MS4 General Permit
Town of Windsor 2024 Annual Report
Permit Number GSM 000066
January 1, 2024 – December 31, 2024
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This report documents Town of Windsor's efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 1, 2024 to December 31, 2024.

Part I: Summary of Minimum Control Measure Activities

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

1.1 BMP Summary

BMP	Activities in current reporting period	Sources Used (if applicable)	Method of Distribution	Audience (and number of people reached)	Measurable Goal	Department / Person Responsible	Additional details
1-1 Implement public education and outreach	Stormwater Management information and educational material available on the Town's website		Town website	Residents	Distribute/Post stormwater information on Town's website	Engineering	http://townofwindsorct.com/engineering/stormwater-management/
1-2 Address education/ outreach for pollutants of concern	Stormwater Management information and educational material available on the Town's website		Town website	Residents	Distribute/Post stormwater information on Town's website	Engineering	http://townofwindsorct.com/engineering/stormwater-management/

1-3 Household Hazardous Waste Collection	Household Hazardous waste collection events held between May and October			Resident	Educate and provide hazardous waste collections	MDC	Windsor residents may participate in any MDC sponsored collection day.

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

- Maintain information material on Town website
- Continue Household Hazardous Waste Collection Events
- Continue to participate in community clean-up events
- Continue to replace catch basin tops with “Drains to Waterway” labeling

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

2.1 BMP Summary

BMP	**Status** (Complete, Ongoing, In Progress, or Not started)	**Activities in current reporting period**	**Measurable Goal**	**Department / Person Responsible**	**Date completed or projected completion date** (include the start date for anything that is 'in progress')	**Location Posted**	**Additional details**
2-1 Final Stormwater Management Plan publicly available	Ongoing	Electronic copy posted on the Town's website. Hard copies available at the Engineering department front desk in Town Hall.	Make Stormwater Management Plan available to citizens	Engineering	04/1/2025	https://townofwindsorct.com/engineering/stormwater-management/	
2-2 Comply with public notice requirements for Annual Reports (annually by 2/15)	Ongoing	Legal notice published. Electronic posted on the Town's website. Hard copies available at the Engineering department front desk in Town Hall.	Make annual report available to citizens	Engineering	Public Notice to be Published – 1/31/2025 Draft Annual Report to be Available – 2/15/2025	https://townofwindsorct.com/engineering/stormwater-management/	

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

Continue to make Stormwater Plan, Annual Report, and educational materials available to citizens.

3. Illicit Discharge Detection and Elimination (Section 6(*a*)(3) and Appendix B / page 22)

3.1 BMP Summary

BMP	**Status** (Complete, Ongoing, In Progress, or Not started)	**Activities in current reporting period**	**Measurable Goal**	**Department / Person Responsible**	**Date completed or projected completion date** (include the start date for anything that is 'in progress')	**Additional details**
3-1 Develop written IDDE program (Due 7/1/19)	Complete	Town follows adopted IDDE program	Develop written plan of IDDE program	Engineering	7/1/2018	
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas (Due 7/1/20)	Complete	Town continues a QA/QC process of reviewing GIS system and editing as necessary	Locate, document, and prioritize outfalls in areas of concern	Engineering	3/20/2018	Mapping and data will continue to be updated as outfalls are tested/repaired/etc.
3-3 Implement citizen reporting program (Ongoing)	Complete	Citizens may report Illicit Discharges through See-Click-Fix, the Town's online reporting system	Utilize citizen reporting program for identification of potential illicit discharges	Engineering	Ongoing	Citizens may report illicit discharges as they would report other concerns to the Town
3-4 Establish legal authority to prohibit illicit discharges (Due 7/1/19)	Complete	Illicit Discharges and Connections prohibited under Chapter 3, Article X of the Town of Windsor Code of Ordinances	Identify legal authority in written IDDE Program	Engineering	9/08/2009	
3-5 Develop record keeping system for IDDE tracking (Due 7/1/17)	Complete	Town continues to maintain a list of reports that include IDDE.	Maintain a record of IDDE reports and actions	Engineering	9/13/2017	
3-6 Address IDDE in areas with pollutants of concern	Ongoing	Town has procured service of qualified firm to test and evaluate areas of concern.	Develop plan to address areas with high levels of pollutants	Engineering	Ongoing	

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

- Continue Dry weather screening program
- Illicit discharges will continue to be investigated and eliminated, as they are discovered
- Maintain master IDDE tracking spreadsheet and ensure all employees involved in IDDE program understand the logging process.

3.3 Provide a record of all citizen reports of suspected illicit discharges and other illicit discharges occurring during the reporting period and SSOs occurring July 2017 through end of reporting period using the following table. Illicit discharges are any unpermitted discharge to waters of the state that do not consist entirely of stormwater or uncontaminated groundwater except those discharges identified in Section 3(a)(2) of the MS4 general permit when such non-stormwater discharges are not significant contributors of pollution to a discharge from an identified MS4.

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)
*Ridge Street Pump Station	01/18/2018	Yes	10,000	Differential Settlement	Forced main break repaired by sewer crew Regular maintenance of main sewer	N/A
*East Street	04/12/2020	No	100	Debris	Crew cleared blockage of the main sewer Regular maintenance of main sewer	N/A
80 International Drive	06/24/2020	Yes	3000	Debris – Private System	Sewer line flushed by jet truck and stoppage relieved Property owner instructed to inspect/clean impacted catchbasins and any downstream pipe/structures that received flow	N/A
*Broad Street	03/18/2022	No	<100	Collapsed Building Lateral	Collpased pipe was replaced by sewer crew Regular maintenance of main sewer	N/A
40 Corey Street	06/27/2022	Yes	Unknown	Concrete Washout	Roadway swept to remove remaining debris. Catchbasins inspected. All catch basins suspected of receiving debris were cleaned. All storm pipes suspected of receiving debris were flushed.	N/A
47 Mayflower Road	3/31/2023	Yes	Unknown	Sump Pump	Resident informed how to properly amend. No illicit discharge occurred.	N/A
131 Country Club	5/10/2023	No	Unknown	Yard drain	Notice provided to resident ahead of Town's milling and paving program.	N/A
21 Arrowbrook Road	5/11/2023	Yes	Unknown	Debris	Notice sent to resident, motor oil leaking from vehicle.	N/A
*503 Windsor Ave	9/30/2023	No	100-1000	Weather Conditions	Surcharge backups eliminated once sewer flows receded back to normal	N/A
*Windsor Ave @ Arrowbrook	9/29/2023	No	75,000-100,000	Weather Conditions	Surcharge backups eliminated once sewer flows receded back to normal	N/A

*511 Arrowbrook Road	1/10/2024	No	100-1000	Weather Conditions	Surcharge backups are eliminated once elevated sewer flows recede back to normal	N/A
*525 Windsor Ave	1/13/2024	Yes	100-1000	Weather Conditions	Bypass is eliminated once flows drop below overflow	N/A
112 Ford Road	7/29/2024	No	Unknown	Debris	Notice sent to resident, grass clippings placed on catch basin.	N/A
48 Allen Street	11/4/2024	Yes	Unknown	Concrete Washout	Notice sent to contractor performing work.	N/A
116 Alcott Drive	12/26/2024	Yes	Unnown	Yard Drain	Notice sent to resident. Yard drain installed in town right-of-way. Resident addressing issue.	N/A
*SSO information provided by MDC						

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

Method used to track illicit discharge reports	Location and nature of structure with failing septic systems	Actions taken to respond to and address the failures	Impacted waterbody or watershed, if known	Dept. / Person responsible
	899 Marshall Phelps Road	Full System Repair	None	Health Dept.
	468 Kennedy Road	Tank Repair Only	None	Health Dept.
	6 Miles Avenue	Full System Replacement	None	Health Dept.
	110 Belmont Avenue	Full Repair	None	Health Dept.
	8 Hilltop Road	Tank Repair Only	None	Health Dept.
	951 Rainbow Road	Full System Repair	None	Health Dept.
	77 Prospect Hill Road	Tank Repair Only	None	Health Dept.
	33 Shelley Avenue	Full System Repair	None	Health Dept.

3.5 Briefly describe the method and effectiveness of said method used to track illicit discharge reports.

- Citizens can report an illicit discharge through the Town's website via the "See-Click-Fix" program
- An IDDE tracking form is available to all trained employees
- All discharges are reported to the Engineering Department for determining parties responsible and mitigating solutions
- A list of IDDE occurances is maintained by the Engineering Department

3.6 IDDE reporting metrics

Metrics	
Estimated or actual number of MS4 outfalls	577

Estimated or actual number of interconnections	Unknown
Outfall mapping complete	100%
Interconnection mapping complete	Unknown
System-wide mapping complete (detailed MS4 infrastructure)	100%
Outfall assessment and priority ranking	75%
Dry weather screening of all High and Low priority outfalls complete	23
Catchment investigations complete	0
Estimated percentage of MS4 catchment area investigated	0%

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

- Town staff has been educated about the illicit discharge ordinance since it was adopted in 2009
- New DPW employees are trained on IDDE by crew leaders
- A formal annual training plan is in progress to comply written IDDE

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

4.1 BMP Summary

BMP	**Status** (Complete, Ongoing, In Progress, or Not started)	**Activities in current reporting period**	**Measurable Goal**	**Department / Person Responsible**	**Date completed or projected completion date** (include the start date for anything that is 'in progress')	**Additional details**

4-1 Implement, upgrade, and enforce land use regulations or other legal authority to meet requirements of MS4 general permit (Due 7/1/20)	Complete	Town follows and enforces adopted Erosion and Sediment Control and Stormwater Management Ordiances	Review and, if necessary, update the Town's Erosion and Sediment Control Ordinance (enacted in 2009) to ensure compliance with MS4 general permit	Engineering	In Progress	Town ordinance requires an application for an Erosion and Sediment Permit to be submitted and approved for all land disturbing activities greater than one-half acre in size
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval (Ongoing)	Ongoing	Staff Development team reviewed and/or approved Site Plan/Revision applications received in 2022	Review of all Site Plans and Development Applications performed by the Staff Development Team	Planning	In Progress	
4-3 Review site plans for stormwater quality concerns (Ongoing)	Ongoing	Staff Development Team reviewed and/or approved Site Plan/Revision applications received in 2024	Review of all Site Plans and Development Applicaions performed by the Engineering Staff for stormwater quality concerns	Engineering	In Progress	Zoning Regulations require conformance with the Town's Stormwater Management Ordiance. If a Stormwater Management permit is required by the Stormwater Ordiance, evidence of an approved permit shall be a condition of approval for all zoning approvals required by the proposed development/activity. For sites that do not require a Stormwater Management Permit, Section 3.6.1 of the Zoning Regulations outlines minimum requirements that must be met.
4-4 Conduct site inspections (Ongoing)	Ongoing	Completed/Documented necessary site inspections for all permitted	Conduct and document site inspections	Engineering/Wetlands	In Progress	

		development/redevelopment sites. Violations/Concerns documented and reported to applicants. Follow-up inspections performed.				
4-5 Implement procedure to allow public comment on site development (Ongoing)	Ongoing	Allow Public review and comment of all open development applications	Post applications online on the Planning Department website for public review.	Planning	In Progress	
4-6 Implement procedure to notify developers about DEEP construction stormwater permit (Ongoing)	Ongoing	Notified developers about DEEP's construction stormwater permit during development application review	Develop/Implement a Site Development Plan Checklist	Planning	In Progress	Registration under CT DEP General permit for the Discharge of Stormwater and Dewatering Wastewaters associated with Construction Activities is a requirement of the Town's permitting process.

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

- Continue to review and update ordinances and regulations to comply with MS4 General Permit
- Continue interdepartmental coordination in Board Reviews, Permitting, and Approval of Land Disturbance Projects
- Continue administration of the Town's Erosion & Sediment Control Ordiance, Permit Applications and Site Inspections

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

5.1 BMP Summary

BMP	Status (Complete, Ongoing, In Progress, or Not started)	Activities in current reporting period	Measurable Goal	Department / Person Responsible	Date completed or projected completion date (include the start date for anything that is 'in progress')	Additional details
5-1 Establish and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning (Due 7/1/22)	In Process	None	Adopt amended ordiance and/or regulations to be compliant with the MS4 general permit	Engineering	In Progress	In 2009, the Town adopted a Stormwater Management Ordinance and published a Town Stormwater Manual to meet the Post-Construction Stormwater Runoff requirements of the 2023 General Permit
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects (Due 7/1/22)	Ongoing	Engineering review of site plans requires consideration of disconnection and runoff reduction	Compliance with requirements enforced and tracked	Engineering	Ongoing	Developers are required to execute an Inspection & Maintenance Agreement with Windsor Land Records prior to commencing work. The Inspection & Maintenance Agreement identifies the person(s) responsible and establishes a schedule for routine inspections and maintenance.
5-3 Identify retention and detention ponds in priority areas (Due 7/1/20)	In Process	None	Develop and maintain a list of all retention and detention ponds, swirl oncentrators, oil/grit separators, water quality wetlands or wales, etc. approved on private and municipal property.	Engineering	Ongoing	Town staff researched and identified Town-owned basins. Several basins were re-established in 2019 in order to annually maintain based on long-term maintenance plans.
5-4 Implement long-term maintenance plan for stormwater basins and treatment structures (Ongoing)	Ongoing	Town continued maintenance of stormwater detention basins	Create and inspection and maintenance plan for stormwater structures	DPW	Ongoing	During the appropriate time of year and following permitting through Inland Wetlands, DPW has implemented ongoing maintenance to re-establish basins (if required based on overgrowth), and provide a mowing schedule

						consistent with best management practices.
5-5 DCIA mapping (Due 7/1/20)	Complete	None	Calculate DCIA by basin and document on MS4 mapping	Engineering	07/01/2020	DCIA calculations completed using Sutherland Equations as outlined by UCONN CLEAR
5-6 Address post-construction issues in areas with pollutants of concern	Not Started	None	Prioritize areas where erosion or sedimentation problems are found during the annual inspections conducted under the long-term maintenance plan within DCIA retrofit program			

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

- Adopt amended ordiance and/or regulation to include site development LID and runoff requirements
- Continue maintenance of Town owned stormwater basins and treatment structures
- Track DCIA reduction

5.3 Post-Construction Stormwater Management reporting metrics

For details on this requirement, visit https://nemo.uconn.edu/ms4/tasks/post-construction.htm. Scroll down to the DCIA section.

Metrics	
Baseline (2012) Directly Connected Impervious Area (DCIA)	1339.63 acres*
DCIA disconnected (redevelopment plus retrofits)	Unknown / 1339.63 acres total
Retrofit projects completed	Unknown
DCIA disconnected	Unknown this year/Unknown total since 2012
Estimated cost of retrofits	Unknown
Detention or retention ponds identified	0 this year /33 total

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

The Town has calculated the baseline (2012) DCIA for each basin contributing stormwater runoff to its MS4 outfalls. The DCIA calculations were made according to guidance by the UCONN Center for Land Use, Education, and Research using the Sutherland Equations to estimate DCIA based on Total IC and land use for each basin.

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

6.1 BMP Summary

BMP	**Status** (Complete, Ongoing, In Progress, or Not started)	**Activities in current reporting period**	**Measurable Goal**	**Department / Person Responsible**	**Date completed or projected completion date** (include the start date for anything that is 'in progress')	**Additional details**
6-1 Develop/implement formal employee training program (Ongoing)	Ongoing	Employees completed training on Stormwater Pollution Prevention and Spill Prevention Control	Continue to provide on the job training to existing and new staff; review and revise training procedures as necessary	Public Works/ Engineering	Ongoing	
6-2 Implement MS4 property and operations maintenance (Ongoing)	Ongoing	Municipally-owned or operated properties, parks, and other facilities are maintained so as to minimize the discharge of pollutants to the MS4.	Implement property and operations maintenance plan	Public Works	Ongoing	
6-3 Implement coordination with interconnected MS4s	Ongoing	None	Coordinate with interconnected MS4s	Engineering	Ongoing	Windsor will continue to coordinate with operators of interconnected MS4s (such as neighboring municipalities, institutions and DOT) regardging the contribution of potential pollutants
6-4 Develop/implement program to control other sources of pollutants to the MS4	Ongoing	Town reviews the list of stormwater general permit registrants, to identify non-permitted locations which may be potential contributors ans use this data to adjust screening prioritization in the IDDE Plan as warranted.	Control the contribution of pollutants to its MS4 from commercial, industrial, municipal, institutional or other facilities through its IDDE and water quality monitoring programs and	Engineering	Ongoing	Windsor DPW is registered under the General Permit for Industrial Activity and General Permit for Miscellaneous Industrial Users

			regulatory mechanisms			
6-5 Evaluate additional measures for discharges to impaired waters*	In Progress	The Town provides dog waste bags and receptacles at various parks	On municipally owned or operated lands with a high potential to contribute bacteria to Mill Brook and the CT River, Windsor will develop, implement, prioritize, and evaluate potential funding sources for a retrofit or source management program to correct the problems(s).	Engineering/ Wetlands	Ongoing	
6-6 Track projects that disconnect DCIA (Ongoing)	Not Started	None	Calculate/Track DCIA reductions	Planning		Track the total acreage of DCIA that is disconnected from the MS4 as a result of redevelopment or retrofit projects within the Town.
6-7 Implement infrastructure repair/rehab program (Due 7/1/21)	Ongoing	Continued repair and replacement repair of drainage infrastructure	Prioritize and document Infrastructure repair and rehabilitation work	Public Works	Ongoing	DPW reviews stormwater infrastructure repair/replacement needs annually to plan projects appropriately and as funded
6-8 Develop/implement plan to identify/prioritize retrofit projects (Due 7/1/20)	Not Started	None	Develop retrofit project plan	Engineering		Retrofit Plan to identify and prioritize potential DCIA disconnection projects. Prioritization will be based on several factors, including whether the project lies within a Priority Area.

6-9 Implement retrofit projects to disconnect 2% of DCIA (Due 7/1/22)	Not Started	None	Implement and document retrofit projects	Engineering	Ongoing	
6-10 Develop/implement street sweeping program (Ongoing)	Ongoing	Town wide street sweeping conducted every spring	Develop and implement street sweeping program	Public Works	Ongoing	
6-11 Develop/implement catch basin cleaning program (Ongoing)	Ongoing	Public Works utilizes a third-party vendor to clean approx. 1/3 of catch basins each year	Develop and implement street Catchbasin cleaning program	Public Works	Ongoing	Catch basin cleaning not performed in 2024. Unable to hire contractor.
6-12 Develop/implement snow management practices (Due 7/1/18)	Ongoing	Provide training for Municipal employees on winter roadway maintenance procedures	Develop/Implement snow management practices	Public Works		

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

- Continue annual employee MS4 and snow management training
- Continue to monitor and vehicles and equipment for leaks
- Continue leaf pick up, pavementsweeping and catch basin cleaning
- Develop/implement retrofit plan and track disconnections

6.3 Pollution Prevention/ Good Housekeeping reporting metrics

Metrics	
Employee training provided for key staff	N
Street sweeping	
Curb miles swept	
Volume (or mass) of material collected	
Catch basin cleaning	
Total catch basins in priority areas (value will be less than or equal to total catch basins town or institution-wide)	0
Total catch basins town- (or institution-) wide	0
Catch basins inspected	0
Catch basins cleaned	0
Volume (or mass) of material removed from all catch basins	0
Volume removed from catch basins to impaired waters (if known)	Unknown
Snow management	
Type(s) of deicing material used	Salt
Total amount of each deicing material applied	90 tons
Type(s) of deicing equipment used	
Lane-miles treated (A lane-mile is a mile of roadway in a single driving lane)	350 miles
Snow disposal location	
Staff training provided on application methods & equipment	
Municipal turf management program actions (for permittee properties in basins with N/P impairments)	
Reduction in application of fertilizers (since start of permit)	N/A
Reduction in turf area (since start of permit)	N/A
Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems)	
Cost of mitigation actions/retrofits	$

6.4 Catch basin cleaning program

Provide any updates or modifications to your catch basin cleaning program.
Windsor has developed a cleaning schedule that covers all municipally-owned catch basins every 3 years. Inspections will be documented through the use of a catch basin inspection form. Prioritize inspection and maintenance for municipally-owned catch basins located near impaired waters and construction activities (roadway construction, residential, commercial, or industrial development or redevelopment). Windsor will clean catch basins in such areas more frequently if inspection and maintenance activities indicate excessive sediment or debris loadings. If a catch basin sump is more than fifty (50) percent full during two consecutive routine inspections/cleaning events, Windsor will document that finding, investigate the contributing drainage for sources of excessive sediment loading, and to the maximum extent practicable, abate contributing sources.

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. (Due 7/1/20)
Windsor will develop a Retrofit Plan to identify and prioritize potential DCIA disconnection projects. Prioritization will be based on several factors, including whether the project lies within a Priority Area. The Plan will include a process to identify and prioritize retrofit projects, a rationale for the selection of projects to be implemented, and the total acres of DCIA to be disconnected upon implementation

Describe plans for continuing the Retrofit program and how to achieve a goal of 1% DCIA disconnection annually in future years. (Due 7/1/22)
Written retrofit program in process

Part II: Impaired waters investigation and monitoring

1. Impaired waters investigation and monitoring program

For details on this requirement, visit https://nemo.uconn.edu/ms4/tasks/monitoring.htm. Refer to the yellow column of the Monitoring comparison chart and the Impaired waters monitoring flowchart.

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

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.
Wet Weather Sampling six (6) worst outfalls, based on previous testing. The selected outfalls are representative of the six worst outfalls, evenly distributed across the two impaired waterways within the Town's boundary. Results of the testing provided below.

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

2.1 Screening data

Complete the table below to report data for any wet weather sampling completed for MS4 outfalls that discharge directly to a stormwater impaired waterbody during the reporting period. For details on this requirement, visit www.nemo.uconn.edu/ms4/tasks/monitoring.htm. Refer to the yellow column of the Monitoring comparison chart and the Impaired waters monitoring flowchart.

Each Annual Report will add on to the previous year's data showing a cumulative list of sampling data. **You may also attach an excel spreadsheet with the same data rather than copying it into this table**. If you do attach a spreadsheet, please write "See Attachment" below.

Outfall ID	**Latitude / Longitude**	**Sample date**	**Parameter** (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	**Results**	**Name of Laboratory (if used)**	**Follow-up required? ***
164-HE-0250		04/15/2021	Bacteria	20	Phoenix Environmental	N
164-HE-0202		04/15/2021	Bacteria	<20	Phoenix Environmental	N
164-HE-0237		04/15/2021	Bacteria	<20	Phoenix Environmental	N
164-HE-0318		04/15/2021	Bacteria	<20	Phoenix Environmental	N
164-HE-0267		04/15/2021	Bacteria	<20	Phoenix Environmental	N
164-HE-0152		04/15/2021	Bacteria	11600	Phoenix Environmental	YES

164-HE-0229		04/15/2021	Bacteria	<20	*Phoenix Environmental*	N
164-HE-0507		04/15/2021	Bacteria	452	*Phoenix Environmental*	YES
164-HE-0505		04/15/2021	Bacteria	150	*Phoenix Environmental*	N
164-HE-0558		04/15/2021	Bacteria	20	*Phoenix Environmental*	N
164-HE-0519		04/15/2021	Bacteria	1870	*Phoenix Environmental*	YES
164-HE-0520		04/15/2021	Bacteria	<20	*Phoenix Environmental*	N
164-HE-0475		07/24/2021	Bacteria	1580	*Phoenix Environmental*	YES
164-HE-0478		08/19/2021	Bacteria	2830	*Phoenix Environmental*	YES
164-HE-0555		08/19/2021	Bacteria	900	*Phoenix Environmental*	YES
164-HE-0554		08/19/2021	Bacteria	9770	*Phoenix Environmental*	YES
164-HE-0508		08/19/2021	Bacteria	28300	*Phoenix Environmental*	YES
164-HE-0510		09/01/2021	Bacteria	1590	*Phoenix Environmental*	YES
164-HE-0203		09/01/2021	Bacteria	220	*Phoenix Environmental*	YES
164-HE-0222		09/01/2021	Bacteria	870	*Phoenix Environmental*	YES
164-HE-0172		09/01/2021	Bacteria	>48400	*Phoenix Environmental*	YES
164-HE-0146		09/01/2021	Bacteria	1820	*Phoenix Environmental*	YES
164-HE-0173		09/01/2021	Bacteria	6900	*Phoenix Environmental*	YES
164-HE-0246		09/01/2021	Bacteria	2930	*Phoenix Environmental*	YES
164-HE-0169		09/01/2021	Bacteria	24100	*Phoenix Environmental*	YES
164-HE-0184		09/01/2021	Bacteria	13700	*Phoenix Environmental*	YES
164-HE-508		8/7/2023	Bacteria	15,500	Phoenix Laboratories	Yes
164-HE-173		8/7/2023	Bacteria	2280	Phoenix Laboratories	Yes
164-HE-554		8/7/2023	Bacteria	471	Phoenix Laboratories	Yes
164-HE-172		8/7/2023	Bacteria	*97	Phoenix Laboratories	Yes
164-HE-519		8/7/2023	Bacteria	9210	Phoenix Laboratories	Yes
164-HE-152		8/7/2023	Bacteria	637	Phoenix Laboratories	Yes
164-HE-508		3/28/2024	Bacteria	>24,200	Phoenix Laboratories	Yes
164-HE-173		3/28/2024	Bacteria	*41	Phoenix Laboratories	Yes
164-HE-554		3/28/2024	Bacteria	683	Phoenix Laboratories	Yes
164-HE-172		3/28/2024	Bacteria	*41	Phoenix Laboratories	Yes
164-HE-519		3/28/2024	Bacteria	2350	Phoenix Laboratories	Yes
164-HE-152		3/28/2024	Bacteria	1150	Phoenix Laboratories	Yes
164-HE-169		3/28/2024	Bacteria	2490	Phoenix Laboratories	Yes
164-HE-184		3/28/2024	Bacteria	1170	Phoenix Laboratories	Yes
*Total Coliforms (MPN/100mils) exceeded allowable limit of 500						

Follow-up investigation required (last column) if the following pollutant thresholds are exceeded:

Pollutant of concern	**Pollutant threshold**
Nitrogen	Total N > 2.5 mg/l
Phosphorus	Total P > 0.3 mg/l
Bacteria (fresh waterbody)	• E. coli > 235 col/100ml for swimming areas or 410 col/100ml for all others • Total Coliform > 500 col/100ml
Bacteria (salt waterbody)	• Fecal Coliform > 31 col/100ml for Class SA and > 260 col/100ml for Class SB • Enterococci > 104 col/100ml for swimming areas or 500 col/100 for all others
Other pollutants of concern	Sample turbidity is 5 NTU > in-stream sample

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

Provide the following information for outfalls exceeding the pollutant threshold.

Outfall ID	Status of drainage area investigation	Control measure to address impairment

4. Prioritized outfall monitoring (Section 6(i)(1)(D) / page 43)

Once outfall sampling has been completed for at least 50% of outfalls to impaired waters, identify 6 of the highest contributors of any pollutants of concern. Begin monitoring these outfalls on an annual basis by July 1, 2021. **You may also attach an excel spreadsheet with the same data rather than copying it to this table.** If you do attach a spreadsheet, please write "See Attachment" below.

Outfall	Latitude / Longitude	Sample Date	Parameter(s)	Results	Name of Laboratory (if used)

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).

See Attachment A for Priority Ranking of DEEP basin in Progress

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

This screening is the baseline IDDE dry weather screening. For details on this requirement, visit https://nemo.uconn.edu/ms4/tasks/monitoring.htm. Refer to the blue column of the Monitoring comparison chart and the IDDE baseline monitoring flowchart.

Provide sample data for outfalls where flow is observed, during dry weather, of outfalls and interconnections categorized as high or low priority in priority areas. Do not include problem or excluded catchments. Only include Pollutant of concern data for outfalls that discharge into stormwater impaired waterbodies. **You may also attach an excel spreadsheet with the same data rather than copying it to this table.** If you do attach a spreadsheet, please write "See Attachment" below.

Outfall / Interconnection ID	Latitude / Longitude	Screening / sample date	Ammonia	Chlorine	Conductivity	Salinity	E. coli or enterococcus	Surfactants	Water Temp	Pollutant of concern	If required, follow-up actions taken

2.2 Wet weather sample and inspection data

This sampling data is the baseline wet weather priority catchment investigation sampling. For details on this requirement, visit https://nemo.uconn.edu/ms4/tasks/monitoring.htm. Refer to the green column of the Monitoring comparison chart and the IDDE catchment investigation flowchart.

Provide baseline sample data for outfalls and key junction manholes of any catchment area (all high priority, low priority, and problem outfalls within the priority area) with at least one System Vulnerability Factor. **You may also attach an excel spreadsheet with the same data rather than copying it to this table.** If you do attach a spreadsheet, please write "See Attachment" below.

Outfall / Interconnection ID	Latitude / Longitude	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)

For details on this requirement, visit www.nemo.uconn.edu/ms4/tasks/monitoring.htm. Refer to the green column of the Monitoring comparison chart and the IDDE catchment investigation flowchart.

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

Where SVFs are:

1. History of SSOs, including, but not limited to, those resulting from wet weather, high water table, or fat/oil/grease blockages.
2. Sewer pump/lift stations, siphons, or known sanitary sewer restrictions where power/equipment failures or blockages could readily result in SSOs.

3. Inadequate sanitary sewer level of service (LOS) resulting in regular surcharging, customer back-ups, or frequent customer complaints.
4. Common or twin-invert manholes serving storm and sanitary sewer alignments.
5. Common trench construction serving both storm and sanitary sewer alignments.
6. Crossings of storm and sanitary sewer alignments.
7. Sanitary sewer alignments known or suspected to have been constructed with an underdrain system;
8. Sanitary sewer infrastructure defects such as leaking service laterals, cracked, broken, or offset sanitary infrastructure, directly piped connections between storm drain and sanitary sewer infrastructure, or other vulnerability factors identified through Inflow/Infiltration Analyses, Sanitary Sewer Evaluation Surveys, or other infrastructure investigations.
9. Areas formerly served by combined sewer systems.
10. Any sanitary sewer and storm drain infrastructure greater than 40 years old in medium and densely developed areas.
11. Widespread code-required septic system upgrades required at property transfers (indicative of inadequate soils, water table separation, or other physical constraints of the area rather that poor owner maintenance).
12. History of multiple local health department or sanitarian actions addressing widespread septic system failures (indicative of inadequate soils, water table separation, or other physical constraints of the area rather that poor owner maintenance).

3.2 Key junction manhole dry weather screening and sampling data

This screening is the dry weather priority catchment investigation screening. Provide sample data, both baseline and follow-up, for key junction manholes of any catchment area begin investigated for an illicit discharge and do not have any SVFs present. Follow-up investigations must take place within one year and again within five years. **You may also attach an excel spreadsheet with the same data rather than copying it to this table**. If you do attach a spreadsheet, please write "See Attachment" below.

Key Junction Manhole ID	Latitude / Longitude	Screening / Sample date	Visual/ olfactory evidence of illicit discharge	Ammonia	Chlorine	Surfactants

3.3 Wet weather follow-up investigation outfall sampling data

This sampling is the follow-up investigations for the wet weather priority catchment investigation. Provide follow-up sample data for outfalls and key junction manholes of any catchment area with at least one System Vulnerability Factor. Follow-up investigations must take place within one year and again within five years. **You may also attach an excel spreadsheet with the same data rather than copying it to this table.** If you do attach a spreadsheet, please write "See Attachment" below.

Outfall ID	Latitude / Longitude	Sample date	Ammonia	Chlorine	Surfactants

3.4 Data for each illicit discharge source confirmed through the catchment investigation procedure

Discharge location	Source location	Discharge description	Method of discovery	Date of discovery	Date of elimination	Mitigation or enforcement action	Estimated volume of flow removed

Part IV: Certification

"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."	
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