporting period.**B. Briefly summarize the observations that indicated the overall effectiveness of this Measurable Goal.****C. How many times was this observation measured or evaluated in this reporting period?**

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(ex.: samples/participants/events)

D. Has your MS4 made progress toward this measurable goal during this reporting period?

Yes No

E. Is your MS4 on schedule to meet the deadline set forth in the SWMPP?

Yes No

F. Briefly summarize the stormwater activities planned to meet the goals of this MCM during the next reporting cycle (including an implementation schedule).

MS4 Annual Report Form

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Name of MS4/Coalition

SPDES ID

Minimum Control Measures 4 and 5.
Construction Site and Post-Construction Control

The information in this section is being reported (check one):

- On behalf of an individual MS4
- On behalf of a coalition

How many MS4s contributed to this report?

1a. Has each MS4 contributing to this report adopted a law, ordinance or other regulatory mechanism that provides equivalent protection to the NYS SPDES General Permit for Stormwater Discharges from Construction Activities? Yes No

1b. Has each Town, City and/or Village contributing to this report documented that the law is equivalent to a NYSDEC Sample Local Law for Stormwater Management and Erosion and Sediment Control through either an attorney certification or using the NYSDEC Gap Analysis Workbook? Yes No NT

If Yes, Towns, Cities and Villages provide date of equivalent NYS Sample Local Law. 09/2004 03/2006 NT

2. Does your MS4/Coalition have a SWPPP review procedure in place? Yes No

3. How many Construction Stormwater Pollution Prevention Plans (SWPPPs) have been reviewed in this reporting period?

4. Does your MS4/Coalition have a mechanism for receipt and consideration of public comments related to construction SWPPPs? Yes No NT

If Yes, how many public comments were received during this reporting period?

5. Does your MS4/Coalition provide education and training for contractors about the local SWPPP process? Yes No

6. Identify which of the following types of enforcement actions you used during the reporting period for construction activities, indicate the number of actions, or note those for which you do not have authority:

- Notices of Violation #

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 ○ No Authority
- Stop Work Orders #

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 ○ No Authority
- Criminal Actions #

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 ○ No Authority
- Termination of Contracts #

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 ○ No Authority
- Administrative Fines #

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 ○ No Authority
- Civil Penalties #

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 ○ No Authority
- Administrative Orders #

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 ○ No Authority
- Enforcement Actions or Sanctions #

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 ○ No Authority
- Other #

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 ○ No Authority

MS4 Annual Report Form

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If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

Name of MS4/Coalition

SPDES ID

Minimum Control Measure 4. Construction Site Stormwater Runoff Control

The information in this section is being reported (check one):

- On behalf of an individual MS4
- On behalf of a coalition

How many MS4s contributed to this report?

1. How many construction projects have been authorized for disturbances of one acre or more during this reporting period?

2. How many construction projects disturbing at least one acre were active in your jurisdiction during this reporting period?

3. What percent of active construction sites were inspected during this reporting period? NT %

4. What percent of active construction sites were inspected more than once? NT %

5. Do all inspectors working on behalf of the MS4s contributing to this report use the NYS Construction Stormwater Inspection Manual? Yes No NT

6. Does your MS4/Coalition provide public access to Stormwater Pollution Prevention Plans (SWPPPs) of construction projects that are subject to MS4 review and approval? Yes No NT

If your MS4 is Non-Traditional, are SWPPPs of construction projects made available for public review? Yes No

If Yes, use the following page to identify location(s) where SWPPPs can be accessed.

MS4 Annual Report Form

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Name of MS4/Coalition

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SPDES ID

N	Y	R	2	0	A	2	9	7
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6. con't.:

Submit additional pages as needed.

● MS4/Coalition Office

Department

E n g i n e e r i n g S e r v i c e s

Address

1 0 0 M a i n S t r e e t

City

H u n t i n g t o n

N Y

Zip

1 1 7 4 3 -

Phone

(6 3 1) 3 5 1 - 3 1 5 1

○ Library

Address

City

Zip

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Phone

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● Other

Address

P l a n n i n g D e p a r t m e n t - 1 0 0 M a i n

City

H u n t i n g t o n

N Y

Zip

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Phone

(6 3 1) 3 5 1 - 3 1 9 6

○ Web Page URL(s): Please provide specific address where SWPPPs can be accessed - not home page.

URL

URL

MS4 Annual Report Form

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Name of MS4/Coalition

SPDES ID

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7. Evaluating Progress Toward Measurable Goals MCM 4

Use this page to report on your progress and project plans toward achieving measurable goals identified in your Stormwater Management Program Plan (SWMPP), including requirements in Part III.C.1. Submit additional pages as needed.

A. Briefly summarize the Measurable Goal identified in the SWMPP in this reporting period.**B. Briefly summarize the observations that indicated the overall effectiveness of this Measurable Goal.****C. How many times was this observation measured or evaluated in this reporting period?**

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(ex.: samples/participants/events)

D. Has your MS4 made progress toward this measurable goal during this reporting period?

Yes No

E. Is your MS4 on schedule to meet the deadline set forth in the SWMPP?

Yes No

F. Briefly summarize the stormwater activities planned to meet the goals of this MCM during the next reporting cycle (including an implementation schedule).

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Name of MS4/Coalition

SPDES ID

Minimum Control Measure 5. Post-Construction Stormwater Management

The information in this section is being reported (check one):

- On behalf of an individual MS4
- On behalf of a coalition

How many MS4s contributed to this report?

1. How many and what type of post-construction stormwater management practices has your MS4/Coalition inventoried, inspected and maintained in this reporting period?

	# Inventoried	# Inspections	# Times Maintained
<input type="radio"/> Alternative Practices	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="radio"/> Filter Systems	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="radio"/> Infiltration Basins	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="radio"/> Open Channels	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="radio"/> Ponds	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="radio"/> Wetlands	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="radio"/> Other	<input type="text"/>	<input type="text"/>	<input type="text"/>

2. Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track post-construction BMPs, inspections and maintenance?

Yes No

3. What types of non-structural practices have been used to implement Low Impact Development/Better Site Design/Green Infrastructure principles?

- Building Codes Municipal Comprehensive Plans
- Overlay Districts Open Space Preservation Program
- Zoning Local Law or Ordinance
- None Land Use Regulation/Zoning
- Watershed Plans Other Comprehensive Plan

Other:

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Name of MS4/Coalition

SPDES ID

4a. Are the MS4s contributing to this report involved in a regional/watershed wide planning effort?

Yes No

4b. Does the MS4 have a banking and credit system for stormwater management practices?

Yes No

4c. Do the SWMP Plans for each MS4 contributing to this report include a protocol for evaluation and approval of banking and credit of alternative siting of a stormwater management practice?

Yes No

4d. How many stormwater management practices have been implemented as part of this system in this reporting period?

5. What percent of municipal officials/MS4 staff responsible for program implementation attended training on Low Impace Development (LID), Better Site Design (BSD) and other Green Infrastructure principles in this reporting period?

%

MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9,

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If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

Name of MS4/Coalition

SPDES ID

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6. Evaluating Progress Toward Measurable Goals MCM 5

Use this page to report on your progress and project plans toward achieving measurable goals identified in your Stormwater Management Program Plan (SWMPP), including requirements in Part III.C.1. Submit additional pages as needed.

A. Briefly summarize the Measurable Goal identified in the SWMPP in this reporting period.**B. Briefly summarize the observations that indicated the overall effectiveness of this Measurable Goal.****C. How many times was this observation measured or evaluated in this reporting period?**

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(ex.: samples/participants/events)

D. Has your MS4 made progress toward this measurable goal during this reporting period?

Yes No

E. Is your MS4 on schedule to meet the deadline set forth in the SWMPP?

Yes No

F. Briefly summarize the stormwater activities planned to meet the goals of this MCM during the next reporting cycle (including an implementation schedule).

MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9,

If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

Name of MS4/Coalition

SPDES ID

Minimum Control Measure 6. Stormwater Management for Municipal Operations

The information in this section is being reported (check one):

- On behalf of an individual MS4
- On behalf of a coalition

How many MS4s contributed to this report?

1. Choose/list each municipal operation/facility that contributes or may potentially contribute Pollutants of Concern to the MS4 system. For each operation/facility indicate whether the operation/facility has been addressed in the MS4's/Coalition's Stormwater Management Program(SWMP) Plan and whether a self-assessment has been performed during the reporting period. A self-assessment is performed to: 1) determine the sources of pollutants potentially generated by the permittee's operations and facilities; 2) evaluate the effectiveness of existing programs and 3) identify the municipal operations and facilities that will be addressed by the pollution prevention and good housekeeping program, if it's not done already.

<u>Operation/Activity/Facility</u>	<u>Addressed in SWMP?</u>		<u>Self-Assessment Operation/Activity/Facility performed within the past 3 years?</u>	
	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
Street Maintenance.....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bridge Maintenance.....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Winter Road Maintenance.....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Salt Storage.....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Solid Waste Management.....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
New Municipal Construction and Land Disturbance..	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Right of Way Maintenance.....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Marine Operations.....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hydrologic Habitat Modification.....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Parks and Open Space.....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Municipal Building.....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Stormwater System Maintenance.....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Vehicle and Fleet Maintenance.....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other.....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9,

2	0	2	3
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If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

Name of MS4/Coalition

TOWN OF HUNTINGTON

SPDES ID

N	Y	R	2	0	A	2	9	7
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2. Provide the following information about municipal operations good housekeeping programs:

- Parking Lots Swept (Number of acres X Number of times swept) # Acres

		1	4	8
--	--	---	---	---
- Streets Swept (Number of miles X Number of times swept) # Miles

	1	5	8	4
--	---	---	---	---
- Catch Basins Inspected and Cleaned Where Necessary #

		3	1	5
--	--	---	---	---
- Post Construction Control Stormwater Management Practices Inspected and Cleaned Where Necessary #

			5	9
--	--	--	---	---
- Phosphorus Applied In Chemical Fertilizer # Lbs.

				0
--	--	--	--	---
- Nitrogen Applied In Chemical Fertilizer # Lbs.

	3	5	0	0
--	---	---	---	---
- Pesticide/Herbicide Applied # Acres

	4	0	0	.	
--	---	---	---	---	--

(Number of acres to which pesticide/herbicide was applied X Number of times applied to the nearest tenth.)

3. How many stormwater management trainings have been provided to municipal employees during this reporting period?

				2
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4. What was the date of the last training?

1	0	/	1	8	/	2	0	2	2
---	---	---	---	---	---	---	---	---	---

5. How many municipal employees have been trained in this reporting period?

	1	4
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6. What percent of municipal employees in relevant positions and departments receive stormwater management training?

	1	5	%
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MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9,

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If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

Name of MS4/Coalition

SPDES ID

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7. Evaluating Progress Toward Measurable Goals MCM 6

Use this page to report on your progress and project plans toward achieving measurable goals identified in your Stormwater Management Program Plan (SWMPP), including requirements in Part III.C.1. Submit additional pages as needed.

A. Briefly summarize the Measurable Goal identified in the SWMPP in this reporting period.**B. Briefly summarize the observations that indicated the overall effectiveness of this Measurable Goal.****C. How many times was this observation measured or evaluated in this reporting period?**

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(ex.: samples/participants/events)

D. Has your MS4 made progress toward this measurable goal during this reporting period?

Yes No

E. Is your MS4 on schedule to meet the deadline set forth in the SWMPP?

Yes No

F. Briefly summarize the stormwater activities planned to meet the goals of this MCM during the next reporting cycle (including an implementation schedule).

MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9,

If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

Name of MS4/Coalition

SPDES ID

Additional Watershed Improvement Strategy Best Management Practices

The information in this section is being reported (check one):

- On behalf of an individual MS4
- On behalf of a coalition

How many MS4s contributed to this report?

MS4s must answer the questions or check NA as indicated in the table below.

MS4 Description	Answer	Check NA	(POC)
NYC EOH Watershed	-	-	-
Traditional Land Use	1,2,3,4,5,6,7a-d,8a,8b,9	10,11,12	Phosphorus
Traditional Non-Land Use	1,2,3,4,7a-d,8a,8b,9	5,10,11,12	Phosphorus
Non-Traditional	1,2,77a-d,8a,8b,9	3,4,5,10,11,12	Phosphorus
Onondaga Lake Watershed	-	-	-
Traditional Land Use	1,6,7a-d,8a,9	2,3,4,5,8b,10,11,12	Phosphorus
Traditional Non-Land Use	1,6,7a-d,8a,9	2,3,4,5,8b,10,11,12	Phosphorus
Non-Traditional	1,6,7a-d,8a,9	2,3,4,5,8b,10,11,12	Phosphorus
Greenwood Lake Watershed	-	-	-
Traditional Land Use	1,4,6,7a-d,8a,9	2,3,5,8b,10,11,12	Phosphorus
Traditional Non-Land Use	1,4,6,7a-d,8a,9	2,3,5,8b,10,11,12	Phosphorus
Non-Traditional	1,4,6,7a-d,8a,9	2,3,5,8b,10,11,12	Phosphorus
Oyster Bay	-	-	-
Traditional Land Use	1,4,7a-d,9,10,11,12	2,3,5,6,8a,8b	Pathogens
Traditional Non-Land Use	1,4,7a-d,9,10,11,12	2,3,5,6,8a,8b	Pathogens
Non-Traditional	1,4,7a-d,9	2,3,4,5,8a,8b,10,11,12	Pathogens
Peconic Estuary	-	-	-
Traditional Land Use	1,4,7a-d,8a,9,10,11,12	2,3,5,6,8b	Pathogens and Nitrogen
Traditional Non-Land Use	1,4,7a-d,8a,9,10,11,12	2,3,5,6,8b	Pathogens and Nitrogen
Non-Traditional	1,4,7a-d,8a,9	2,3,4,5,8b,10,11,12	Pathogens and Nitrogen
Oscawana Lake Watershed	-	-	-
Traditional Land Use	1,4,6,7a-d,8a,9	2,3,5,8b,10,11,12	Phosphorus
Traditional Non-Land Use	1,4,6,7a-d,8a,9	2,3,5,8b,10,11,12	Phosphorus
Non-Traditional	1,4,6,7a-d,8a,9	2,3,5,8b,10,11,12	Phosphorus
LI 27 Embayments	-	-	-
Traditional Land Use	1,2,3,4,7a-d,9,10,11,12	5,6,8a,8b	Pathogens
Traditional Non-Land Use	1,2,3,4,7a-d,9,10,11,12	5,6,8a,8b	Pathogens
Non-Traditional	1,2,3,4,7a-d,9	5,6,8a,8b,10,11,12	Pathogens

1. Does your MS4/Coalition have an education program addressing impacts of phosphorus/nitrogen/pathogens on waterbodies? Yes No N/A

2. Has 100% of the MS4/Coalition conveyance system been mapped in GIS? Yes No N/A

If N/A, go to question 3.

If No, estimate what percentage of the conveyance system has been mapped so far. %

Estimate what percentage was mapped in this reporting period. %

MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9,

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If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

Name of MS4/Coalition

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SPDES ID

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9. Has your MS4/Coalition developed and implemented a program of native planting?
 Yes No N/A

10. Has your MS4/Coalition enacted a local law prohibiting pet waste on municipal properties and prohibiting goose feeding?
 Yes No N/A

11. Does your MS4/Coalition have a pet waste bag program?
 Yes No N/A

12. Does your MS4/Coalition have a program to manage goose populations?
 Yes No N/A

Stormwater Management Outreach:
Illicit Discharge Detection & Elimination
Town of Huntington
Status Report
March 2023

Carolyn Sukowski
Cornell Cooperative Extension
Suffolk County
423 Griffing Avenue, Suite 100
Riverhead, NY 11901

Outfall Reconnaissance Inventory and Dry Weather Flow (DWF) Monitoring

Reporting period: March 10th, 2022 through March 9th, 2023

During this reporting period the Outfall Reconnaissance Inventory (ORI) focused on Zone 2 of the Town of Huntington, which includes Halesite, Huntington, Huntington Station, and South Huntington. The Town has been split into a total of five zones with ORI being completed for one zone per year. This year's ORI included searching along shorelines of fresh and marine Surface Waters of the State within Zone 2 for outfalls as well as completing Dry Weather Flow Monitoring (DWF) for potential illicit discharges for all existing outfalls. Additionally, jurisdiction was determined for each outfall in the zone. Whenever possible, outfalls were monitored directly. However, in a significant number of cases outfalls were submerged all or most of the time. In these cases, Cornell Cooperative Extension of Suffolk County (CCE) completed monitoring from the nearest connecting stormwater structure, which is not submerged, or monitoring was conducted at low tide.

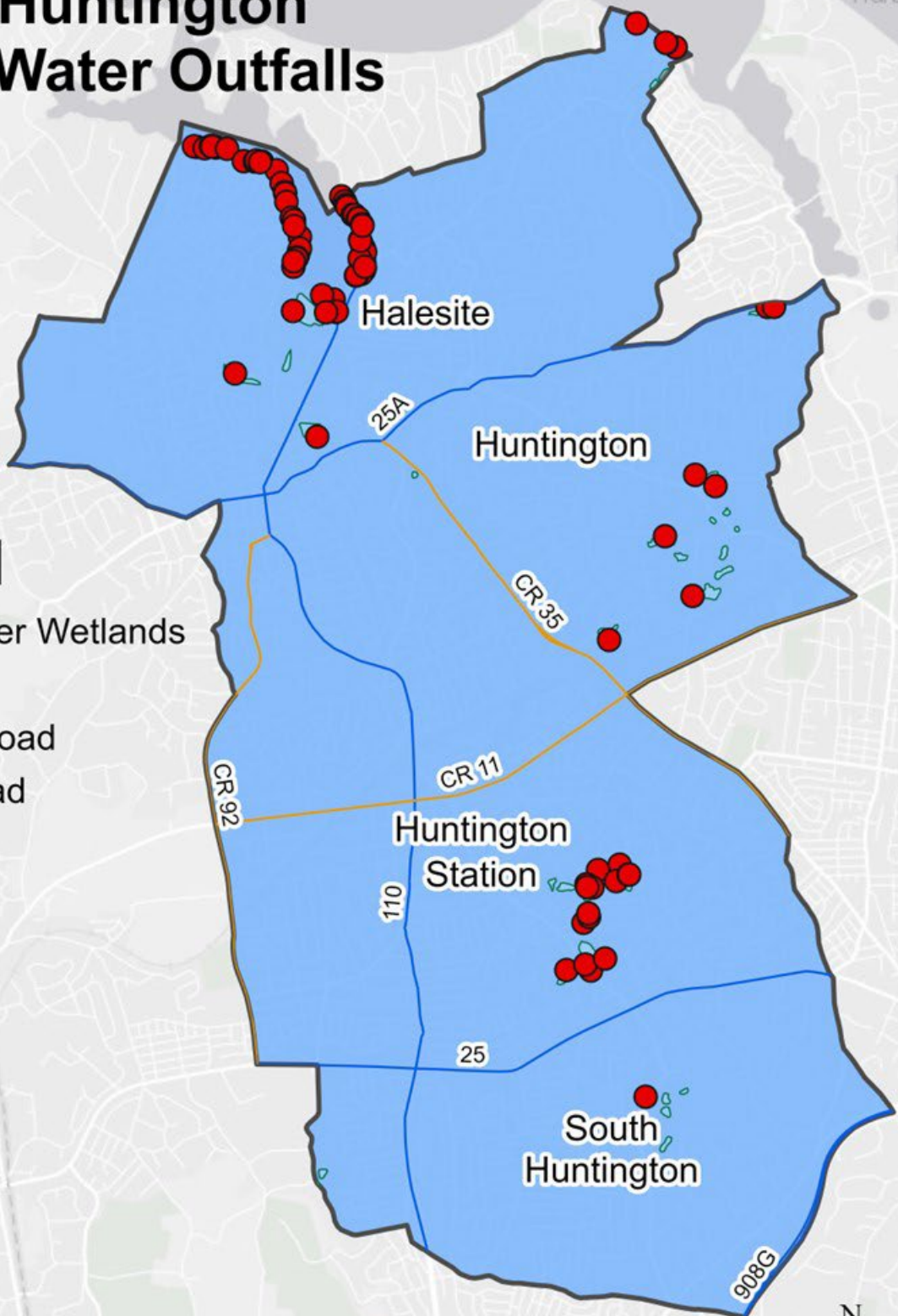
There are 93 outfalls within Zone 2 under the jurisdiction of the Town of Huntington. All 93 outfalls were monitored for dry weather flow 3 times each for a total of 279 monitoring visits. Outfalls found to have dry weather flow that also had additional indicators of potential illicit discharges were sampled. Samples of dry weather flow were analyzed for various water quality parameters including temperature, salinity, chlorine, ammonia, potassium, surfactants, and fecal coliform. No illicit discharges were found.

Outfall data was updated in the field using ArcGIS Field Maps, and monitoring data was collected in the field using ArcGIS Survey123. A map of the monitored active outfalls is provided below.

Town of Huntington Surface Water Outfalls Zone 2

Legend

-  Freshwater Wetlands
-  Outfalls
-  County Road
-  State Road



**Cornell Cooperative Extension
Suffolk County**



Scale: 1:70,000



Data Sources: Suffolk County, Esri, HERE, Garmin, GeoTechnologies, Inc., USGS, EPA

Cornell Cooperative Extension
Suffolk County



**Stormwater Management Outreach: Illicit Discharge
Detection & Elimination**

**Town of Huntington
Stormwater Management Program**

**Annual Report
2022**

Prepared for the Town of Huntington
February 15th, 2023

Submitted by:
Cornell Cooperative Extension of Suffolk County
423 Griffing Avenue, Suite 100
Riverhead, NY 11901

Contact:
Carolyn Sukowski, Water Quality Program Coordinator
E-mail: cs424@cornell.edu
Phone: 631-727-7850

Purpose of Study

The Clean Water Act (CWA) was promulgated in 1972, setting forth several regulations to improve the nation's water quality. While the effort to regulate point source or "end of pipe" discharges to US waterbodies has been successful since the CWA's passage, addressing water pollution from nonpoint or discrete sources has proved to be challenging. Nonpoint source pollution from urban and suburban sources, or stormwater pollution, has been implicated as a large source of pollution to the nation's waterbodies including numerous waterbodies in Long Island.

In 2002, the Stormwater Phase II Final Rule was announced by the DEC following a 1999 mandate by the Environmental Protection Agency (EPA). This program requires operators of small municipal separate storm sewer systems (MS4s) and operators of construction sites that disturb one acre or greater of land to implement programs and best management practices to control polluted stormwater runoff. In New York, this program required small MS4s to submit a Notice of Intent (NOI) in 2003 outlining a plan to fulfill the requirements of Phase II. There are six mandated elements to the Phase II program that when implemented together are expected to result in significant reductions in stormwater pollutants to receiving waterbodies.

The Illicit Discharge Detection and Elimination (IDDE) minimum control measure is one of the most difficult mandates to complete but is essential to the success of each community's Phase II program. The SPDES permit obligates each MS4 to produce a map of all stormwater outfalls to waters of the State. In addition, MS4's must be actively searching for illicit discharges in an effort to detect and eliminate illegal connections to the stormwater conveyance system. Connections of this nature may be a significant source of pollution to stormwater runoff.

The purpose of this study was to monitor The Town of Huntington's outfalls for dry weather flow, and to sample any detected flows to ensure there are no illicit discharges present. Monitoring efforts for 2022 focused on Zone 2 of the Town of Huntington's outfall inventory, which includes Huntington, Huntington Station, South Huntington, and Halesite.

Component I: Education & Outreach

The primary goal of CCE's water quality monitoring efforts is to help educate municipalities with respect to whether a waterbody is impacted by pollutants, to determine what the source of pollutants are, and what can be done to minimize the impact by municipalities and/or residents. Moreover, the information obtained from this project will provide the guidance necessary to aid the Town in prioritizing locations for stormwater retrofits. Results will be discussed in annual reports to better inform the Town's Stormwater Management Program on any potential illicit discharges, potential pollutant sources, and a summary of any follow up investigations conducted and recommendations for future years. CCE will provide guidance to the Town on how to conduct an effective water quality monitoring program. All CCE field methodologies for dry weather flow monitoring will be provided thus giving the Town the ability to conduct future monitoring efforts. Methodologies will incorporate the Town's existing mobile web-apps used to create and edit GIS data records for each outfall inspection. Specifically, this mobile app would allow inspectors to update the Town's live GIS drainage feature classes in real-time.

Component II: Outfall Reconnaissance Inventory

The purpose of the initial outfall reconnaissance inventory was to verify the existence of previously inventoried outfalls and to identify any previously unconfirmed outfalls by conducting shoreline surveys and to determine the best method for monitoring each structure. There are currently 291 surface water outfalls inventoried within the Town of Huntington to date. Outfalls inventoried include those which discharge to surface waters of the State as well as structures or pipes which convey stormwater into an MS4 under the jurisdiction of another municipality.

Each outfall was visited to determine its suitability for inclusion in the study. During the initial scoping of each outfall, the best method for monitoring was determined based on accessibility of the structure. Whenever possible, outfalls were directly monitored and/or sampled. However, in a significant number of cases the outfalls were submerged all or most of the time or inaccessible for other reasons. In these cases, the nearest connecting stormwater structure adjacent to the outfall which was not submerged was identified. For example, traditional outfalls are often connected to one or multiple catch basins. If a traditional outfall was found to be submerged or inaccessible, the catch basin leading directly to the outfall was identified as the monitoring point. In these cases, dry weather flow monitoring (DWF) and water quality sampling (WQS) was conducted at the nearest connecting catch basin, since it is accepted that if the closest catch basin is dry (no DWF), then the outfall is likely free from illicit discharges. Both DWF monitoring (“Dry Weather Flow monitoring, see Component III) and WQS (Water Quality Sampling, see Component IV) were conducted at catch basins (when required) without the need to open or enter the structures.

Based on data provided from the Town of Huntington, there were 96 of these structures within Zone 2. Scoping efforts confirmed that 93 of these outfalls are under the jurisdiction of the Town of Huntington and were included in the study. Appendix A contains a record map of the 93 outfalls within Zone 2 considered for inclusion in the study.

Component III: Dry Weather Flow (DWF) Monitoring

A common indicator of an illicit discharge is the presence of dry weather flow. If there has been 48 hours without a runoff producing rain event yet there is flow coming from an outfall, it is possible that there is an illicit discharge. Of course, illicit discharges are not always constantly flowing, they are often periodic discharges. To increase the likelihood that an illicit discharge was discovered, each outfall was visited for DWF monitoring purposes on three separate occasions. Each site visit was made after a 48-hour or greater period with no runoff producing rain events to determine the presence or absence of dry weather flow. To determine if rainfall had occurred, CCE used a weather station operated by the National Oceanic and Atmospheric Administration (NOAA). Rainfall measurements are recorded each hour and are available online at NOAA’s National Weather Service portal.

During each monitoring event, the following information was collected:

- outfall ID number (corresponding to Town GIS geodatabase)
- inspector name
- date & time
- revisit (1, 2, 3)

- monitoring location (at outfall when possible, or at nearest structure if necessary)
- presence of DWF
- flow description (trickle, moderate, substantial)
- odor (none, sewage, rancid/sour, petroleum/gas, laundry, sulfide, or other)
- color of flow (clear, brown, gray, yellow, green, orange, red)
- turbidity (clear, cloudy, opaque)
- floatables non-trash (none, sewage, suds, (petroleum) oil sheen, or other)
- deposits/stains (none, oily, flow line, paint, or other)
- abnormal vegetation (none, excessive, inhibited)
- pipe benthic growth (none, brown, orange, green, other)
- temp (°C)
- salinity (PPT)
- comments (field comments including explanation of “others”)
- photos of any dry weather flow identified

The presence of DWF would indicate that it is possible that there is an illicit discharge. However, in most circumstances the DWF can be attributed to other factors. Often, since many of the conveyance systems are old and have cracks, groundwater intrudes into the conveyance system and causes there to be a DWF. In other cases, irrigation water, sump pump water, de-chlorinated pool water, tidal flow or other sources can enter a conveyance system and cause there to be a DWF. However, none of the above circumstances are illicit, so even if there is DWF it does not necessarily mean there is an illicit discharge. To assess if any of the observed DWF represents an illicit discharge, further examination was conducted by means of water quality sampling.

The data collected during DWF monitoring visits is compiled in Appendix B. Outfalls were monitored for DWF and significant indicators of illicit discharge three times throughout 2022. Of the 93 outfalls, 40 had DWF with no indicators of illicit discharge during the first and second rounds of monitoring. Finally, the third round of monitoring found 34 outfalls with DWF, but no indicators of illicit discharge. A number of outfall pipes were found to have benthic growth on or inside, which can be attributed to tidal waters reaching into these systems.

Component IV: Water Quality Sampling (WQS)

Water Quality Sampling (WQS) data can be used to assess if a DWF is likely to be a legal discharge (e.g., groundwater intrusion, irrigation water, etc.) or a potential illicit discharge with respect to the SPDES permit. In general, the flow chart developed by the Center of Watershed Protection (Illicit Discharge Detection and Elimination: A Guidance Manual – Page 131) was used to help determine if the flow sampled is one of the following:

- possible washwater contamination
- possible sanitary wastewater contamination
- possible natural water source

The flow chart uses surfactants, ammonia and potassium to make the determinations. CCE additionally analyzed samples for temperature, salinity, chlorine, and fecal coliform bacteria to

indicate any additional forms of potential illicit discharges not addressed in the flow chart. For example, high chlorine could indicate a swimming pool discharge or high fecal coliform bacteria counts could indicate an illicit septic system connection. The above parameters in addition to field observations were used to assess whether an illicit discharge is suspected of each outfall. Details on field sampling and laboratory procedures for dry weather can be found in the Standard Operating Procedures in Appendix C.

Microbes from stormwater samples can be traced back to specific sources using microbial source tracking (MST) techniques to determine if the discharge originated from humans or a particular animal group. Samples were preserved for potential future processing for MST. Throughout the WQS efforts, CCE lab technicians preserved all DWF samples collected. An explanation of the MST analytical method and sampling procedures for Source Molecular can be found in Appendix D.

Following the above methodology will maximize the likelihood of finding illicit discharges, which once remediated, can improve water quality in the Town's surrounding waters. It should be noted however, that the stated methodology will not guarantee that an illicit discharge will be found. It is possible that an illicit discharge will not be detected with 3 DWF monitoring events. It is also possible that illicit discharges can be sufficiently diluted by intruding groundwater thus masking the illicit discharge. However, we feel that the above methodology provides the opportunity to find illicit discharges in a manageable and economical fashion.

Typically, during illicit discharge detection studies, each outfall which is found to have at least 1 instance of dry weather flow is included in WQS efforts. Since during this project there were no dry weather flows suspected to be illicit discharges, any outfall that had standing water in a connecting catch basin that also had additional indicators of potential illicit discharges was noted for sampling. Any outfall with high salinity which indicated tidal flow was not included in sampling.

Attempts to collect samples were made for 11 outfalls which were observed to have higher amounts and frequency of dry weather flow that also had additional indicators of a potential illicit discharge or salinity and temperature anomalies. A map of the selected outfalls can be found in Appendix E. Additionally, Outfall 273 within Zone 1, which was placed on a priority list for annual sampling during 2021, was included. Three (3) attempts were made to collect a sample for those locations selected for sampling. The samples were analyzed by CCE staff, and the results can be found in Appendix F. To assess if there is the potential for an illicit discharge, the flow chart developed by the Center of Watershed Protection was used to determine the likely source of each sample.

The following summarizes the results of WQS efforts for these 12 outfalls:

Outfall 78: Moderate dry weather flow was observed during all 3 sample events. Three (3) samples were obtained and analyzed (9/29/2022, 10/12/2022, 11/22/2022). In all cases the flow chart determined that the source is tap, irrigation and/or natural water. In addition, chlorine and fecal coliform concentrations were negligible. There is no reason to suspect an illicit discharge.

Outfall 79: Moderate dry weather flow was observed during all 3 sample events. Three (3) samples were obtained and analyzed (9/29/2022, 10/12/2022, 11/22/2022). In all cases the flow chart determined that the source is tap, irrigation and/or natural water. In addition, chlorine and fecal coliform concentrations were negligible. There is no reason to suspect an illicit discharge.

Outfall 80: Moderate dry weather flow was observed during all 3 sample events. Three (3) samples were obtained and analyzed (9/29/2022, 10/12/2022, 11/22/2022). In all cases the flow chart determined that the source is tap, irrigation and/or natural water. In addition, chlorine and fecal coliform concentrations were negligible. There is no reason to suspect an illicit discharge.

Outfall 143: Moderate dry weather flow with orange deposits was observed during all 3 sample events. Three (3) samples were obtained and analyzed (9/29/2022, 10/12/2022, 11/22/2022). In all cases the flow chart determined that the source is tap, irrigation and/or natural water. In addition, chlorine and fecal coliform concentrations were negligible. There is no reason to suspect an illicit discharge.

Outfall 144: Moderate dry weather flow was observed during all 3 sample events. Three (3) samples were obtained and analyzed (9/29/2022, 10/12/2022, 11/22/2022). In one event (9/29/2022), the flow chart determined that the source is a possible washwater contamination. However, for the subsequent visits, the flow chart determined that the source is tap, irrigation and/or natural water. In addition, chlorine and fecal coliform concentrations were negligible. There is no reason to suspect an illicit discharge.

Outfall 146: Trickling dry weather flow was observed during all 3 sample events. Three (3) samples were obtained and analyzed (9/29/2022, 10/12/2022, 11/22/2022). In all cases the flow chart determined that the source is tap, irrigation and/or natural water. In addition, chlorine and fecal coliform concentrations were negligible. There is no reason to suspect an illicit discharge.

Outfall 150: Trickling dry weather flow was observed during all 3 sample events. Three (3) samples were obtained and analyzed (9/29/2022, 10/12/2022, 11/22/2022). In two events (9/29/2022 & 10/12/2022), the flow chart determined that the source is a possible washwater contamination. However, for the final subsequent visit, the flow chart determined that the source is tap, irrigation and/or natural water. In addition, chlorine and fecal coliform concentrations were negligible. There is no reason to suspect an illicit discharge.

Outfall 151: Moderate dry weather flow was observed during all 3 sample events. Three (3) samples were obtained and analyzed (9/29/2022, 10/12/2022, 11/22/2022). In one event (10/12/2022), the flow chart determined that the source is a possible washwater contamination. However, for all other visits, the flow chart determined that the source is tap, irrigation and/or natural water. In addition, chlorine and fecal coliform concentrations were negligible. There is no reason to suspect an illicit discharge.

Outfall 152: Trickling dry weather flow was observed during all 3 sample events. Three (3) samples were obtained and analyzed (9/29/2022, 10/12/2022, 11/22/2022). In one event

(10/12/2022), the flow chart determined that the source is a possible washwater contamination. However, for all other visits, the flow chart determined that the source is tap, irrigation and/or natural water. In addition, chlorine and fecal coliform concentrations were negligible. There is no reason to suspect an illicit discharge.

Outfall 273: Moderate dry weather flow with orange deposits was observed during all 3 sample events. Three (3) samples were obtained and analyzed (9/29/2022, 10/12/2022, 11/22/2022). In all cases the flow chart determined that the source is tap, irrigation and/or natural water. In addition, chlorine and fecal coliform concentrations were negligible. There is no reason to suspect an illicit discharge.

Outfall 331: Moderate dry weather flow was observed during all 3 sample events. Three (3) samples were obtained and analyzed (9/29/2022, 10/12/2022, 11/22/2022). In all cases the flow chart determined that the source is tap, irrigation and/or natural water. In addition, chlorine and fecal coliform concentrations were negligible. There is no reason to suspect an illicit discharge.

Outfall 472: Trickling dry weather flow was observed during all 3 sample events. Three (3) samples were obtained and analyzed (9/29/2022, 10/12/2022, 11/22/2022). In all cases the flow chart determined that the source is tap, irrigation and/or natural water. In addition, chlorine and fecal coliform concentrations were negligible. There is no reason to suspect an illicit discharge.

Summary



Initial field investigations determined that 93 outfalls existed within the Town of Huntington's jurisdiction and should be included in the study for Zone 2. All outfalls were monitored for dry weather flow 3 times each. Outfalls found to have dry weather flow that also had additional indicators of potential illicit discharges were sampled. Outfall 273 from Zone 1 was also sampled due to previous sampling results. Samples of dry weather flow were analyzed for various water quality parameters. Results from this analysis indicated that there were not any direct illicit discharges into these systems.

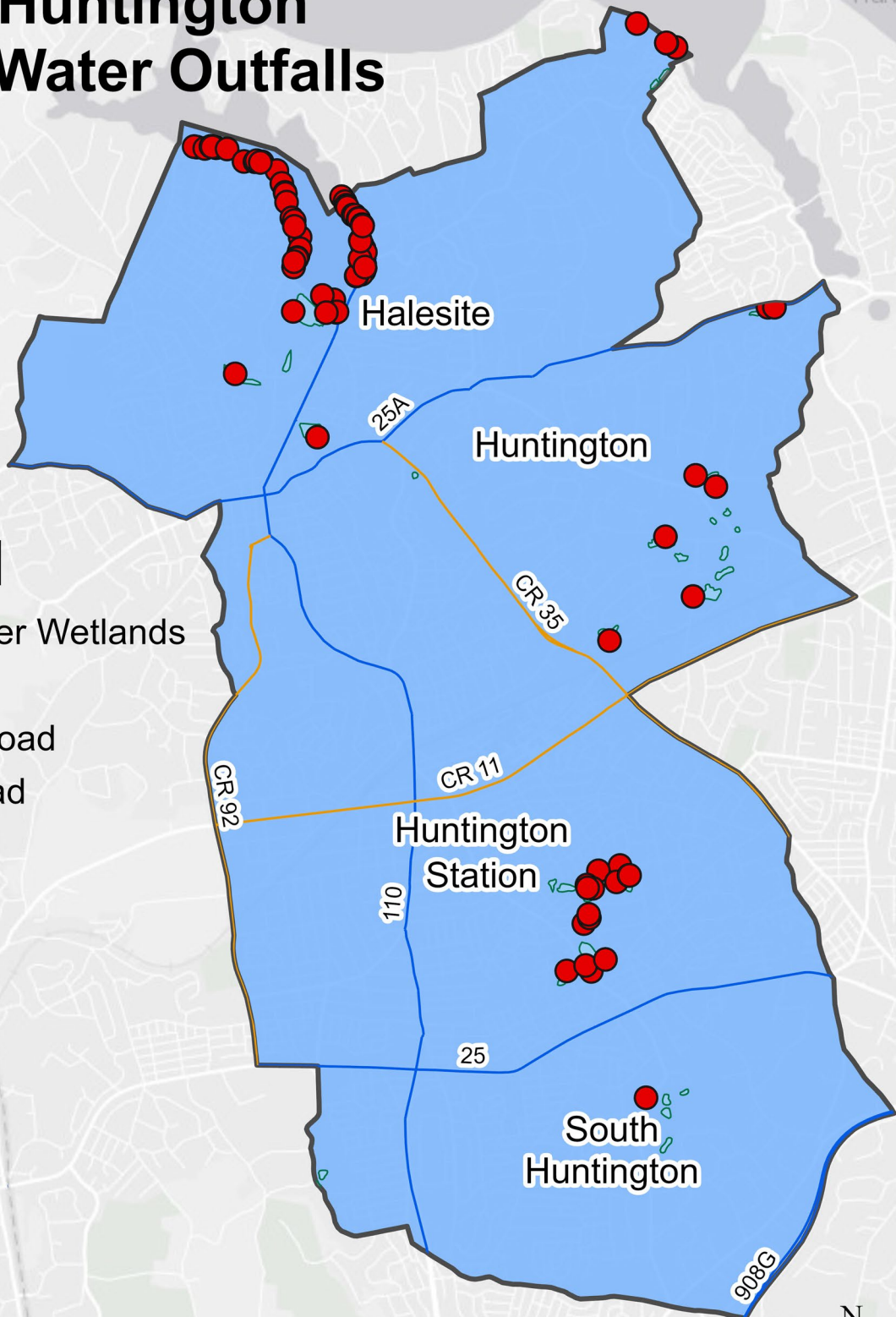
APPENDICES

APPENDIX A
Town of Huntington Surface Water Outfalls
Zone 2

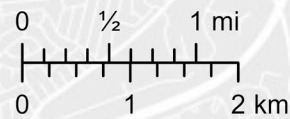
Town of Huntington Surface Water Outfalls Zone 2

Legend

-  Freshwater Wetlands
-  Outfalls
-  County Road
-  State Road



Cornell Cooperative Extension
Suffolk County



Scale: 1:70,000



Data Sources: Suffolk County, Esri, HERE, Garmin, GeoTechnologies, Inc., USGS, EPA

APPENDIX B
IDDE Dry Weather Monitoring Data

Date	Outfall_ID	Revisit	No rain in last (hrs)	Dry Weather Flow?	Flow Amount	Odor	Color	Turbidity	Floatables	Deposits	Vegetation	Pipe Benthic Growth	Temp (°C)	Salinity (PPT)
9/22/2022	1	1	72	standing water	N/A	none	clear	clear	none	none	none	none	22.6	0.2
11/15/2022	1	2	72	standing water	N/A	none	clear	clear	none	none	none	none	13.2	0.3
12/13/2022	1	3	48	standing water	N/A	none	clear	clear	none	none	none	none	11.7	0.2
9/22/2022	2	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/15/2022	2	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
12/13/2022	2	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/22/2022	3	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/15/2022	3	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
12/13/2022	3	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/22/2022	5	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/15/2022	5	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
12/13/2022	5	3	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
8/17/2022	78	1	72	yes	moderate	none	clear	clear	none	flow line	none	green	17.7	0
10/31/2022	78	2	72	yes	moderate	none	clear	clear	none	flow line	none	none	15.1	0.1
11/22/2022	78	3	48	yes	moderate	none	clear	clear	none	none	none	none	12.8	0.2
8/17/2022	79	1	72	yes	moderate	none	clear	clear	none	flow line	none	none		
10/31/2022	79	2	72	yes	moderate	none	clear	clear	none	other	none	none	16.5	0.2
11/22/2022	79	3	48	yes	moderate	none	clear	clear	none	flow line	none	none	14	0.2
8/17/2022	80	1	72	yes	moderate	none	clear	clear	none	flow line	none	green	18.2	0.2
10/31/2022	80	2	72	yes	moderate	none	clear	clear	none	flow line	none	none	16.2	0.2
11/22/2022	80	3	48	yes	moderate	none	clear	clear	none	flow line	none	none	14.2	0.1
8/17/2022	134	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/15/2022	134	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	134	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/9/2022	136	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/28/2022	136	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
12/13/2022	136	3	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/9/2022	138	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/28/2022	138	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		

Date	Outfall_ID	Revisit	No rain in last (hrs)	Dry Weather Flow?	Flow Amount	Odor	Color	Turbidity	Floatables	Deposits	Vegetation	Pipe Benthic Growth	Temp (°C)	Salinity (PPT)
12/13/2022	138	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/9/2022	139	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/15/2022	139	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	139	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/9/2022	140	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/28/2022	140	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
12/13/2022	140	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
8/10/2022	141	1	72	no	N/A	N/A	N/A	N/A	N/A	other	none	none		
11/15/2022	141	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	141	3	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
8/10/2022	143	1	72	yes	moderate	none	clear	clear	none	none	none	green	16	0.2
10/31/2022	143	2	72	yes	moderate	none	clear	clear	none	none	none	none	14.4	0
11/22/2022	143	3	72	yes	moderate	none	clear	clear	none	none	none	none	12.9	0.1
7/26/2022	144	1	72	yes	moderate	none	clear	clear	none	none	none	none	17.3	0.3
10/31/2022	144	2	72	yes	moderate	none	clear	clear	none	none	none	none	14.1	0.2
11/22/2022	144	3	72	yes	moderate	none	clear	clear	none	none	none	none	9.1	0.2
7/26/2022	145	1	72	standing water	N/A	none	clear	clear	none	none	none	none	24.5	21.4
11/15/2022	145	2	72	standing water	N/A	none	clear	clear	none	none	none	none	11.4	21.1
11/22/2022	145	3	72	standing water	N/A	none	clear	clear	none	none	none	none	7.7	14.8
7/26/2022	146	1	72	yes	trickle	none	clear	clear	none	none	none	none	20.4	0.1
10/31/2022	146	2	72	yes	trickle	none	clear	clear	none	none	none	none	11.6	0.1
11/22/2022	146	3	72	yes	trickle	none	clear	clear	none	none	none	none	4.5	0
7/26/2022	147	1	24	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/15/2022	147	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	147	3	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
7/26/2022	148	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/15/2022	148	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	148	3	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		

Date	Outfall_ID	Revisit	No rain in last (hrs)	Dry Weather Flow?	Flow Amount	Odor	Color	Turbidity	Floatables	Deposits	Vegetation	Pipe Benthic Growth	Temp (°C)	Salinity (PPT)
7/26/2022	149	1	72	yes	moderate	none	clear	clear	none	none	none	none	17.3	1.7
11/15/2022	149	2	72	yes	moderate	none	clear	clear	none	none	none	none	13.3	0.5
11/22/2022	149	3	72	yes	moderate	none	clear	clear	none	none	none	none	12.5	0.6
7/26/2022	150	1	72	yes	trickle	none	clear	clear	none	none	none	none	20	0
10/31/2022	150	2	72	yes	trickle	none	clear	clear	none	none	none	none	15	0.3
11/22/2022	150	3	72	yes	trickle	none	clear	clear	none	none	none	none	10.5	0
7/26/2022	151	1	72	yes	moderate	none	clear	clear	none	none	none	green	15.2	0.2
10/31/2022	151	2	72	yes	moderate	none	clear	clear	none	none	none	none	13.5	0.1
11/22/2022	151	3	72	yes	moderate	none	clear	clear	none	none	none	none	8.1	0
7/26/2022	152	1	72	yes	moderate	none	clear	clear	none	none	none	none	20.9	0.1
10/31/2022	152	2	72	yes	trickle	none	clear	clear	none	none	none	none	15.4	0.2
11/22/2022	152	3	72	no	trickle	none	clear	clear	none	none	none	none	10.8	0.2
7/26/2022	153	1	72	yes	moderate	none	clear	clear	none	none	none	none	15.8	0.6
11/15/2022	153	2	72	yes	moderate	none	clear	cloudy	none	none	none	none	13.6	0.2
11/22/2022	153	3	72	yes	moderate	none	clear	clear	none	none	none	none	13.3	0.7
7/26/2022	154	1	72	yes	trickle	none	clear	clear	none	none	none	none	24.2	0
11/15/2022	154	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	154	3	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/9/2022	155	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/15/2022	155	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
12/13/2022	155	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/9/2022	156	1	72	no	N/A	N/A	N/A	N/A	N/A	flow line,oily	none	none		
11/15/2022	156	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
12/13/2022	156	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/9/2022	157	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/15/2022	157	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
12/13/2022	157	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
10/31/2022	273	2	72	yes	moderate	none	clear	clear	none	other	none	none	15	0.4
8/10/2022	329	1	72	standing water	N/A	none	clear	clear	none	none	none	none	26.7	0

Date	Outfall_ID	Revisit	No rain in last (hrs)	Dry Weather Flow?	Flow Amount	Odor	Color	Turbidity	Floatables	Deposits	Vegetation	Pipe Benthic Growth	Temp (°C)	Salinity (PPT)
11/4/2022	329	2	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	329	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
8/10/2022	330	1	72	standing water	N/A	none	clear	clear	none	none	none	none	24.5	14.1
11/4/2022	330	2	48	standing water	N/A	none	clear	clear	none	none	none	none	15.9	17.9
11/22/2022	330	3	48	standing water	N/A	none	clear	clear	none	none	none	none	12.9	10.1
9/9/2022	331	1	72	yes	moderate	none	clear	clear	none	flow line	none	green	14.5	0.2
10/31/2022	331	2	72	yes	moderate	none	clear	clear	none	none	none	none	13.9	0.2
11/28/2022	331	3	72	yes	moderate	none	clear	clear	none	none	none	none	12.7	0.1
8/10/2022	332	1	72	yes	trickle	none	clear	clear	none	none	none	none	24.9	0.5
11/4/2022	332	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	332	3	48	yes	trickle	none	clear	clear	none	none	none	none	11.2	0.6
9/22/2022	335	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/4/2022	335	2	48	yes	trickle	none	clear	clear	none	none	none	none	15	0.2
11/22/2022	335	3	48	yes	trickle	none	clear	clear	none	flow line	none	none	9.1	0.1
8/17/2022	338	1	72	yes	trickle	none	clear	clear	none	none	none	none	14.4	0.2
11/4/2022	338	2	48	standing water	N/A	none	clear	clear	none	none	none	none	17.2	26.7
11/22/2022	338	3	48	yes	trickle	none	clear	clear	none	none	none	none	11.5	0.1
8/17/2022	339	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/4/2022	339	2	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	339	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
8/17/2022	340	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/4/2022	340	2	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	340	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/4/2022	341	2	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	341	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
1/10/2023	341	1	72	no	N/A	none	N/A	N/A	N/A	none	none	none		
8/17/2022	350	1	48	standing water	N/A	none	clear	cloudy	none	none	none	none	22.1	16.7

Date	Outfall_ID	Revisit	No rain in last (hrs)	Dry Weather Flow?	Flow Amount	Odor	Color	Turbidity	Floatables	Deposits	Vegetation	Pipe Benthic Growth	Temp (°C)	Salinity (PPT)
11/4/2022	350	2	48	yes	trickle	none	clear	clear	none	none	none	none	15.2	17
11/22/2022	350	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
8/17/2022	351	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/4/2022	351	2	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	351	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
8/17/2022	352	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/4/2022	352	2	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	352	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
8/17/2022	353	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/4/2022	353	2	48	yes	trickle	none	clear	clear	none	none	none	none	16.4	0.1
11/22/2022	353	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
8/17/2022	354	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/4/2022	354	2	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	354	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/9/2022	369	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/4/2022	369	2	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	369	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/9/2022	370	1	72	standing water	N/A	none	clear	clear	none	none	none	green	21.3	16.4
11/4/2022	370	2	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	370	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
8/10/2022	374	1	72	standing water	N/A	none	clear	clear	none	none	none	none	25.2	24.6
11/4/2022	374	2	48	standing water	N/A	none	clear	clear	none	none	none	none	15.4	26.8
11/22/2022	374	3	48	standing water	N/A	none	clear	clear	none	none	none	none	10.7	21.8
9/9/2022	376	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/4/2022	376	2	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	376	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/9/2022	381	1	72	no	N/A	N/A	N/A	N/A	N/A	flow line	none	none		
11/4/2022	381	2	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		

Date	Outfall_ID	Revisit	No rain in last (hrs)	Dry Weather Flow?	Flow Amount	Odor	Color	Turbidity	Floatables	Deposits	Vegetation	Pipe Benthic Growth	Temp (°C)	Salinity (PPT)
11/22/2022	381	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/9/2022	382	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/4/2022	382	2	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none,green		
11/22/2022	382	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/15/2022	452	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
12/13/2022	452	3	48	yes	trickle	none	clear	clear	none	none	none	none	12.8	1.2
1/10/2023	452	1	72	no	N/A	none	N/A	N/A	N/A	none	none	none		
9/9/2022	459	1	72	yes	trickle	none	clear	clear	none	flow line	none	none	25.3	20.3
11/28/2022	459	2	72	standing water	N/A	none	clear	clear	none	none	none	none	9	12.8
12/13/2022	459	3	48	standing water	N/A	none	clear	clear	none	none	none	none	9.3	0.7
9/9/2022	460	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/28/2022	460	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
12/13/2022	460	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/9/2022	461	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/2/2022	461	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
12/13/2022	461	3	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/9/2022	462	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/15/2022	462	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
12/13/2022	462	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/9/2022	464	1	72	no	N/A	N/A	N/A	N/A	N/A	flow line	none	none		
11/15/2022	464	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
12/13/2022	464	3	48	yes	moderate	none	clear	clear	none	none	none	none	13.4	0
8/10/2022	465	1	72	standing water	N/A	none	clear	clear	none	none	none	none	26.3	0.1
11/14/2022	465	2	72	standing water	N/A	none	clear	clear	none	none	none	none	16.9	1.7
11/15/2022	465	3	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/9/2022	467	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	green		
11/14/2022	467	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/15/2022	467	3	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		

Date	Outfall_ID	Revisit	No rain in last (hrs)	Dry Weather Flow?	Flow Amount	Odor	Color	Turbidity	Floatables	Deposits	Vegetation	Pipe Benthic Growth	Temp (°C)	Salinity (PPT)
8/10/2022	472	1	72	yes	trickle	none	clear	clear	none	none	none	none	23.1	0.1
10/31/2022	472	2	72	yes	trickle	none	clear	clear	none	none	none	none	15.1	0.2
11/15/2022	472	3	72	yes	trickle	none	clear	clear	none	none	none	none	12.5	0.1
8/17/2022	547	1	72	standing water	N/A	none	clear	clear	none	none	none	none	24.1	22
11/14/2022	547	2	72	standing water	N/A	none	clear	clear	none	none	none	none	16	21.3
11/22/2022	547	3	48	standing water	N/A	none	clear	clear	none	none	none	none	11.8	0.7
8/10/2022	1317	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/4/2022	1317	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	1317	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/22/2022	1360	1	72	standing water	N/A	none	clear	clear	none	none	none	none	22.1	6
11/4/2022	1360	2	72	standing water	N/A	none	clear	clear	none	none	none	none	12.4	2.5
11/15/2022	1360	3	72	standing water	N/A	none	clear	clear	none	none	none	none	9.8	2.6
9/22/2022	1362	1	48	standing water	N/A	none	clear	clear	none	none	none	none	21.7	0.3
10/31/2022	1362	2	48	yes	moderate	none	clear	clear	none	none	none	none	17	0
11/22/2022	1362	3	48	yes	trickle	none	clear	clear	none	none	none	none	8.9	0.1
9/22/2022	1363	1	72	no	N/A	N/A	N/A	N/A	N/A	flow line	none	none		
11/15/2022	1363	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	1363	3	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/22/2022	1364	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/4/2022	1364	2	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	1364	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/22/2022	1365	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/4/2022	1365	2	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	1365	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/22/2022	1366	1	72	yes	moderate	none	clear	clear	none	none	none	none		
11/4/2022	1366	2	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		

Date	Outfall_ID	Revisit	No rain in last (hrs)	Dry Weather Flow?	Flow Amount	Odor	Color	Turbidity	Floatables	Deposits	Vegetation	Pipe Benthic Growth	Temp (°C)	Salinity (PPT)
12/13/2022	1366	3	48	standing water	N/A	none	clear	clear	none	none	none	none		
9/22/2022	1367	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/4/2022	1367	2	48	standing water	N/A	none	clear	clear	none	none	none	none		
12/13/2022	1367	3	72	standing water	N/A	none	clear	clear	none	none	none	none		
9/22/2022	1368	1	48	no	N/A	N/A	N/A	N/A	N/A	other	none	none		
11/4/2022	1368	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	1368	3	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/22/2022	1369	1	48	standing water	N/A	none	clear	clear	none	none	none	none	21.5	0.1
11/4/2022	1369	2	72	standing water	N/A	none	clear	clear	none	none	none	none	14.2	0.1
11/22/2022	1369	3	72	standing water	N/A	none	clear	clear	none	none	none	none	8.4	0.1
9/22/2022	1370	1	48	standing water	N/A	none	clear	clear	none	none	none	none	19.9	0
11/2/2022	1370	2	72	standing water	N/A	none	clear	clear	none	none	none	none	15.4	0
11/22/2022	1370	3	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/22/2022	1371	1	48	standing water	N/A	none	clear	clear	none	none	none	none	20.6	0
11/2/2022	1371	2	72	standing water	N/A	none	clear	clear	none	none	none	none	13.5	0
11/22/2022	1371	3	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/22/2022	1372	1	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/2/2022	1372	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	1372	3	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/22/2022	1373	1	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/2/2022	1373	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	1373	3	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/22/2022	1374	1	48	standing water	N/A	none	clear	clear	none	none	none	none	22	0
11/2/2022	1374	2	72	standing water	N/A	none	clear	clear	none	none	none	none	14.9	0.4

Date	Outfall_ID	Revisit	No rain in last (hrs)	Dry Weather Flow?	Flow Amount	Odor	Color	Turbidity	Floatables	Deposits	Vegetation	Pipe Benthic Growth	Temp (°C)	Salinity (PPT)
11/22/2022	1374	3	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/22/2022	1375	1	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/2/2022	1375	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	1375	3	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/22/2022	1376	1	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/2/2022	1376	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	1376	3	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/22/2022	1377	1	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/2/2022	1377	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	1377	3	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/22/2022	1378	1	72	standing water	N/A	none	clear	clear	none	none	none	none	23	0.1
11/2/2022	1378	2	72	standing water	N/A	none	clear	clear	none	none	none	none	14.6	0.1
11/22/2022	1378	3	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/22/2022	1379	1	72	no	N/A	N/A	N/A	N/A	N/A	other	none	none		
11/2/2022	1379	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none	13.4	0.1
11/22/2022	1379	3	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/22/2022	1380	1	72	standing water	N/A	none	clear	clear	none	none	none	none	20	0.1
11/2/2022	1380	2	72	standing water	N/A	none	clear	clear	none	none	none	none	13.4	0.1
11/22/2022	1380	3	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/22/2022	1381	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/2/2022	1381	2	24	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	1381	3	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/22/2022	1382	1	24	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/2/2022	1382	2	72	standing water	N/A	none	clear	clear	none	none	none	none	14	0.1
11/22/2022	1382	3	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/22/2022	1383	1	48	yes	trickle	none	clear	clear	none	none	none	none	19.7	0.3
11/2/2022	1383	2	72	standing water	N/A	none	clear	clear	none	other	none	none	16.1	0.3

Date	Outfall_ID	Revisit	No rain in last (hrs)	Dry Weather Flow?	Flow Amount	Odor	Color	Turbidity	Floatables	Deposits	Vegetation	Pipe Benthic Growth	Temp (°C)	Salinity (PPT)
11/22/2022	1383	3	72	yes	trickle	none	clear	clear	none	none	none	none	14.2	0.3
9/22/2022	1384	1	48	standing water	N/A	none	clear	clear	none	none	none	none	20.9	0.2
11/2/2022	1384	2	72	standing water	N/A	none	clear	clear	none	none	none	none	17.1	0.1
11/22/2022	1384	3	72	standing water	N/A	none	clear	clear	none	none	none	none	15.1	0.2
9/22/2022	1385	1	48	yes	trickle	none	clear	clear	none	none	none	none	19.4	0.3
11/2/2022	1385	2	72	standing water	N/A	none	clear	clear	none	none	none	none	13.7	0.2
11/22/2022	1385	3	72	standing water	N/A	none	clear	clear	none	none	none	none	9.2	0.2
9/22/2022	1386	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/2/2022	1386	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	1386	3	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/4/2022	1387	2	48	standing water	N/A	none	clear	clear	none	none	none	none	17.5	16.4
11/22/2022	1387	3	48	standing water	N/A	none	clear	clear	none	none	none	none	12.9	11.2
1/10/2023	1387	1	72	standing water	N/A	none	clear	clear	none	none	none	none	24	14
9/22/2022	1388	1	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
10/31/2022	1388	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	1388	3	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/22/2022	1389	1	48	standing water	N/A	none	clear	clear	none	none	none	none	22.3	0.1
10/31/2022	1389	2	72	standing water	N/A	none	clear	clear	none	none	none	none	13.8	0.1
11/22/2022	1389	3	72	standing water	N/A	none	clear	clear	none	none	none	none	8.5	0.1
9/22/2022	1390	1	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
10/31/2022	1390	2	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	1390	3	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/22/2022	1413	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/4/2022	1413	2	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	1413	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		

Date	Outfall_ID	Revisit	No rain in last (hrs)	Dry Weather Flow?	Flow Amount	Odor	Color	Turbidity	Floatables	Deposits	Vegetation	Pipe Benthic Growth	Temp (°C)	Salinity (PPT)
9/22/2022	1414	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/4/2022	1414	2	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	1414	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
9/22/2022	1424	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
10/31/2022	1424	2	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/22/2022	1424	3	48	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
7/21/2022	1426	1	72	no	N/A	N/A	N/A	N/A	N/A	none	none	none		
11/15/2022	1426	2	72	standing water	N/A	none	clear	clear	none	none	none	none	13.1	0.1
11/22/2022	1426	3	72	standing water	N/A	none	clear	clear	none	none	none	none	10.3	0.3

APPENDIX C
Standard Operating Procedures

Dry Weather Field Sampling Procedures

I. Annual Sampling Protocol Overview

- a. Collect samples during at least 3 dry weather events for each selected outfall. Sampling events will ideally be spaced at least two weeks apart.

- b. Basic Protocol
 - i. 1 replicate sample per event (collect an additional sample at any sample location)
 - ii. 1 field blank per event for FC Lab (Fill a sterile sample bottle with sterile water prior to leaving for the field and take along with you in the cooler)
 - iii. 1 temp control per event for FC Lab (Fill a SECOND sample bottle with tap water prior to leaving for the field and take along with you in the cooler)

- c. Steps BEFORE Sampling Event
 - i. Field Coordinator will determine if there is upcoming qualifying dry weather. The National Oceanic and Atmospheric Administration (NOAA) website is used to review precipitation history (up to three days) and predicted weather. Republic Airport (KFRG) weather station was used for the Town of Huntington.
 - ii. A dry weather event is considered as representative if the event is preceded by at least 48 hours of dry weather (less than 0.1 inch accumulation).

 - iii. Equipment:
 1. 290 mL sterile polystyrene sample vessels (without sodium thiosulfate)
 2. Peristaltic Sample Pump (DGSI TR-200 or RVA Field-Flow Compact)
 3. Cooler with ice
 4. Tap water for rinsing equipment
 5. Labeling Tape and Pen
 6. Data sheets

 - iv. 1 field blank per event (Fill a sterile sample bottle with sterile water prior to leaving for the field and take along with you in the cooler)

- v. 1 temp control per event (Fill a SECOND sample bottle with tap water prior to leaving for the field and take along with you in the cooler)

d. Steps DURING Field Sampling

- i. For each sample location, collect 290 mL of sample; 1 sample bottle will be used for fecal coliform enumeration (FC)
- ii. For each sample collected, the Date/Time, Outfall_ID Number, Sample Bottle Number for FC Lab, Flow in System, Temperature, Salinity, and Sampler Initials are recorded on the “Town of Huntington Stormwater Management Program - Fecal Coliform and MST Sampling Datasheet”. Details about the observed dry weather flow at each outfall are recorded in the “Comments” section.
- iii. For each outfall, each sample is collected using sterile techniques.
- iv. Different sampling techniques are used depending on the accessibility of the outfall to be sampled. A peristaltic sample pump is used when sampling from an immediate catch basin if the outfall cannot be accessed directly. The telescoping sampling pole is used when outfalls are out of direct reach. If the outfall can be accessed directly, the sample bottle is used to collect flow using sterile technique.
- v. When using a peristaltic sample pump, at each sample location, prior to sample collection, the pump is rinsed through with tap water prior to and after sample collection. When collecting a dry weather flow sample, the peristaltic pump is first rinsed with sample water prior to collecting the actual sample in order to prevent dilution or contamination of the sample.
- vi. 1 replicate sample per event (collect an additional sample at any sample location) for FC Lab.
- vii. Fecal coliform enumeration is completed no later than 24 hours after collection of each sample. All samples and control bottles are kept on ice in sampling coolers until water quality analysis can be completed. Sample bottles should be placed in enough ice so that they are surrounded up to the shoulder, and ice should not exceed past the

shoulder. Sample temperature should be maintained at less than 10°C until ready for processing.

IDEXX Colilert*-18
Fecal Coliform Enumeration
Standard Operating Procedure

IDEXX Colilert*-18 Procedure with Quanti-Tray*/2000 – Day 1

- 1) Measure temperature of the ‘temp control’ bottle using a thermometer and record.
- 2) Remove samples from ice and let stand at room temperature for 20-30 minutes.
Samples should be at or near room temperature before processing.
- 3) Ensure IDEXX Quanti-Tray* Sealer PLUS is on and status light is green.
- 4) For each sample (including blank) run a 1:100 dilution
 - a. Shake sample bottle vigorously before processing. Bacteria can become clumped and stick to the sides of containers, so shaking the sample prior to processing is necessary.
 - b. Pipet 1mL of sample into the IDEXX sterile vessel.
 - c. Fill the rest of the vessel with 99ml of sterile water using a prefilled dilution vial.
 - d. Empty contents of 1 Colilert*-18 pack into vessel.
 - e. Swirl vessel until granules completely dissolve. Swirl, do not shake. Shaking will produce foam/bubbles in the processed sample and interfere with the QuantiTray*/2000 process.
 - f. Gently pour all 100ml of processed sample into Quanti-Tray*/2000.
 - g. Seal Quanta-Tray*/2000 using the IDEXX Quanti-Tray* Sealer PLUS.
- 5) Place all samples back into cooler with ice to preserve in case further dilution is necessary.
- 6) Check incubator temperature and record on incubator temperature log.
- 7) Place all sealed Quanti-Tray*/2000s into incubator at 44.5°C.
- 8) Incubate for 18-22hrs.

IDEXX Colilert*-18 Procedure with Quanti-Tray*/2000 – Day 2A

- 1) Record Incubator Temperature prior to removing trays.
- 2) Count number of large and small cells that have turned yellow (equal to or greater than the comparator). Remember that the largest cell at the top of the Quanti-Tray*/2000 should be included in the total count. There are a total of 49 large cells and a total of 48 small cells.
- 3) Refer to the Quanti-Tray*/2000 Most Probable Number Table for MPN/100mL.

PROCEED to ‘Day 2B’ to process at 1:1000 dilution ONLY if any samples are measured to be >241,960 MPN/100mL.

IDEXX Colilert*-18 Procedure with Quanti-Tray*/2000 – Day 2B:

- 1) Measure temperature of the ‘temp control’ bottle using a thermometer and record.
- 2) Remove samples from ice and let stand at room temperature for 20-30 minutes.
Samples should be at or near room temperature before processing.

- 3) Ensure IDEXX Quanti-Tray* Sealer PLUS is on and status light is green.
- 4) For each sample measuring >241,960 MPN/100mL AND Sample Blank:
 - a. Shake sample bottle vigorously before processing. Bacteria can become clumped and stick to the sides of containers, so shaking the sample prior to processing is necessary.
 - b. Pipet 1.0mL of sample into a 99mL prefilled dilution vial to make a 1:100 dilution.
 - c. Shake the 1:100 dilution vigorously.
 - d. Pipet 10mL of the 1:100 dilution into the IDEXX sterile vessel.
 - e. Fill the rest of the vessel with 90ml of sterile water using a prefilled dilution vial.
 - f. Empty contents of 1 Colilert*-18 pack into vessel.
 - g. Swirl vessel until granules completely dissolve. Swirl, do not shake. Shaking will produce foam/bubbles in the processed sample and interfere with the QuantiTray*/2000 process.
 - h. Gently pour all 100ml of processed sample into Quanti-Tray*/2000.
 - i. Seal Quanta-Tray*/2000 using the IDEXX Quanti-Tray* Sealer PLUS.
- 5) Place all samples back into cooler with ice to preserve in case further dilution is necessary.
- 6) Check incubator temperature and record on incubator temperature log.
- 7) Place all sealed Quanti-Tray*/2000s into incubator at 44.5°C.
- 8) Incubate for 18-22hrs.

IDEXX Colilert*-18 Procedure with Quanti-Tray*/2000 – Day 3 1)

- Record Incubator Temperature prior to removing trays.
- 2) Count number of large and small cells that have turned yellow (equal to or greater than the comparator). Remember that the largest cell at the top of the Quanti-Tray*/2000 should be included in the total count. There are a total of 49 large cells and a total of 48 small cells.
 - 3) Refer to the Quanti-Tray*/2000 Most Probable Number Table for MPN/100mL.

For IDEXX Colilert*-18 Manufacturer Procedure (Quanti-Tray*/2000): https://idexxcom-live-b02da1e51e754c9cb292133b-9c56c33.aldryn-media.com/filer_public/cb/bc/cbbc0c25-354a-4d45-84f2-15e125913ef7/colilert-18-procedureen.

APPENDIX D
Source Molecular Sample Processing and Preservation Procedures
For Microbial Source Tracking (MST)

Membrane Filtration (Concentration of bacteria)

Materials:

- -20°C freezer or dry ice to freeze filters
- Pre-sterilized filter funnels (Pall MicroFunnels cat# FMFNL3020, FMFNL1050, or equivalent)
- Sidearm flask or waste bottle
- Vacuum manifold that fits the Pall MicroFunnels or equivalent
- Vacuum source with tubing that fits vacuum manifold and flask or waste bottle
- Stainless steel forceps (Millipore cat# XX6200006P or equivalent)
- Flame source for sterilizing forceps
- Beaker to hold forceps
- Sterile bead tubes (contact Source Molecular to order: info@sourcemolecular.com)
- Fine point permanent marker
- Micro-tube rack (optional)
- Micro-tube box
- Disposable gloves
- 100%, 200 proof ethanol for sterilizing forceps
- 70% ethanol for cleaning counter tops
- 10% bleach solution in spray bottle

Instructions:

Fill out the table on last page and submit with your samples. Without the information requested on the last page, Source Molecular's lab will not be able to provide complete results.

Wear disposable gloves at all times. Gloves must be changed between samples to prevent cross-contamination. If gloves are soiled, doff the soiled gloves and don a fresh pair immediately. Ensure work surfaces are sterilized by wiping down with a 10% bleach solution followed by 70% ethanol.

1. Assemble the vacuum manifold system. Vacuum manifold should be connected to the waste sidearm flask/bottle which is connected to the vacuum source by a hose. Label the bead tubes with the Client's name, sample ID, and the date filtered.
2. Obtain a sterile Pall MicroFunnel filter funnel (300mL capacity) for each sample, remove from packaging and position on top of the vacuum manifold, press down firmly so the funnel is snug. The MicroFunnels already include the membrane filter and are ready for water to be poured in. Label the filter funnel cup and lid with the sample ID.

3. Shake water sample to obtain a homogenous mixture.
4. With the manifold stopcocks in the **closed** position, pour water 100 mL of sample into funnel and make note of the volume added.
5. Open the stopcocks and allow the entire sample to filter through.
6. **Before adding more water to the funnel, turn off the vacuum and close the stopcock in order to accurately measure the volume added.** If the water filtered through fairly quickly (in less than ~20 minutes), add more water. 200 mL of water should be filtered per sample.
 - o If the membrane becomes clogged before filtering 200mL and after about 20-30 minutes with stopcock open, continue filtering through a second membrane by doing the following
 - A. Record the volume of water that passed through the filter.
 - B. Pour water remaining in filter funnel back into sample container.
 - C. Transfer the filter membrane to a provided bead tube by following **steps 7-9.**
 - D. Label the bead tube (with Fine point permanent marker) as membrane "1 of 2" along with the unique sample ID and volume filtered
 - E. Obtain a new filter funnel and continue filtering that sample. Aim to filter a combined total volume of 200mL. Use a maximum of 2 membranes, even if a total volume of 200mL cannot be obtained.
 - F. Transfer the second filter membrane to a bead tube by following **steps 7-9.**
 - o As a last resort, waters too turbid to be filtered should be spun down with an ultracentrifuge at 2500-3000 rpm for a few minutes to pelletize the solid particles. Record the volume of sample centrifuged. Pour the supernatant into a filter funnel and freeze the pellet. Both the pellet and the filter should be sent to the lab for DNA extraction.
7. Turn off vacuum, turn the stopcock to closed position, remove the funnel cylinder from the base by gently squeezing the funnel cylinder and lifting up. The base and funnel should detach. Place the funnel along with lid upside down on the counter so to not contaminate the bottom that comes into contact with the base.
8. Double check to ensure the label on the tube corresponds to the sample to be stored. Open the pre-labelled bead tube and place the cap upside down on a clean area of the counter. Keep the open bead tube on the tube rack or in a microtube box while you perform the next step.

9. Flame-sterilize two forceps (see below instructions). While the membrane is on the filter funnel base, use the sterile forceps to fold it in half and then into a cylinder with the top side facing inward, being careful to handle the membrane only on the edges, where it has not been exposed to the sample. Insert the rolled membrane into the labeled bead tube, place the forceps back into the ethanol and close the tube.

As an alternative to using the flame-sterilization method, pre-sterile, individually packaged, disposable forceps may be used. Use one per sample and throw away.

Flame-sterilizing forceps

Keep the forceps upright in a beaker with roughly 2 inches of 100% ethanol so that the lower stainless steel portion is covered. Remove both forceps and swipe over a flame to burn the ethanol. The forceps are now sterile and ready for use.

Notes:

- * **DO NOT** place forceps down on any surfaces in order to keep them sterile.
- * **DO NOT** place forceps back into the ethanol beaker immediately after flaming since the hot forceps may ignite the ethanol. Wait at least 20 sec.
- * **Keep ethanol beaker an arms length away from the flame source at all times while working and other ethanol stock materials in a separate room if possible.**
- * **Execute caution when using fire around flammable materials like ethanol. A fire is always a possibility. The nearest fire-hydrant should be located before beginning**

10. Ensure all tubes are labeled with the Client's name, sample ID, the date and volume filtered. Document this in the table below.
11. Samples must be shipped to our laboratory in a frozen state. Place them in microtube box and pre-freeze them in the freezer or on dry ice in a Styrofoam cooler. If using dry ice, ensure dry ice is placed all around and on top of the microtube box. Ship on dry ice following the "Filter Packing Instructions" guidelines provided to you.

Clean Up:

- Left over samples and filtrate in the waste flask may be poured down the drain and bottles disposed of in the trash
- 100% ethanol may be poured down the drain with running water
- Squirt a little bit of 70% ethanol down the manifold cups
- Rinse the waste bottle well with water and 70% ethanol, store in a separate bag/box from other materials
- Wipe down counter with 10% bleach followed by 70% ethanol

APPENDIX E
Town of Huntington Outfalls
Selected for Dry Weather Sampling
Zone 1

APPENDIX F
IDDE Dry Weather Flow Water Quality Data

Date/Times Sampled	Outfall_ID	Temp (°C)	Salinity (ppt)	Free Chlorine (mg/L)	Total Chlorine (mg/L)	Surfactants (mg/L)	Ammonia (mg/L)	Potassium (mg/L)	Ammonia: Potassium Ratio	pH	Turbidity (FTU)	Fecal Coliform (MPN/100mL)
9/29/2022 8:02 AM	78	16.9	0.2	0.019*	0.019*	0.123	0.0149*	2.1	0.007095238	6.87	3	31
10/12/2022 8:10 AM	78	15.1	0.1	0.019*	0.019*	0.188	0.0149*	0.9	0.016555556	6.93	0	20
11/22/2022 14:43	78	12.8	0.1	0.019*	0.019*	0.099*	0.0149*	1.7	0.008764705	6.28	0	10
9/29/2022 7:57 AM	79	17.5	0.2	0.019*	0.019*	0.158	0.241	2.1	0.114761904	6.88	4	10
10/12/2022 8:05 AM	79	16.5	0.2	0.019*	0.019*	0.220	0.494	1.2	0.411666667	6.94	0	<10
11/22/2022 2:40 PM	79	12.2	0.1	0.019*	0.019*	0.153	0.642	1.8	0.356666667	6.6	0	<10
9/29/2022 7:59 AM	80	17.5	0.2	0.019*	0.019*	0.099*	0.0149*	2.5	0.005960000	7.96	0	<10
10/12/2022 8:06 AM	80	16.2	0.2	0.02	0.019*	0.233	0.0149*	1.5	0.009933333	6.92	0	<10
11/22/2022 14:38 AM	80	13.5	0.3	0.019*	0.019*	0.1	0.0149*	3.2	0.004656250	6.12	0	<10
9/29/2022 7:47 AM	143	15.0	0.2	0.019*	0.019*	0.148	0.0149*	3.2	0.004656250	6.68	2	<10
10/12/2022 7:54 AM	143	14.4	0	0.019*	0.019*	0.173	0.0149*	2.4	0.006208333	6.54	0	<10
11/22/2022 2:26 PM	143	12.3	0.2	0.019*	0.019*	0.099*	0.0149*	3.2	0.004656250	5.83	0	<10
9/29/2022 7:43 AM	144	14.6	0.1	0.019*	0.019*	0.309	0.0149*	7.9	0.001886075	7.33	0	84
10/12/2022 7:50 AM	144	14.1	0.2	0.019*	0.019*	0.205	0.05	5.1	0.009803921	7.39	0	<10
11/22/2022 14:22 AM	144	10.6	0.3	0.019*	0.019*	0.194	0.043	5.4	0.007962963	6.58	0	<10
9/29/2022 7:39 AM	146	15.1	0.1	0.019*	0.019*	0.115	0.0149*	2.6	0.005730769	7.12	1	327
10/12/2022 7:46 AM	146	11.6	0.1	0.03	0.019*	0.191	0.019	1.7	0.011176471	7.60	1	30
11/2/2022 2:17 PM	146	6.6	0.1	0.019*	0.019*	0.099*	0.0149*	2.3	0.006478261	6.64	2	135
9/29/2022 7:18 AM	150	17.1	0.2	0.019*	0.019*	0.409	0.0149*	57.8	0.000257785	6.86	1	480
10/12/2022 7:20 AM	150	15.0	0.3	0.019*	0.019*	0.448	0.018	22.8	0.000789473	7.15	1	<10
11/22/2022 1:51 PM	150	11.1	0.4	0.019*	0.019*	0.141	0.0149*	11.7	0.001273504	6.35	0	20
9/29/2022 7:21 AM	151	14.7	0.2	0.019*	0.019*	0.247	0.0149*	2.3	0.006478260	6.47	0	<10
10/12/2022 7:24 AM	151	13.5	0.1	0.019*	0.019*	0.386	0.017	21.8	0.000779817	7.22	1	20
11/22/2022 1:57 PM	151	13.1	0.1	0.019*	0.019*	0.099*	0.0149*	2.5	0.005960000	6.21	0	<10
9/29/2022 7:27 AM	152	16.2	0.1	0.019*	0.019*	0.26	0.0149*	7.0	0.002128571	6.45	4	1178
10/12/2022 7:30 AM	152	15.4	0.2	0.019*	0.019*	0.375	0.0149*	3.4	0.004382353	7.21	0	1850
11/22/2022 2:06 PM	152	13.4	0.5	0.019*	0.019*	0.132	0.026	6.5	0.004000000	6.17	0	<10
9/29/2022 8:18 AM	273	16.0	0.4	0.019*	0.019*	0.153	0.516	4.3	0.120000000	6.98	8	135
10/12/2022 8:26 AM	273	15.0	0.4	0.03	0.019*	0.172	0.831	4.5	0.185333333	7.25	3	63
11/22/2022 3:03 PM	273	12.0	0.1	0.019*	0.019*	0.103	1.207	3.5	0.344857143	6.45	1	52
9/29/2022 9:20 AM	331	14.2	0.2	0.019*	0.019*	0.137	0.0149*	2.3	0.006478261	6.80	0	<10
10/12/2022 9:14 AM	331	13.9	0.2	0.019*	0.019*	0.179	0.0149*	1.6	0.009312500	6.70	0	<10
11/22/2022 3:40 PM	331	12.1	0.1	0.019*	0.019*	0.099*	0.0149*	2.5	0.005960000	6.19	0	<10
9/29/2022 8:36 AM	472	17.2	0.1	0.019*	0.019*	0.138	0.0149*	1.1	0.013545455	7.29	2	10
10/12/2022 8:40 AM	472	15.1	0.2	0.06	0.019*	0.21	0.0149*	0.3	0.049666667	7.32	1	10
11/22/2022 1:35 PM	472	10.9	0.1	0.019*	0.019*	0.099*	0.0149*	1.3	0.011461538	6.02	0	<10

*Sample measurement was below the minimum detection level. Since the actual measurement is not known, a value of one significant digit less than the minimum detection value was selected. For example, for free chlorine, the minimum detection level is 0.02, so a value of 0.019 was selected to represent the sample.


Town of Huntington

MS4

Standard Operating Procedures



Engineering Services

Department Name:	Engineering Services		
Number:	FINAL	Effective Date:	2/23/2023
Authorization Signature:			
Title:	Town Supervisor		
BACKGROUND AND PURPOSE			
<p>The Town of Huntington is categorized as a Traditional Municipal Separate Storm Sewer System (MS4) under the New York State Department of Environmental Conservation (NYSDEC) State Pollution Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from MS4s, the most current iteration of which is GP-0-15-003 (MS4 General Permit). The MS4 General Permit can be accessed at the following link: https://www.dec.ny.gov/docs/water_pdf/ms4permit.pdf</p> <p>Under the permit, the Town of Huntington must submit an Annual Report summarizing compliance activities performed throughout the reporting period (March 10 – March 9 of each year).</p> <p>This procedure outlines the reporting requirements of Town of Huntington Engineering Services Department for the MS4 Annual Report.</p>			
INTRODUCTION			
<p>This Standard Operating Procedure (SOP) is specific to the Engineering Services Department's reporting responsibilities towards the Town's SWMP and MS4 Annual Report.</p>			
SECTION			
<p>A. Responsibility <i>(This section identifies the personnel titles responsible for program implementation if applicable).</i></p>	<ol style="list-style-type: none"> 1. Department Staff Members <ul style="list-style-type: none"> • Stephen Thomas, Building Plans Examiner 2. Managers/ Supervisors <ul style="list-style-type: none"> • James Ahrens, Interim Director of Engineering Services 3. Contractors/ Third Parties <ul style="list-style-type: none"> • H2M 		

<p>B. Scope of Department Responsibilities <i>(This section provides an overview of activities that are covered under the MS4 Program for the Department as applicable).</i></p>	<p>An overview of the scope of reporting needs and activities for each MCM as they relate to this Department are explained below. Attachment E, MS4 Report Data Sheet, includes the detailed listing of metrics associated with each responsibility under the corresponding MCM heading.</p> <ol style="list-style-type: none"> 1. MCM 1 – Public Education and Outreach <ul style="list-style-type: none"> • Training materials to contractors: Make available “NYS Construction Runoff Guide” brochure at the front desk of the Engineering Services Department’s office 2. MCM 2 – Public Involvement and Participation <ul style="list-style-type: none"> • N/A. No activities or reporting needs are required for this MCM 3. MCM 3 – Illicit Discharge Detection and Elimination (IDDE) <ul style="list-style-type: none"> • Participate in IDDE during routine operations • If observed, report potential illicit discharges to: <ul style="list-style-type: none"> ○ Public Safety, when the potential illicit discharge is confined to a property ○ Maritime Services, when the potential illicit discharge has made its way into the stormwater sewer system or a waterbody 4. MCM 4/5 – Construction Site and Post-Construction Control <ul style="list-style-type: none"> • Report on the department’s SWPPP procedures including inspections and enforcement • Training materials to contractors: Make available “NYS Construction Runoff Guide” brochure at the front desk of the Engineering Services Department’s office 5. MCM 4– Construction Site Stormwater Runoff Control <ul style="list-style-type: none"> • Manage SWPPP process for municipal and private construction projects with SWPPPs connected to MS4 6. MCM 5– Post Construction Stormwater Management <ul style="list-style-type: none"> • Report the types and amount of post-construction stormwater management practices connected to the MS4 that have been inventoried, inspected, maintained and implemented • Incorporate the above metrics into the GIS 7. MCM 6– Pollution Prevention/Good Housekeeping <ul style="list-style-type: none"> • N/A. No activities or reporting needs are required for this MCM
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<p>C. Record Reporting Procedure: <i>(This section includes MS4 reporting procedures including process steps for record keeping and due dates).</i></p>	<p>Due dates associated with MS4 Report Requirements are listed below.</p> <ul style="list-style-type: none"> • <u>March 10th – March 9th</u>: Reporting period: Required records should be kept and monitored during reporting period. • <u>April 15th</u>: MS4 Report Data Sheets (Attachment E) should be filled out by designated Department Staff Members and submitted to the Department Supervisor. • <u>May 1st</u>: The Department Supervisor should review and submit the final MS4 Report Data Sheets to the report preparer/Town Stormwater Management Officer <p>Additional record keeping and back up information necessary for demonstrating MS4 General Permit compliance will be identified in the MS4 Report Data Sheets if applicable.</p>
<p>D. Training: <i>(This section identifies procedures for training documentation and recommended training needed to facilitate program understanding by responsible implementation staff).</i></p>	<ol style="list-style-type: none"> 1. Inventory and Documentation of Training <ul style="list-style-type: none"> • MCM 3: <ul style="list-style-type: none"> ○ Inventory of relevant staff for MS4 Trainings (to be provided in Attachment E) ○ Number of staff participating (to be provided in Attachment E) • MCM 5: <ul style="list-style-type: none"> ○ Inventory of relevant staff for MS4 Trainings (to be provided in Attachment E) ○ Number of staff participating (to be provided in Attachment E) <p>Training information should be maintained in readily accessible files.</p> 2. Recommended Training <ul style="list-style-type: none"> • The following training may be applicable to Department Staff/Supervisors with responsibilities for operations discussed in this SOP: <ul style="list-style-type: none"> ○ Training on this SOP ○ IDDE Training ○ Low Impact Development / Better Site Design / Green Infrastructure Training

<p>E. MS4 Report Data Sheets: <i>(This section includes the updated MS4 Report Data Sheets (Attachment E), formerly known as Questionnaires, as well as information the Department is responsible for contributing towards the MS4 Annual Report that was not originally requested in the former Questionnaire).</i></p>	<p>1. MS4 Report Data Sheets (Attachment E) provide required report metrics and definitions/notes.</p> <p>(MS4 REPORT DATA SHEETS ARE ATTACHED)</p>
<p>F. References: <i>(This section includes references to related procedures or documentation that should be consulted or utilized when performing the procedures in the SOP.)</i></p>	<ul style="list-style-type: none">• Town of Huntington Stormwater Management Program Plan https://www.huntingtonny.gov/filestorage/13749/16439/16577/99651/26387/SWMP_Final_1019.pdf• MS4 Annual Report Website https://www.huntingtonny.gov/MS4AnnualReports• Town of Huntington Subdivision and Site Plan Regulations https://www.huntingtonny.gov/filestorage/13749/13847/16804/99886/249480/Subdivision_and_Site_Plan_Regulations_-_FINAL_(Updated_08_18_2021).pdf

ATTACHMENT E: Engineering Services - FINAL DRAFT FOR INTERNAL REVIEW

		Response	Definitions/Notes
MCM 1	3. What strategies did your MS4/Coalition use to achieve education and outreach goals during this reporting period?		
	Printed Materials Distributed	#	Enter the number of "NYS Construction Runoff Guide" brochures distributed
MCM 3	3.b. What types of illicit discharges have been found during this reporting period?		Choose from the following options: Broken Lines From Sanitary Sewer, Cross Connections, Failing Septic Systems, Floor Drains Connected To Storm Sewers, Illegal Dumping, Industrial Connections, Inflow/Infiltration, Pump Station Failure, Sanitary Sewer Overflows, Straight Pipe Sewer Discharges, Other, None (If other include what the source is e.g. Residential Pool Draining)
	4. How many illicit discharges/potential illegal connections have been detected during this reporting period?	#	
	5. How many illicit discharges have been confirmed during this reporting period?	#	
	6. How many illicit discharges/illegal connections have been eliminated during this reporting period?	#	
	11. What percent of staff in relevant positions and departments has received IDDE* training?	%	For this section, relevant staff that has received IDDE training at ANY time may be counted.
	What is the total number of staff in relevant positions?	#	Staff in relevant positions include any staff members in your Department with responsibilities which may involve observing a potential illicit discharge.
	What is the total number of staff in relevant positions that has received IDDE training?	#	
			*IDDE: Illicit Discharge Detection and Elimination. An Illicit discharge means any discharge to the MS4 that is not composed entirely of stormwater and not specifically exempted under Part I.A.2. of the MS4 General Permit.
	MCM 4/5	1a. Has each MS4 contributing to this report adopted a law, ordinance or other regulatory mechanism that provides equivalent protection to the NYS SPDES General Permit for Stormwater Discharges from Construction Activities?	Yes or No
1b. Has each Town, City and/or Village contributing to this report documented that the law is equivalent to a NYSDEC Sample Local Law for Stormwater Management and Erosion and Sediment Control through either an attorney certification or using the NYSDEC Gap Analysis Workbook?		Yes or No	
If Yes, Towns, Cities and Villages provide date of equivalent NYS Sample Local Law.		09/2004 or 03/2006	Enter which of the two dates is relevant.
2. Does your MS4/Coalition have a SWPPP review procedure in place?		Yes or No	
3. How many Construction Stormwater Pollution Prevention Plans (SWPPPs) have been reviewed in this reporting period?		#	
4. Does your MS4/Coalition have a mechanism for receipt and consideration of public comments related to construction SWPPPs?		Yes or No	
If Yes, how many public comments were received during this reporting period?		#	
5. Does your MS4/Coalition provide education and training for contractors about the local SWPPP process?	Yes or No	Have the "NYS Construction Runoff Guide" brochures been distributed this year?	
6. Identify which of the following types of enforcement actions you used during the reporting period for construction activities, indicate the number of actions, or note those for which you do not have authority:		Enter amount of each enforcement action used during the reporting period or NO AUTHORITY if not relevant to your department.	
Notices of Violation	#/NO AUTHORITY		

	Stop Work Orders	#/NO AUTHORITY	
	Criminal Actions	#/NO AUTHORITY	
	Termination of Contracts	#/NO AUTHORITY	
	Administrative Fines	#/NO AUTHORITY	
	Civil Penalties	#/NO AUTHORITY	
	Administrative Orders	#/NO AUTHORITY	
	Enforcement Actions or Sanctions	#/NO AUTHORITY	
	Other	#/NO AUTHORITY	
MCM 4	1. How many construction projects have been authorized for disturbances of one acre or more during this reporting period?	#	
	2. How many construction projects disturbing at least one acre were active in your jurisdiction during this reporting period?	#	
	3. What percent of active construction sites were inspected during this reporting period?	%	
	4. What percent of active construction sites were inspected more than once?	%	
	5. Do all inspectors working on behalf of the MS4s contributing to this report use the NYS Construction Stormwater Inspection Manual?	Yes or No	
	6. Does your MS4/Coalition provide public access to Stormwater Pollution Prevention Plans (SWPPPs) of construction projects that are subject to MS4 review and approval? If Yes, identify location(s) where SWPPPs can be accessed. (MS4/Coalition Office, Library, Web Page URL(s), Other)	Yes or No	Include location or web page where SWPPPs can be accessed
MCM 5	1. How many and what type of post-construction stormwater management practices has your MS4/Coalition inventoried, inspected and maintained in this reporting period?		
	Alternative Practices	#	
	Filter Systems	#	
	Infiltration Basins	#	
	Open Channels	#	
	Ponds	#	
	Wetlands	#	
	Other:	#	
	2. Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track post-construction BMPs, inspections and maintenance?	Yes or No	
	4d. How many stormwater management practices have been implemented as part of this system in this reporting period?	#	
5. What percent of municipal officials/MS4 staff responsible for program implementation* attended training on Low Impact Development (LID)*, Better Site Design (BSD)* and other Green Infrastructure (GI)* principles in this reporting period?	%	*Staff responsible for program implementation: Staff members involved in plan review, SWPPP review including construction and post-construction erosion and sedimentation controls, LID practice application, drainage, and/ or similar activities. For this section, tally staff that have had training within the reporting period only.	
What is the total number of staff responsible for program implementation?	#		
What is the total number of staff responsible for program implementation that received training within the reporting period?	#		

		*LID: site design strategy with a goal of maintaining or replicating the predevelopment hydrologic regime (e.g. green roofs, permeable pavement).
		*BSD: Incorporates non-structural and natural approaches to new and redevelopment projects to reduce effects on watersheds by conserving natural areas, reducing impervious cover and better integrating stormwater treatment. BSD is a form of GI and is similar to LID.
		*GI: Approaches essentially infiltrate, evapotranspire or reuse stormwater, with significant utilization of soils and vegetation rather than traditional hardscape collection, conveyance and storage structures. (eg. trees and tree boxes, rain gardens, vegetated swales, pocket wetlands, infiltration planters, vegetated median strips, reforestation, and protection and enhancement of riparian buffers and flood plains.)
		Definition Sources: MS4 General Permit


Town of Huntington

MS4

Standard Operating Procedures



General Services

Department Name:	General Services		
Number:	FINAL	Effective Date:	2/23/2023
Authorization Signature:			
Title:	Town Supervisor		
BACKGROUND AND PURPOSE			
<p>The Town of Huntington is categorized as a Traditional Municipal Separate Storm Sewer System (MS4) under the New York State Department of Environmental Conservation (NYSDEC) State Pollution Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from MS4s, the most current iteration of which is GP-0-15-003 (MS4 General Permit). The MS4 General Permit can be accessed at the following link: https://www.dec.ny.gov/docs/water_pdf/ms4permit.pdf</p> <p>Under the permit, the Town of Huntington must submit an Annual Report summarizing compliance activities performed throughout the reporting period (March 10 – March 9 of each year).</p> <p>This procedure outlines the reporting requirements of Town of Huntington’s General Services Department for the MS4 Annual Report.</p>			
INTRODUCTION			
<p>This Standard Operating Procedure (SOP) is specific to the General Services Department’s reporting responsibilities towards the Town’s SWMP and MS4 Annual Report.</p>			
SECTION			
<p>A. Responsibility <i>(This section identifies the personnel titles responsible for program implementation if applicable).</i></p>	<ol style="list-style-type: none"> 1. Department Staff Members <ul style="list-style-type: none"> • Anthony Annunziata, Executive Assistant 2. Managers/ Supervisors <ul style="list-style-type: none"> • William Musto, Director of General Services • Joseph Rech, Deputy Director of General Services 		

<p>B. Scope of Department Responsibilities <i>(This section provides an overview of activities that are covered under the MS4 Program for the Department as applicable).</i></p>	<p>An overview of the scope of reporting needs and activities for each MCM as they relate to this department are explained below. Attachment E, MS4 Report Data Sheet, includes the detailed listing of metrics associated with each responsibility under the corresponding MCM heading.</p> <ol style="list-style-type: none"> 1. MCM 1 – Public Education and Outreach <ul style="list-style-type: none"> • N/A. No activities or reporting needs are required for this MCM. 2. MCM 2 – Public Involvement and Participation <ul style="list-style-type: none"> • N/A. No activities or reporting needs are required for this MCM. 3. MCM 3 – Illicit Discharge Detection and Elimination (IDDE) <ul style="list-style-type: none"> • Participate in IDDE during routine operations • If observed, report potential illicit discharges to: <ul style="list-style-type: none"> ○ Public Safety, when the potential illicit discharge is confined to a property ○ Maritime Services, when the potential illicit discharge has made its way into the stormwater sewer system or a waterbody 4. MCM 4– Construction Site Stormwater Runoff Control <ul style="list-style-type: none"> • N/A. No activities or reporting needs are required for this MCM 5. MCM 5– Post Construction Stormwater Management <ul style="list-style-type: none"> • N/A. No activities or reporting needs are required for this MCM 6. MCM 6– Pollution Prevention/Good Housekeeping <ul style="list-style-type: none"> • Conduct self-assessments for department operations/facilities at least once every three years for each operation conducted; report self-assessment metrics • Report metrics on Department’s maintenance, operations and good housekeeping programs 7. Additional Watershed Improvement Strategies <ul style="list-style-type: none"> • Address topics for pathogen impairment including turf management, goose feeding and pet waste bags
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<p>C. Record Reporting Procedure: <i>(This section includes MS4 reporting procedures including process steps for record keeping and due dates).</i></p>	<p>Due dates associated with MS4 Report Requirements are listed below.</p> <ul style="list-style-type: none"> • <u>March 10th – March 9th</u>: Reporting period Required records should be kept and monitored during reporting period. • <u>April 15th</u>: MS4 Report Data Sheets (Attachment E) should be filled out by designated Department Staff Members and submitted to the Department Supervisor. • <u>May 1st</u>: The Department Supervisor should review and submit the final MS4 Report Data Sheets to the report preparer/Town Stormwater Management Officer <p>Additional record keeping and back up information necessary for demonstrating MS4 General Permit compliance will be identified in the MS4 Report Data Sheets if applicable.</p>
<p>D. Training: <i>(This section identifies procedures for training documentation and recommended training needed to facilitate program understanding by responsible implementation staff).</i></p>	<ol style="list-style-type: none"> 1. Maintain an inventory of relevant staff for MS4 operations and Documentation of Training <ul style="list-style-type: none"> • MCM 3: <ul style="list-style-type: none"> ○ Inventory of relevant staff for MS4 Trainings (to be provided in Attachment E) ○ Number of staff participating (to be provided in Attachment E) • MCM 6: <ul style="list-style-type: none"> ○ Number of trainings provided/date of trainings (to be provided in Attachment E) ○ Inventory of relevant staff for MS4 Trainings (to be provided in Attachment E) ○ Number of staff participating (to be provided in Attachment E) <p>Training information should be maintained in readily accessible files.</p> 2. Recommended Training <ul style="list-style-type: none"> • The following training may be applicable to Department Staff/Supervisors with responsibilities for operations discussed in this SOP: <ul style="list-style-type: none"> ○ Training on this SOP ○ IDDE Training ○ Pollution Prevention / Good Housekeeping Training

<p>E. MS4 Report Data Sheets: <i>(This section includes the updated MS4 Report Data Sheets (Attachment E), formerly known as Questionnaires, as well as information the Department is responsible for contributing towards the MS4 Annual Report that was not originally requested in the former Questionnaire).</i></p>	<p>1. MS4 Report Data Sheets (Attachment E) provide required report metrics and definitions/notes.</p> <p>(MS4 REPORT DATA SHEETS ARE ATTACHED)</p>
<p>F. References (Optional Section): <i>(This section includes references to related procedures or documentation that should be consulted or utilized when performing the procedures in the SOP.)</i></p>	<ul style="list-style-type: none">• Town of Huntington Stormwater Management Program Plan: https://www.huntingtonny.gov/filestorage/13749/16439/16577/99651/26387/SWMP_Final_1019.pdf• MS4 Annual Report Website: https://www.huntingtonny.gov/MS4AnnualReports

ATTACHMENT E: General Services - FINAL DRAFT FOR INTERNAL REVIEW

	Response	Definitions/Notes
MCM 3		
11. What percent of staff in relevant positions and departments has received IDDE* training?	%	For this section, relevant staff that has received IDDE training at ANY time may be counted.
What is the total number of staff in relevant positions?	#	Staff in relevant positions include any staff members in your Department with responsibilities which may involve observing a potential illicit discharge.
What is the total number of staff in relevant positions that has received IDDE training?	#	
		*IDDE: Illicit Discharge Detection and Elimination. An Illicit discharge means any discharge to the MS4 that is not composed entirely of stormwater and not specifically exempted under Part I.A.2. of the MS4 General Permit.
		Definition Sources: MS4 General Permit
MCM 6		
1. Choose/list each municipal operation/facility that contributes or may potentially contribute Pollutants of Concern to the MS4 system. For each operation/facility indicate whether a self-assessment has been performed during the reporting period.		A self-assessment is performed to: 1) determine the sources of pollutants potentially generated by the permittee's operations and facilities; 2) evaluate the effectiveness of existing programs and 3) identify the municipal operations and facilities that will be addressed by the pollution prevention and good housekeeping program, if it's not done already.
Was a Self-Assessment of the Operation/Activity/Facility performed within the past 3 years?		Answer Yes or No or NA if not relevant to your Department
Street Maintenance	Yes/No/NA	
Bridge Maintenance	Yes/No/NA	
Winter Road Maintenance	Yes/No/NA	
Salt Storage	Yes/No/NA	
Solid Waste Management	Yes/No/NA	
New Municipal Construction and Land Disturbance	Yes/No/NA	
Right of Way Maintenance	Yes/No/NA	
Marine Operations	Yes/No/NA	
Hydrologic Habitat Modification	Yes/No/NA	
Parks and Open Space	Yes/No/NA	
Municipal Building	Yes/No/NA	
Stormwater System Maintenance	Yes/No/NA	
Vehicle and Fleet Maintenance	Yes/No/NA	
Other	Yes/No/NA	
2. Provide the following information about municipal operations good housekeeping programs:		Enter quantity or NA if not applicable to your Department
Parking Lots Swept	#/NA	Answer in acres of parking lots swept X number of times swept
Streets Swept	#/NA	Answer in miles of streets swept X number of times swept
Catch Basins Inspected and Cleaned Where Necessary	#/NA	
Post Construction Control Stormwater Management Practices Inspected and Cleaned Where Necessary	#/NA	
Phosphorous Applied in Chemical Fertilizer	#/NA	Answer in pounds applied
Nitrogen Applied in Chemical Fertilizer	#/NA	Answer in pounds applied

Pesticide/Herbicide Applied	#/NA	Number of acres to which pesticide/herbicide was applied X the number of times applied to the nearest tenth
3. How many stormwater management trainings have been provided to municipal employees during this reporting period?	#	Provide the number of stormwater management trainings that occurred in your Department during the reporting period. Back up files to support training dates are advisable.
4. What was the date of the last training?	MM/DD/YYYY	Enter the date of the last stormwater training whether it was in the current reporting period or prior reporting period.
5. How many municipal employees have been trained in this reporting period?	#	Provide the total number of employees in the Department that were trained during the reporting period only.
6. What percent of municipal employees in relevant positions and departments receive stormwater management training?	%	Enter the percentage of relevant employees in your department that received stormwater management training. Relevant employees are staff members involved in maintenance and operation activities who have a role in the recognition of preventing or reducing stormwater pollution. This could include personnel directly involved in park and open space operations and maintenance, fleet and building operations and maintenance, stormwater conveyance system operation and maintenance, and municipal facility operations.
	#	Total number of relevant employees
	#	Number of relevant employees trained during this reporting period.
Additional Watershed Improvement Strategy Best Management Practices		
8a. Has your MS4/Coalition developed and implemented a turf management practices and procedures policy that addresses proper fertilizer application on municipally owned lands?	Yes/No	
8b. Has your MS4/Coalition developed and implemented a turf management practices and procedures policy that addresses proper disposal of grass clippings and leaves from municipally owned lands?	Yes/No	
10. Has your MS4/Coalition enacted a local law prohibiting pet waste on municipal properties and prohibiting goose feeding?	Yes/No	
11. Does your MS4/Coalition have a pet waste bag program?	Yes/No	
If Yes, how many pet waste bag stations are maintained on Town property?	#	


Town of Huntington

MS4

Standard Operating Procedures



Maritime Services

Department Name:	Maritime Services		
Number:	FINAL	Effective Date:	2/23/2023
Authorization Signature:			
Title:	Town Supervisor		
BACKGROUND AND PURPOSE			
<p>The Town of Huntington is categorized as a Traditional Municipal Separate Storm Sewer System (MS4) under the New York State Department of Environmental Conservation (NYSDEC) State Pollution Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from MS4s, the most current iteration of which is GP-0-15-003 (MS4 General Permit). The MS4 General Permit can be accessed at the following link: https://www.dec.ny.gov/docs/water_pdf/ms4permit.pdf</p> <p>Under the permit, the Town of Huntington must submit an Annual Report summarizing compliance activities performed throughout the reporting period (March 10 – March 9 of each year).</p> <p>This procedure outlines the reporting requirements of Town of Huntington Maritime Services Department for the MS4 Annual Report.</p>			
INTRODUCTION			
<p>This Standard Operating Procedure (SOP) is specific to the Maritime Services Department’s reporting responsibilities towards the Town’s SWMP and MS4 Annual Report.</p>			
SECTION			
<p>A. Responsibility <i>(This section identifies the personnel titles responsible for program implementation if applicable).</i></p>	<ol style="list-style-type: none"> 1. Managers/ Supervisors <ul style="list-style-type: none"> • Fred Uvena, Interim Director, Senior Harbormaster • Garrett Chelius, Deputy Director 2. Contractors/ Third Parties <ul style="list-style-type: none"> • H2M • Cornell Cooperative Extension 		

<p>B. Scope of Department Responsibilities <i>(This section provides an overview of activities that are covered under the MS4 Program for the Department as applicable).</i></p>	<p>An overview of the scope of reporting needs and activities for each MCM as they relate to this department are explained below. Attachment E, MS4 Report Data Sheet, includes the detailed listing of metrics associated with each responsibility under the corresponding MCM heading.</p> <ol style="list-style-type: none"> 1. Water Quality Trends <ul style="list-style-type: none"> • Provide Town water quality trend documents/studies if applicable 2. MCM 1 – Public Education and Outreach <ul style="list-style-type: none"> • Distribute educational materials • Report on other methods the department has provided for education/outreach 3. MCM 2 – Public Involvement and Participation <ul style="list-style-type: none"> • N/A. No activities or reporting needs are required for this MCM 4. MCM 3 – Illicit Discharge Detection and Elimination (IDDE) <ul style="list-style-type: none"> • Participate in IDDE during routine operations • Document identification of illicit discharges and report to the appropriate authority 5. MCM 4– Construction Site Stormwater Runoff Control <ul style="list-style-type: none"> • N/A. No activities or reporting needs are required for this MCM 6. MCM 5– Post Construction Stormwater Management <ul style="list-style-type: none"> • N/A. No activities or reporting needs are required for this MCM 7. MCM 6– Pollution Prevention/Good Housekeeping <ul style="list-style-type: none"> • Conduct self-assessments for department operations/facilities at least once every three years for each operation conducted; report self-assessment metrics 8. Additional Watershed Improvement Strategies <ul style="list-style-type: none"> • Maintain an education program that addresses Pollutants of Concern (POCs)
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<p>C. Record Reporting Procedure: <i>(This section includes MS4 reporting procedures including process steps for record keeping and due dates).</i></p>	<p>Due dates associated with MS4 Report Requirements are listed below.</p> <ul style="list-style-type: none"> • <u>March 10th – March 9th</u>: Reporting period: Required records should be kept and monitored during reporting period. • <u>April 15th</u>: MS4 Report Data Sheets (Attachment E) should be filled out by designated Department Staff Members and submitted to the Department Supervisor. • <u>May 1st</u>: The Department Supervisor should review and submit the final MS4 Report Data Sheets to the report preparer/Town Stormwater Management Officer <p>Additional record keeping and back up information necessary for demonstrating MS4 General Permit compliance will be identified in the MS4 Report Data Sheets if applicable.</p>
<p>D. Training: <i>(This section identifies procedures for training documentation and recommended training needed to facilitate program understanding by responsible implementation staff).</i></p>	<p>1. Inventory and Documentation of Training</p> <ul style="list-style-type: none"> • MCM 3: <ul style="list-style-type: none"> ○ Inventory of relevant staff for MS4 Trainings (to be provided in Attachment E) ○ Number of staff participating (to be provided in Attachment E) • MCM 6: <ul style="list-style-type: none"> ○ Number of trainings provided/date of trainings (to be provided in Attachment E) ○ Inventory of relevant staff for MS4 Trainings (to be provided in Attachment E) ○ Number of staff participating (to be provided in Attachment E) <p>Training information should be maintained in readily accessible files.</p> <p>2. Recommended Training</p> <ul style="list-style-type: none"> • It is recommended that Department Staff/Supervisors should have the following training: <ul style="list-style-type: none"> ○ Training on this SOP ○ IDDE Training ○ Pollution Prevention / Good Housekeeping Training

<p>E. MS4 Report Data Sheets: <i>(This section includes the updated MS4 Report Data Sheets (Attachment E), formerly known as Questionnaires, as well as information the Department is responsible for contributing towards the MS4 Annual Report that was not originally requested in the former Questionnaire).</i></p>	<p>1. MS4 Report Data Sheets (Attachment E) provide required report metrics and definitions/notes.</p> <p>(MS4 REPORT DATA SHEETS ARE ATTACHED)</p>
<p>F. References: <i>(This section includes references to related procedures or documentation that should be consulted or utilized when performing the procedures in the SOP.)</i></p>	<ul style="list-style-type: none">• Town of Huntington Stormwater Management Program Plan https://www.huntingtonny.gov/filestorage/13749/16439/16577/99651/26387/SWMP_Final_1019.pdf• MS4 Annual Report Website https://www.huntingtonny.gov/MS4AnnualReports• Town of Huntington Subdivision and Site Plan Regulations https://www.huntingtonny.gov/filestorage/13749/13847/16804/99886/249480/Subdivision_and_Site_Plan_Regulations_-_FINAL_(Updated_08_18_2021).pdf• Town MS4 Education Materials https://www.huntingtonny.gov/content/13749/16439/16577/99657/43182/default.aspx• Clean Water Act Information https://www.huntingtonny.gov/content/13749/16439/16577/99651/44600/default.aspx• Town Harbor & Bay Water Quality Improvement Projects https://www.huntingtonny.gov/content/13749/16439/16577/99657/43423/default.aspx

ATTACHMENT E: Maritime Services

	Response	Definitions/Notes	
Water Quality Trends			
MCM 1	1. Has this MS4/Coalition produced any reports documenting water quality trends related to stormwater?	Yes/No	If Yes, include documents/studies with this attachment or list the web page where the report is available in the space below
	3. What strategies did your MS4/Coalition use to achieve education and outreach goals during this reporting period?		Enter quantity of each strategy or NA if not relevant to your department
	Construction Site Operators Trained	#/NA	
	Direct Mailings	#/NA	Number of mailings
	Kiosks or Other Displays	#/NA	Number of kiosks or other displays on Town Maritime properties
	Mailing List	#/NA	Number of people on list
	Newspaper Ads or Articles	#/NA	Number of days in the paper
	Public Events/Presentations	#/NA	Approximate amount of public interacted with at Earth Day and other events
	List events attended		Include the name of each event attended
	School Program	#/NA	Number of attendees
	TV Spot/Program	#/NA	Number of days run
	Printed Materials Distributed	#/NA	Amount of printed brochures etc. distributed
	Locations (e.g. Libraries, Town Offices, Yacht Clubs, Kiosks etc.)		Locations where printed materials were distributed
	Web Page	YES/NO	If Yes, provide specific web addresses where educational materials can be accessed in the spaces below
MCM 3	3.b. What types of illicit discharges have been found during this reporting period?	Enter Type(s) of Illicit Discharge Detected	Choose from the following options: Broken Lines From Sanitary Sewer, Cross Connections, Failing Septic Systems, Floor Drains Connected To Storm Sewers, Illegal Dumping, Industrial Connections, Inflow/Infiltration, Pump Station Failure, Sanitary Sewer Overflows, Straight Pipe Sewer Discharges, Other, None (If other include what the source is e.g. Residential Pool Draining)
	4. How many illicit discharges/potential illegal connections have been detected during this reporting period?	#	
	5. How many illicit discharges have been confirmed during this reporting period?	#	
	6. How many illicit discharges/illegal connections have been eliminated during this reporting period?	#	
	11. What percent of staff in relevant positions and departments has received IDDE* training?	%	For this section, relevant staff that has received IDDE training at ANY time may be counted.
	What is the total number of staff in relevant positions?	#	Staff in relevant positions include any staff members in your Department with responsibilities which may involve observing a potential illicit discharge.
	What is the total number of staff in relevant positions that has received IDDE training?	#	
		*IDDE: Illicit Discharge Detection and Elimination. An Illicit discharge means any discharge to the MS4 that is not composed entirely of stormwater and not specifically exempted under Part I.A.2. of the MS4 General Permit.	

MCM 6

<p>1. Choose/list each municipal operation/facility that contributes or may potentially contribute Pollutants of Concern to the MS4 system. For each operation/facility indicate whether a self-assessment has been performed during the reporting period.</p>		<p>A self-assessment is performed to: 1) determine the sources of pollutants potentially generated by the permittee's operations and facilities; 2) evaluate the effectiveness of existing programs and 3) identify the municipal operations and facilities that will be addressed by the pollution prevention and good housekeeping program, if it's not done already.</p>
<p>Was a Self-Assessment of the Operation/Activity/Facility performed within the past 3 years?</p>		<p>Answer Yes or No or N/A if not relevant to your Department</p>
<p>Street Maintenance</p>	<p>Yes/No/NA</p>	
<p>Bridge Maintenance</p>	<p>Yes/No/NA</p>	
<p>Winter Road Maintenance</p>	<p>Yes/No/NA</p>	
<p>Salt Storage</p>	<p>Yes/No/NA</p>	
<p>Solid Waste Management</p>	<p>Yes/No/NA</p>	
<p>New Municipal Construction and Land Disturbance</p>	<p>Yes/No/NA</p>	
<p>Right of Way Maintenance</p>	<p>Yes/No/NA</p>	
<p>Marine Operations</p>	<p>Yes/No/NA</p>	
<p>Hydrologic Habitat Modification</p>	<p>Yes/No/NA</p>	
<p>Parks and Open Space</p>	<p>Yes/No/NA</p>	
<p>Municipal Building</p>	<p>Yes/No/NA</p>	
<p>Stormwater System Maintenance</p>	<p>Yes/No/NA</p>	
<p>Vehicle and Fleet Maintenance</p>	<p>Yes/No/NA</p>	
<p>Other</p>	<p>Yes/No/NA</p>	
<p>3. How many stormwater management trainings have been provided to municipal employees during this reporting period?</p>	<p>#</p>	<p>Provide the number of stormwater management trainings that occurred in your Department during the reporting period. Back up files to support training dates are advisable.</p>
<p>4. What was the date of the last training?</p>	<p>MM/DD/YYYY</p>	<p>Enter the date of the last stormwater training whether it was in the current reporting period or prior reporting period.</p>
<p>5. How many municipal employees have been trained in this reporting period?</p>	<p>#</p>	<p>Provide the total number of employees in the Department that were trained during the reporting period only.</p>
<p>6. What percent of municipal employees in relevant positions and departments receive stormwater management training?</p>	<p>%</p>	<p>Enter the percentage of relevant employees in your department that received stormwater management training. Relevant employees are staff members involved in maintenance and operation activities who have a role in the recognition of preventing or reducing stormwater pollution. This could include personnel directly involved in park and open space operations and maintenance, fleet and building operations and maintenance, stormwater conveyance system operation and maintenance, and municipal facility operations.</p>
	<p>#</p>	<p>Total number of relevant employees</p>
	<p>#</p>	<p>Number of relevant employees trained during this reporting period.</p>
<p>Additional Watershed Improvement Strategy Best Management Practices</p>		
<p>1. Does your MS4/Coalition have an education program addressing impacts of phosphorous/nitrogen/pathogens on waterbodies?</p>	<p>Yes/No</p>	<p>Have the printed educational materials described above in MCM 1 been distributed during this reporting period?</p>

Stormwater Runoff

What is stormwater runoff?

Stormwater runoff is precipitation that flows from roofs, gutters, lawns, patios, driveways, parking lots and roads directly into water bodies or into storm drains and ultimately into groundwater or water bodies.

Why can stormwater runoff be harmful?

As stormwater flows over surfaces it collects harmful pollutants such as sediment, nitrogen, phosphorous, bacteria, oil, grease, trash, pesticides and metals. The pollutants come from a variety of sources including pet/animal waste, lawn fertilization, vehicles, fuel spills, pesticide application and construction sites. Polluted runoff can result in poor water quality, contaminated groundwater, degraded wetland and wildlife habitats, shellfish bed closures, restricted bathing beach access and impaired recreational activities.

What can you do to reduce the impacts of runoff from your property?

- Reduce lawn area and plant native trees and shrubs
- Plant a rain garden
- Disconnect/redirect downspouts
- Use a rain barrel to capture rain from your roof
- Reduce impermeable surfaces
- Install permeable pavers/pavement
- Reduce use of fertilizers, pesticides and herbicides
- Pick up pet waste
- Properly dispose of household waste

