

MS4 General Permit
City of New London 2019 Annual Report
Existing MS4 Permittee
Permit Number GSM00111
January 1, 2019 — December 31, 2019

This report documents the City of New London’s efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 1, 2019 to December 31, 2019.

Part I: Summary of Minimum Control Measure Activities

1. Public Education and Outreach (Section 6 (a)(1) / page 19)

1.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
1-1 Implement public education and outreach	In progress	Conduct a public meeting to inform residents and discuss the program	Educate residents on common stormwater topics	Stormwater Management Authority	Jul 1, 2018	Public meetings held in the successful passage of Ordinance Number 06-18-18-2 for the establishment of a Municipal Stormwater Management Authority (Authority). Continued public education will be conducted through the Authority.	A public meeting regarding a watershed management plan was held in Oct. 2019 and discussed BMP and sources of contamination.
1-2 Address education/outreach for pollutants of concern*	In progress	Develop stormwater section on the City’s website and post materials to	Disseminate information	Department of Public Works / Director	Jul 1, 2018	Posting of materials to be scheduled	Links to public information on stormwater section of City’s website.
1-3 Storm Drain Marking	In progress	Continue adding to existing storm drain markers	Inform the public about restrictions for disposal	Department of Public Works / Director	Jul 1, 2018	Markers were installed	Continued planning for stenciling

1.2 Describe any Public Education and Outreach activities planned for the next year, if applicable.

New London will also provide select materials in printed format to be on display at the New London Department of Public Works main office at 111 Union Street and at City Hall and are made available for pick up.
 New London will distribute information on common sources of phosphorus, nitrogen, bacteria and mercury pollution and how to prevent or reduce the amount reaching the MS4 and discharging into waterways. The primary means of publishing educational materials will be through a dedicated section of the City's website.
 New London created a Municipal Stormwater Management Authority through the passage of Ordinance 06-18-18-2.

1.3 Details of activities implemented to educate the community on stormwater

Program Element/Activity	Audience (and number of people reached)	Topic(s) covered	Pollutant of Concern addressed (if applicable)	Responsible dept. or partner org.
Select materials in printed format on display	Residents and stakeholders	Proper disposal of hazardous products and yard waste, limit use of fertilizers and pesticides	nitrogen and bacteria	Stormwater Management Authority and Southeastern Connecticut Regional Resources Recovery Authority
Information on website	Residents and stakeholders	Annual report	Phosphorus, nitrogen and bacteria	Stormwater Management Authority

2. Public Involvement/Participation (Section 6(a)(2) / page 21)

2.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
2-1 Comply with public notice requirements for the Stormwater Management Plan	Complete	Prepare and post report	Post annually to the City's stormwater website section	Stormwater Management Authority	Apr 3, 2017	Feb 9, 2018	
2-2 Comply with public notice requirements for Annual Reports	Complete	Prepare and post report	Post annually to the City's stormwater website section	Stormwater Management Authority	Feb 15, 2020	April 2020	
2-3 Conduct a Household Hazardous Waste Collection	Yearly	Collection event held and noticed	Continue to participate in the program	Stormwater Management Authority	Dec 31, 2017	Collects held in 2019 were located in surrounding towns	About 100 NL residents attended events held at participating SCRRA facilities surrounding New London in 2019
2-4 Coordinate with Local Stakeholder Groups	In progress	In process of reaching out to stakeholders	Provide stormwater program updates	Stormwater Management Authority	July 1, 2017	To continue until permit expires	Provide stormwater program updates at partner organization and/or local council meetings.

2.2 Describe any Public Involvement/Participation activities planned for the next year, if applicable.

The City plans to involve the community in planning and implementing the City's stormwater management activities. Stakeholders have been identified.

2.3 Public Involvement/Participation reporting metrics

Metrics	Implemented	Date	Posted
Availability of the Stormwater Management Plan announced to public	yes	October 2017	http://ci.new-london.ct.us/content/7429/7431/7459/18132.aspx
Availability of Annual Report announced to public	yes	March 2020	http://ci.new-london.ct.us/content/7429/7431/7459/18132.aspx

3. Illicit Discharge Detection and Elimination (Section 6(o)(3) and Appendix 8 / page 22)

3.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
3-1 Develop written IDDE program	In progress	City is in process of completing written IDDE program using the CT IDDE program template	Develop written plan of IDDE program	Stormwater Management Authority	Jul 1, 2018	Anticipate completing in 2020	
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas	In progress	City dedicated significant resources and mapped approximately 95% of outfalls	Develop list and maps of all outfalls in priority areas	Stormwater Management Authority	Jul 1, 2019	Anticipate completing in 2020	Updated Outfall map attached
3-3 Implement citizen reporting program	complete	Incorporated stormwater complaints through the existing reporting program	Implement citizen reporting program	Stormwater Management Authority	Jul 1, 2018	Completed	
3-4 Establish legal authority to prohibit illicit discharges	Complete	None	Establish legal authority to prohibit illicit discharges	Stormwater Management Authority	Jul 1, 2018	Completed June 5, 2017	
3-5 Develop record keeping system for IDDE tracking	In progress	City conducted best efforts	Develop a system for tracking and developing an SSO inventory	Stormwater Management Authority	Jul 1, 2017	Anticipate completing in 2020	
3-6 Address IDDE in areas with pollutants of concern	In progress	City conducted best efforts	Conduct an initial assessment and use for prioritization of corrective actions once plan is in place	Stormwater Management Authority	Not Specified		Sampling was started in December of 2019, the Stormwater Authority is currently reviewing the data. A new CCTV camera was recently purchase for specific use in storm culverts

3.2 Describe any IDDE activities planned for the next year, if applicable.

Find the source of any illicit discharges, eliminate those illicit discharges and ensure ongoing screening and tracking to prevent and illuminate future illicit discharges. Develop written IDDE program.

3.3 List of citizen reports of suspected illicit discharges received during this reporting period.

Date of Report	Location / suspected source	Response taken

No citizen reports of suspected illicit discharges received during this reporting period.

3.4 Provide a record of illicit discharges occurring during the reporting period and SSOs occurring July 2012 through end of reporting period using the following table.

Location (Lat long/street crossing /address and receiving water)	Date and duration of occurrence	Discharge to MS4 or surface water	Estimated volume discharged	Known or suspected cause / Responsible party	Corrective measures planned and completed (include dates)	Sampling data (if applicable)
Farnsworth Street New London, CT	6/27/2012	Yes, Thames River	3000-5000	Obstruction	Cleared Obstruction 6/27/12	
Sludge Tanks at WWTF	12/19/2014	Yes; Bentley Creek	900	Sludge line failure	Cut, capped and abandoned line, new line installed	
State Pier Road and Thomas Griffin Road	3/20/2015	Yes, Thames River	750	Obstruction	Cleared Obstruction 3/20/15	
Caulkins Park, 43 Crescent Street	6/15/2017	Yes, Thames River	500	Obstruction	Cleared Obstruction 6/15/17	
Orchard and Montauk Ave	8/10/2017	Yes; Thames River	Unable to estimate	Pipe failure	Replaced line 8/11/17	
Montauk Ave and Bank Street	9/1/2017	Yes; Shaw's Cove	11,250	Obstruction	Cleared Obstruction 9/1/17	
Huntington and Williams	10/18/2017	Yes, Thames River	300	Obstruction	Cleared Obstruction 10/18/17	
Huntington and Williams	9/19/2017	Yes, Thames River	22	Obstruction	Cleared Obstruction 9/19/18	

Granite and Williams	5/7/2018	No	860	Obstruction	Cleared Obstruction 5/7/18	
The social bar + Kitchen 208 Bank St.	12/30/2019	Yes, Thames River	10	Social Restaurant	Someone from restaurant pressure wash fryolator over storm drain. Restaurant owner notified, along with ledge light health district. Owner was told of ordinance sec.21-100 (FOG minimization) and Connecticut Public Health Code 19-13-B42. 12/30/19	
Parkway North at Glenwood Park SO	12/19/2019	Yes, Thames River	Unable to estimate	Pipe Failure	The broken sanitary sewer was replaced on Jan 16 th , 2020	OF_NL-08

3.5 Briefly describe the method used to track illicit discharge reports, responses to those reports, and who was responsible for tracking this information.

SSO's are tracked by DEEP guidelines. Stormwater Authority is in the process of developing an illicit discharge report tracking system.

3.6 Provide a summary of actions taken to address septic failures using the table below.

Location and nature of structure with failing septic systems	Actions taken to respond to and address the failures	Impacted waterbody or watershed, if known
344 Bayonet Street, residential	Septic system was rebuilt	Briggs brook which flows to Winthrop Cove & Thames River

3.7 IDDE reporting metrics

Metrics	
Estimated or actual number of MS4 outfalls	99, estimated
Estimated or actual number of interconnections	46, estimated
Outfall mapping complete	100%
Interconnection mapping complete	100% estimated
System-wide mapping complete (detailed MS4 infrastructure)	100%
Outfall assessment and priority ranking	42%
Dry weather screening of all High and Low priority outfalls complete	42
Catchment investigations complete	0
Estimated percentage of MS4 catchment area investigated	30%

3.8 Briefly describe the IDDE training for employees involved in carrying out IDDE tasks including what type of training is provided and how often is it given (minimum once per year).

Training was provided to staff by a seminar entitled "MS4 IDDE Workshop", September 27, 2017. Stormwater Management Authority staff will maintain annual training going forward.

4. Construction Site Runoff Control (Section 6(a)(4) / page 25)

4.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
4-1 Implement, upgrade, and enforce land use regulations or other legal authority to meet requirements of MS4 general permit	In progress	City conducted best efforts	Review land use regulations and revise if required	Planning, Zoning and Wetlands Division and Stormwater Management Authority	Jul 1, 2019	Discharge ordinance adopted June 5, 2017	Stormwater Management Authority completed a draft Stormwater Design Guideline and will soon be published.
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval	Completed	Stormwater Management Section added to Planning and Zoning Regulations	Evaluate current practices and update as needed	Department of Public Works/ City Civil Engineer/Stormwater Management Authority	Jul 1, 2017	In place	Stormwater Management Authority put in place
4-3 Review site plans for stormwater quality concerns	Ongoing	City conducted best efforts	Evaluate current practices and update as needed	Department of Public Works/ City Civil Engineer	Jul 1, 2017	In place	Stormwater Management Authority put in place. Dedicated staff for site plan review.
4-4 Conduct site inspections	Ongoing	City conducted best efforts	Develop an inspection program that includes new permit requirements	Planning, Zoning and Wetlands Division	Jul 1, 2017	In place	Stormwater Management Authority put in place. Dedicated staff for inspections.
4-5 Implement procedure to allow public comment on site development	Complete	City conducted best efforts	Develop a system to track and log comments	Planning, Zoning and Wetlands Division	Jul 1, 2017	In place	Stormwater Management Authority put in place to assist.

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
4-6 Implement procedure to notify developers about DEEP construction stormwater permit	On going	City conducted best efforts	Include notification to developers about DEEP construction stormwater permit in permit application materials	Planning, Zoning and Wetlands Division/ Stormwater Management Authority	Jul 1, 2017	In place	Stormwater Management Authority put in place to assist.

4.2 Describe any Construction Site Runoff Control activities planned for the next year, if applicable.

Minimize polluted stormwater runoff from construction sites and prevent it from carrying sediment into waterways via MS4 infrastructure. Stormwater Management Authority is developed a draft design manual containing guidelines. The manual will soon be published.

5. Post-construction Stormwater Management (Section 6(o)(5) / page 27)

5.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
5-1 Establish and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning	In progress	City conducted best efforts. Site reviews done consistently with Connecticut Stormwater Quality Manual.	Review legal authority and guidelines in order to verify compliance approach	Planning, Zoning and Wetlands Division/ Stormwater Management Authority	Jul 1, 2021	Design guidelines will be published spring 2020	Stormwater Management Authority has drafted Stormwater Design Guidelines.
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects	In progress	City conducted best efforts. Site reviews done consistently with Connecticut Stormwater Quality Manual.	Promote LID techniques, project bid requirements, and information meetings with developers on stormwater section of the City's website	Planning, Zoning and Wetlands Division/ Stormwater Management Authority	Jul 1, 2021	Design guidelines will be published spring 2020	Stormwater Management Authority has drafted Stormwater Design Guidelines.
5-3 Identify retention and detention ponds in priority areas	In progress	City conducted best efforts	Inventory relevant structures	Stormwater Management Authority	Jul 1, 2019	ongoing	Stormwater Management Authority is in the process of identifying.
5-4 Implement long-term maintenance plan for stormwater basins and treatment structures	In progress	City conducted best efforts	Inventory relevant structures and develop a schedule	Stormwater Management Authority	Jul 1, 2019	ongoing	Stormwater Management Authority is in the process of developing.

5-5 Complete DCIA mapping	In progress	City conducted best efforts	Conduct best effort to complete DCIA mapping	Stormwater Management Authority	Jul 1, 2020	Anticipate completing by July 1, 2020	Stormwater Management Authority created, and dedicated staff completed mapping as described in 3.7
5-6 Address post-construction issues in areas with pollutants of concern	In progress	City conducted best efforts	Prioritize areas impaired by nitrogen, phosphorous and bacteria	Stormwater Management Authority	Jul 1, 2019	ongoing	Stormwater Management Authority was created, site inspections are conducted, and efforts are in place for the development of Stormwater Design Guidelines.

5.2 Describe any Post-Construction Stormwater Management activities planned for the next year, if applicable.

Mitigate the long-term impacts of new and re-development projects on water quality through proper use of low impact development and runoff reduction practices. Stormwater Design Guidelines are being developed.

5.3 Post-Construction Stormwater Management reporting metrics

Metrics	
Baseline (2012) Directly Connected Impervious Area (DCIA)	918 acres
DCIA disconnected (redevelopment plus retrofits)	2 acres total
Retrofits completed	0
DCIA disconnected	0% this year / <1% total since 2012
Estimated cost of retrofits	unknown
Detention or retention ponds identified	0 this year / 0 total

5.4 Briefly describe the method to be used to determine baseline DCIA.

Used MS4 Map provided by NEMO to determine City wide impervious cover percentage. Assumed mostly storm sewered with curb and gutter, residential rooftops not connected to MS4. Percent DCIA approximately 26% of the City area.

6. Pollution Prevention/Good Housekeeping (Section 6(o)(6) / page 31)

6.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
6-1 Develop/implement formal employee training program	In progress	City conducted best efforts	Conduct annual MS4 training	Stormwater Management Authority	Jul 1, 2018	Training complete, but will be ongoing	
6-2 Implement MS4 property and operations maintenance	In progress	City conducted best efforts	Identify standard maintenance procedures and evaluate improvements for city-owned properties, parks and other facilities	Department of Public Works/ Stormwater Management Authority	Jul 1, 2018	Ongoing	
6-3 Implement coordination with interconnected MS4s	In progress	City conducted best efforts	Meet with relevant MS4s and CT DOT to discuss coordination	Department of Public Works/ Stormwater Management Authority	Not specified	Ongoing	Coordinate with adjoining municipalities
6-4 Develop/implement program to control other sources of pollutants to the MS4	In progress	City conducted best efforts	Identify commercial, industrial, municipal, institutional and other facilities not otherwise authorized by a CT DEEP stormwater permit	Stormwater Management Authority	Not specified	Ongoing	City created a Stormwater Management Authority to implement

6-5 Evaluate additional measures for discharges to impaired waters	In progress	City conducted best efforts	Implement turf management practices and identify retrofits where needed for discharges to impaired waters	Department of Public Works/ Stormwater Management Authority	Not specified	Ongoing	City created a Stormwater Management Authority to implement
6-6 Track projects that disconnect DCIA	On going	City conducted best efforts	Annually track the total acreage of DCIA disconnected from the MS4 and reflect in the Annual Report	Stormwater Management Authority	Jul 1, 2017	ongoing	City created a Stormwater Management Authority to implement
6-7 Implement infrastructure repair/rehab program	In progress	City conducted best efforts	Prioritize infrastructure for repair / rehab based on inspections and outfall screening data	Stormwater Management Authority	Jul 1, 2021	Anticipate completing by July 1, 2021	City created a Stormwater Management Authority to implement
6-8 Develop/implement plan to identify/prioritize retrofit projects	In progress	City conducted best efforts	Identify potential DCIA disconnection projects	Department of Public Works/ Director	Jul 1, 2020	Anticipate completing by July 1, 2020	City created a Stormwater Management Authority to implement
6-9 Implement retrofit projects to disconnect 2% of DCIA	In progress	City conducted best efforts	Implement DCIA disconnection plan	Department of Public Works/ Director	Jul 1, 2022	Anticipate completing by July 1, 2022	City created a Stormwater Management Authority to implement
6-10 Develop/implement street sweeping program	On going	City conducted best efforts	Continue to sweep all parking lots and streets at least once per year	Department of Public Works/ Director	Jul 1, 2017	ongoing	Every street was swept in 2019. 77 miles total.

6-11 Develop/implement catch basin cleaning program	On going	City conducted best efforts	Track catch basin cleaning and develop a schedule	Department of Public Works / Director	Jul 1, 2020	Anticipate completing by July 1, 2020	City created a Stormwater Management Authority to implement
6-12 Develop/implement snow management practices	On going	City conducted best efforts	Track and work to reduce salt application	Department of Public Works / Stormwater Management Authority	Jul 1, 2018	ongoing	City created a Stormwater Management Authority to implement

6.2 Describe any Pollution Prevention/Good Housekeeping activities planned for the next year, if applicable.

Prevent or reduce pollutant runoff as a result of municipal operations.

6.3 Pollution Prevention/Good Housekeeping reporting metrics

Metrics	
Employee training provided for key staff	Yes; Sept 7, 2017
Street sweeping	
Curb milleswept	77 miles
Volume (or mass) of material collected	242 yards
Catch basin cleaning	
Total catch basins in priority areas	0
Total catch basins in MS4	Estimated 1,700
Catch basins inspected	1,100
Catch basins cleaned	282
Volume (or mass) of material removed from all catch basins	106.9
Volume removed from catch basins to impaired waters (if known)	0 tons
Snow management	
Type(s) of deicing material used	DVRN Treated Salt
Total amount of each deicing material applied	1,000 tons
Type(s) of deicing equipment used	Sander / Spreader
Lane-miles treated	126

Snow disposal location(s)	New London Parade Plaza; Riverside Park
Staff training provided on application methods & equipment	Yes; continuous
Municipal turf management program actions (for permittee properties in basins with N/P impairments)	
Reduction in application of fertilizers (since start of permit)	0%
Reduction in turf area (since start of permit)	0 acres
Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems)	
Cost of mitigation actions/retrofits	\$0.00

*since 2017

6.4 Catch basin cleaning program

Briefly describe the method used to optimize your catch basin inspection and cleaning schedule.

City created a Stormwater Management Authority to continue to implement

6.5 Retrofit Program

Briefly describe the Retrofit Program identification and prioritization process, the projects selected for implementation, the rationale for the selection of those projects and the total DCIA to be disconnected upon completion of each project.

City created a Stormwater Management Authority to implement

Describe plans for continuing the Retrofit program and how to achieve a goal of 1% DCIA disconnection in future years.

City created a Stormwater Management Authority to implement

Describe plans for continuing the Retrofit program beyond this permit term with the goal to disconnect 1%DCA annually over the next 5 years.

City created a Stormwater Management Authority to implement

Part II: Impaired waters investigation and monitoring

1. Impaired waters investigation and monitoring program

1.1 Indicate which stormwater pollutant(s) of concern occur(s) in your municipality or institution. This data is available on the MS4 map viewer: <http://s.uconn.edu/ctms4map>.

Nitrogen/ Phosphorus Bacteria Mercury Other Pollutant of Concern

1.2 Describe program status.

<p>Discuss 1) the status of monitoring work completed, 2) a summary of the results and any notable findings, and 3) any changes to the Stormwater Management Plan based on monitoring results.</p>
<p>Monitoring work continues. Samples were taken at 41 outfalls over a span of 7 non-consecutive days. Select outfalls were sampled more than once.</p>

2. Screening data for outfalls to impaired waterbodies (Section 6(i)(1) / page 41)

2.1 Screening data collected under 2017 permit

Complete the table below for any outfalls screened during the reporting period. Each Annual Report will add on to the previous year’s screening data showing a cumulative list of outfall screening data.

Outfall ID	Sample date	Parameter (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	Results	Name of Laboratory (if used)	Follow-up required?
OF_NL_04	12/19/2019	Nitrogen, Bacteria	N = 4 Mg/L Enterococci = 5400 MPN/100 F Coliform = 5500MPN/100	Microbac Laboratories, Inc. Dayville, CT	Yes
OF_NL_04	12/23/2019	Nitrogen, Bacteria	N = 4.61 Mg/L E. Coli = 1120MPN/100 F Coliform = 2419.6 MPN/100	Microbac Laboratories, Inc. Dayville, CT	Yes
OF_NL_06	12/13/2019	Nitrogen, Bacteria	N = 1.31 Mg/L Enterococci = 60 MPN/100 F Coliform = <10 MPN/100	Microbac Laboratories, Inc. Dayville, CT	No

OF_NL_07	12/16/2019	Nitrogen, Bacteria	Dry		No
OF_NL_08	12/19/2019	Nitrogen, Bacteria	N = 4.88 Mg/L Enteroto = 190 MPN/100 F Coliform = 360 MPN/100	Microbac Laboratories, Inc. Dayville, CT	Yes
OF_NL_09	12/16/2019	Nitrogen, Bacteria	Dry		No
OF_NL_10	12/19/2019	Nitrogen, Bacteria	N = 2.98 Mg/L Enteroto = 10 MPN/100 F Coliform = < 10 MPN/100	Microbac Laboratories, Inc. Dayville, CT	Yes
OF_NL_11	12/16/2019	Nitrogen, Bacteria	Dry		No
OF_NL_12	12/16/2019	Nitrogen, Bacteria	Dry		No
OF_NL_13	12/5/2019	Nitrogen, Bacteria	Dry		No
OF_NL_13	12/19/2019	Nitrogen, Bacteria	N = 1.58 Mg/L Enteroto = 10 MPN/100 F Coliform = < 10 MPN/100	Microbac Laboratories, Inc. Dayville, CT	No
OF_NL_14	12/16/2019	Nitrogen, Bacteria	Dry		No
OF_NL_18	12/16/2019	Nitrogen, Bacteria	Dry		No
OF_NL_20	12/16/2019	Nitrogen, Bacteria	Dry		No
OF_NL_21	12/16/2019	Nitrogen, Bacteria	Dry		No
OF_NL_23	12/23/2019	Nitrogen, Bacteria	N = 1.76 Mg/L Enteroto = 10 MPN/100 F Coliform = 40 MPN/100	Microbac Laboratories, Inc. Dayville, CT	No
OF_NL_23U	12/23/2019	Nitrogen, Bacteria	N = 1.77 Mg/L Enteroto = < 10 MPN/100 F Coliform = 10 MPN/100	Microbac Laboratories, Inc. Dayville, CT	No
OF_NL_29 Manhole	12/24/2019	Nitrogen, Bacteria	N = 64.7 Mg/L Enteroto = 15200 MPN/100 F Coliform = 161000 MPN/100	Microbac Laboratories, Inc. Dayville, CT	Yes
OF_NL_29 Catchbasin	12/24/2019	Nitrogen, Bacteria	N = 1.18 Mg/L Enteroto = < 10 MPN/100 F Coliform = < 10 MPN/100	Microbac Laboratories, Inc. Dayville, CT	Yes
OF_NL_32	12/23/2019	Nitrogen, Bacteria	Dry		No
OF_NL_35	12/27/2019	Nitrogen, Bacteria	Dry		No
OF_NL_37	12/27/2019	Nitrogen, Bacteria	N = 1.77 Mg/L Enteroto = < 10 MPN/100 F Coliform = < 10 MPN/100	Microbac Laboratories, Inc. Dayville, CT	No

OF_NL_38	12/27/2019	Nitrogen, Bacteria	Dry		No
OF_NL_40	12/23/2019	Nitrogen, Bacteria	Dry		No
OF_NL_43	12/27/2019	Nitrogen, Bacteria	N = 1.5 Mg/L E. Coli = < 1 MPN/100 T Coliform = 96 MPN/100		No
OF_NL_45	12/13/2019	Nitrogen, Bacteria	Dry		No
OF_NL_49	12/16/2019	Nitrogen, Bacteria	Dry		No
OF_NL_53	12/13/2019	Nitrogen, Bacteria	Dry		No
OF_NL_54	12/13/2019	Nitrogen, Bacteria	Dry		No
OF_NL_62	12/16/2019	Nitrogen, Bacteria	Dry		No
OF_NL_66	12/16/2019	Nitrogen, Bacteria	Dry		No
OF_NL_69	12/23/2019	Nitrogen, Bacteria	Dry		No
OF_NL_70	12/23/2019	Nitrogen, Bacteria	Dry		No
OF_NL_71	12/23/2019	Nitrogen, Bacteria	Dry		No
OF_NL_73	12/13/2019	Nitrogen, Bacteria	Dry		No
OF_NL_74	12/13/2019	Nitrogen, Bacteria	Dry		No
OF_NL_78	12/16/2019	Nitrogen, Bacteria	Dry		No
OF_NL_79	12/16/2019	Nitrogen, Bacteria	Dry		No
OF_NL_87	12/16/2019	Nitrogen, Bacteria	Dry		No
OF_NL_88	12/16/2019	Nitrogen, Bacteria	Dry		No
OF_NL_90	12/16/2019	Nitrogen, Bacteria	Dry		No
OF_NL_97	12/16/2019	Nitrogen, Bacteria	Dry		No
OF_SOC_03	12/27/2019	Nitrogen, Bacteria	Dry		No
OF_SOC_04	12/27/2019	Nitrogen, Bacteria	Dry		No
OF_SOC_16	12/27/2019	Nitrogen, Bacteria	Dry		No
OF_SOC_25	12/27/2019	Nitrogen, Bacteria	Dry		No

2.2 Credit for screening data collected under 2004 permit

If any outfalls to impaired waters were sampled under the 2004 MS4 permit, that data can count towards the monitoring requirements under the modified 2017 MS4 permit. Complete the table below to record sampling data for any outfalls to impaired waters under the 2004 MS4 permit.

Outfall	Sample date	Parameter (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	Results	Name of Laboratory (if used)	Follow-up required?
<i>See attached report with samples taken in 2010 and 2014</i>					

3. Follow-up investigations (Section 6(i)(1)(D) / page 43)

Provide the following information for outfalls exceeding the pollutant threshold.

Outfall	Status of drainage area investigation	Control measure implementation to address impairment
OF_NL_04	Yes, follow-up investigation planned for early 2020	
OF_NL_08	Investigated and located broken cast iron sewer line	Replaced cast iron sewer with PVC in January 2020
OF_NL_10	Yes, follow-up investigation planned for early 2020	

Part III: Additional IDDE Program Data

1. Assessment and Priority Ranking of Catchments data (Appendix B (A)(7)(c) / page 5)

Provide a list of all catchments with ranking results (DEEP basins may be used instead of manual catchment delineations).

1. Catchment ID (DEEP Basin ID)	2. Category	3. Rank

2. Outfall and Interconnection Screening and Sampling data (Appendix B (A)(7)(d) / page 7)

2.1 Dry weather screening and sampling data from outfalls and interconnections

Provide sample data for outfalls where flow is observed. Only include Pollutant of concern data for outfalls that discharge into stormwater impaired waterbodies.

Outfall / Interconnection ID	Screening / sample date	Ammonia (Mg/L)	Chlorine (ppm)	Conductivity (uS)	Salinity (ppt)	E. coli or enterococcus (/100mL)	Surfactants (ppm)	Water Temp (Celsius)	Pollutant of concern (Nitrogen Mg/L)	If required, follow-up actions taken
OF_NL_04	12/19/2019	0	0	726	0.36	Enterococcus = 5400	0.5	11.3	4.0	Yes, follow-up investigation planned for early 2020
OF_NL_04	12/23/2019	0	0	704	0.35	E.Coli = 1119.9	0.25	13.4	4.61	Yes, follow-up investigation planned for early 2020
OF_NL_06	12/13/2019	0	0	365	0.14	Enterococcus = 60	0.25	11.7	1.31	
OF_NL_08	12/19/2019	0	0	1509	0.76	Enterococcus = 190	0.25	7.8	4.88	Yes, broken sewerline was discovered and corrected in Jan. 2020
OF_NL_10	12/19/2019	0.25	0	1375	0.69	Enterococcus = 10	0.25	10.4	2.98	
OF_NL_13	12/19/2019	0.25	0	218	0.11	Enterococcus = 10	0.25	10.5	1.58	

OF_NL_23	12/23/2019	0	0	1761	1.32	Enterococcus = < 10	0.5	14.2	1.76	
OF_NL_23U	12/23/2019	0	0	1678	0.84	Enterococcus = < 10	0.25	14.4	1.77	
OF_NL_29 Manhole	12/24/2019	0	0	760	0.4	Enterococcus = 15200	3	10.1	64.7	Yes, follow-up investigation planned for early 2020
OF_NL_29 Catchbasin	12/24/2019	0	0	14.11	7.53	Enterococcus = < 10	1.5	15.1	1.18	
OF_NL_37	12/27/2019	0	0	1508	0.69	Enterococcus = < 10	0.25	12.9	1.77	
OF_NL_43	12/27/2019	0	0	257	0.12	E.Coli = < 1	0.25	11.1	1.5	

2.2 Wet weather sample and inspection data

Provide sample data for outfalls and key junction manholes of any catchment area with at least one System Vulnerability Factor.

Outfall / Interconnection ID	Sample date	Ammonia	Chlorine	Conductivity	Salinity	E. coli or Enterococcus	Surfactants	Water Temp	Pollutant of concern

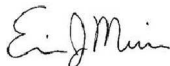
3. Catchment Investigation data (Appendix B (A)(7)(e) / page 9)

3.1 System Vulnerability Factor Summary

For those catchments being investigated for illicit discharges (i.e. categorized as high priority, low priority, or problem) document the presence or absence of System Vulnerability Factors (SVF). If present, report which SVF's were identified. An example is provided below.

Outfall ID	Receiving Water	System Vulnerability Factors

Part IV: Certification

<p>“I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with Section 22a-6 of the Connecticut General Statutes, pursuant to Section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute.”</p>	
Chief Elected Official or Principal Executive Officer	Document Prepared by
Print name:	Print name: Eric Muir, P.E.
Signature / Date:	Signature / Date: 

ATTACHMENTS



**NEW LONDON
STORM SEWER SYSTEM MAP**