# MS4 General Permit Town of Canton 2022 Annual Report Permit Number GSM 000091

January 1, 2022 – December 31, 2022

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This report documents Canton's efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 1, 2022 to December 31, 2022.

#### Part I: Summary of Minimum Control Measure Activities

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

#### 1.1 BMP Summary

ВМР	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	1.Virtual Film Festival  2.RBV Training  3.5 <sup>th</sup> Annual WSFF	1.Online 2.84 Cherry Brook Road 3. Collinsville Town Auditorium	Farmington River Watershed Association (FRWA)	~500	Provide access to stormwater literature.	FRWA	
1-2 Address education/ outreach for pollutants of concern	1. The impact of impervious cover, septic systems, and fertilizer use was discussed in a brochure and distributed at the Canton Town Hall.  2. Earth Day Celebration	1. Distribution of hardcopies  2. Not Applicable	<ul><li>1.Brochures</li><li>2. Planting of elm tree.</li></ul>	1.~25 1.10	Educate and provide pet waste and other waste management to the public.	Director of Public Works, Land Use, Farmington River Watershed Association	Refer to Attachment IV for a summary provided by the Farmington River Watershed Association of public education and

							outreach conducted in the Town.
Additional	In partnership with	Multiple websites. See	Announcements through	≥500	Educate and provide	Director of Public	
ВМР:	Farmington, Granby,	"Additional Details".	CTDEEP, Facebook, and		hazardous waste	Works.	
1-3	and Simsbury.		Town website.		collections		
Hazardous	Collection days are						
Waste	provided per year.						
Collection							

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

- 1. Continue with Hazardous Waste collection days with the neighboring towns.
- 2. All of the above-mentioned activities (1-1, 1-2) are planned for 2023, with specific dates to be determined.

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

#### 2.1 BMP Summary

ВМР	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	Completed	Not Applicable.	Provide public notice and access to the Town's Stormwater Management Plan.	Town Engineer/Town Planner	April 1, 2017	<u>Stormwater</u> <u>Management</u> <u>Plant</u>	
2-2 Comply with public notice requirements for Annual Reports (annually by 2/15)	Completed Annually	Public notice posted on Town Website.	Provide public notice and access to the MS4 Annual Report.	Town Engineer	Feb. 15, 2023	Annual Reports	Previous Annual Reports were submitted by February 15 <sup>th</sup> .
Additional BMP: 2-3 Hazardous Waste Collection	Ongoing	In partnership with Farmington, Granby, and Simsbury. Collection days are provided per year.	Educate and provide hazardous waste collections	Department of Public Works.	Annually	Press Release  DEEP	
Additional BMP: 2-4 Establish Stormwater Committee.	Ongoing throughout permit lifetime.	This committee meets frequently with Atlas (consultant) over stormwater management techniques, implementation, and BMPs.	Coordinate and implement the Stormwater Management Plan across departments and commissions.	Department of Public Works/Land Use Departments	Established June 2017-Ongoing.	Not Applicable	
Additional BMP: 2-5 General Public Involvement	Ongoing throughout permit lifetime.	River Cleanup	Clean-up Connecticut Rivers	FRWA	2022	Multiple locations	

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

- 1. Annual Spring Clean-up Event
- 2. Earth Day Celebration
- 3. Brochures to be distributed on the Stormwater Retrofit Program.

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

#### 3.1 BMP Summary

ВМР	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	Not Applicable	Develop written plan of IDDE program	Chief Administrative Officer/Town Engineer/ Town Planner	October 24 <sup>th</sup> , 2018	The Town completed a written IDDE Program, which can be located through the Town's website.
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas (Due 7/1/20)	Complete	Atlas has completed mapping of all outfalls and priority area mapping. The Town, with the assistance of Atlas, will continue QA/QC processes of reviewing GIS systems and editing as necessary.	All outfalls mapped.	Town Engineer/Atlas	Fall 2021	Mapping and data will be continually maintained as outfalls are tested, repaired, etc.
3-3 Implement citizen reporting program (Ongoing)	Complete	Citizen Reporting is maintained electronically by the Canton Town Planner.	Provide a reporting mechanism and log.	Chief Administrative Office, Town Engineer, Town Planner	Ongoing-started in Nov. 2018.	Citizens may report illicit discharges by contacting the Land Use Department or reporting dry weather discharges via the Q-Notify System.
3-4 Establish legal authority to prohibit illicit discharges (Due 7/1/19)	Complete	The Town has written and adopted a Stormwater Connection Ordinance.	Establish legal authority to prohibit illicit discharges.	Chief Administrative Officer, Town Engineer, Town Planner.	October 24 <sup>th</sup> , 2018	Stormwater Ordinance Connection
3-5 Develop record keeping system for IDDE tracking (Due 7/1/17)	Ongoing	The Town continues to maintain a list of reports that include the IDDE.	Maintain list.	Chief Administrative Officer, Town Engineer, Town Planner	October 24 <sup>th</sup> , 2018	Maintaining of records of reported IDDEs is maintained by the Town Department of Public Works.
3-6 Address IDDE in areas with pollutants of concern	Ongoing	Dry Weather screening was conducted at 98 outfalls throughout the Town of Canton.	Wet weather testing and additional investigation as necessary.	Town Engineer, Atlas	Ongoing- Started in 2021	Atlas assists the Town with impaired outfall sampling and inspections. All outfalls to impaired waterbodies have been inspected and sampled. Dry weather

						screenings are underway throughout the entirety of the Town. IDDEs area documented and investigated as needed, if observed during dry weather screenings.
Additional BMPs: 3-7 Consolidate IDDE Tracking Spreadsheets	Ongoing	Continuously working towards developing a master IDDE tracking spreadsheet.	Compile all IDDE tracking requirements into one spreadsheet.	Town Engineer, Town Planner	Ongoing- Started in 2021	Tracking of reported IDDEs is maintained by the Town Department of Public Works

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

- 1. Continue wet weather testing at outfalls to impaired waters
- 2. Continue follow-up dry weather screening/testing
- 3. Respond to any illicit discharge complaints
- 4. 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 2021 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)
OF-105	4/13/2021	Yes	Unknown	TBD	Pending SSOs investigation. Sampling data was indicative of elevated concentrations of bacteria; however, it is unclear whether the bacteria concentrations are indicative of a septic failure or natural background conditions.	Refer to <b>Part II: Impaired Waters Investigation and Monitoring</b> of this report.
OF-107	4/13/2021	Yes	Unknown	None	Based on analytical results, this discharge is groundwater influence.	Refer to Part II: Impaired Waters Investigation and Monitoring of this report.
50 Bristol Drive	7/22/2021	Unnamed Brook	Unknown	Breakout of septic system	Evaluation by FVHD showed a breakout of the septic system. A replacement 1,250 gallon septic tank and 538 sq.ft leach field was installed and approved by FVHD in October 2021.	None.

				2022		
35 Trailsend Drive	4/8/2022	Unnamed Brook	Unknown	The septic tank was reported in poor condition.	The septic system was evaluated by the FVHD, and a permit for tank replacement was granted.  An engineering plan is shown for the installation of a new 1,000-gallon septic tank.	None.
9 Noja Trail	5/10/2022	Unnamed Brook	Unknown	Out-of-level and cracked at outlet side.	A 1,250-gallon septic tank was installed, and the existing tank was abandoned. Other corrective measures were listed as the installation of a 6-hole D-Box.	None.
21 Bristol Drive	5/8/2022	Unnamed Brook	Unknown	Not stated.	Installation of a new septic system, including sewer-piping, septic tank, and leaching area was completed for the real estate sale of the property. The original septic tank was reported as abandoned.	None.
24 Bristol Drive	6/10/2022	None.	Unknown	Not stated.	An application for a site evaluation of the septic system was requested in May 2022. The site was evaluated, and the evaluation found that the system could be repaired; however, system failures were not listed. Recommendations listed included the proper abandonment of the old septic tank and other hollow structures, installation of a new septic tank with an outlet baffle filter, and to provide a total of 495 square feet of leaching area.	None.
50 Bristol Drive	7/22/2022	None.	Unknown	Breakout	A site evaluation was completed due to septic breakout at this property (See 2021). Subsequently, a new septic tank was installed. The leaching system was found non-compliant relative to the MLSS requirements, however, an exception was granted, as it was unlikely to result in a health hazard.	None.

## 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
		2021 Septic Failures	'	
Farmington Valley Health District (FVHD)	14 Sweetheart Mountain-Septic tank in poor condition	New tank installed	Unknown	FVHD
	52 Country Lane-no failure	New tank & fields installed	None.	FVHD
	12B Freedom-Truck damaged septic tank	New tank installed	Unknown	FVHD
	32 E Mountain-Unknown nature	Site evaluation, and new tank installed	Unknown	FVHD

13 Sweetheart Mountain-Pool installation	New tank installed	None.	FVHD
17 Pond RdReal Estate Inspection	New tank & fields installed	Unknown	FVHD
19 Deer Run-House sale	New tank and fields installed	Unknown	FVHD
57 Sterling-Addition	New building sewer line installed	Unknown	FVHD
17 Mohawk-Deteriorated septic tank	New tank and d-box installed	Unknown	FVHD
50 Bunker Hill-"old"	Site evaluation completed no repair work.	Unknown	FVHD
23 Pine Acres-"leach field is full"	New tank and fields installed	Unknown	FVHD
144 Indian Hill-fields failing	New tank and fields installed	Unknown	FVHD
620 Albany-"tank needs replacement"	New tank installed	Unknown	FVHD
6 Erickson-septic tank in poor condition	New tank installed	Unknown	FVHD
111 Wright-tank collapse	New tank installed	Unknown	FVHD
51 Breezy Hill-Addition request	No action	Unknown	FVHD
8 Silver Mine Acres-septic tank in poor condition	New tank installed	Unknown	FVHD
17 Woodland-tank in poor condition	New tank and d-box installed	Unknown	FVHD
50 Bristol-"breakout"	PE required to design repair	Unknown	FVHD
82 Washburn-new barn	Building sewer pipe installed	None.	FVHD
25 Old Canton-failure	New tank and fields installed	Unknown	FVHD
70 Trailsend-failure	New tank and fields installed	Unknown	FVHD
11 Country-cracked tank	New tank installed	Unknown	FVHD
50 Cherry Brook-tank in poor condition	New tank installed	Unknown	FVHD
5 Uplands-tank in poor condition	New tank and d-box installed	Unknown	FVHD
7 Woodridge Circle-failed inspection	New tank and fields installed	Unknown	FVHD
6 West View-aged	New tank and fields installed	Unknown	FVHD
21 Birch Knoll-addition	New building sewer line installed	Unknown	FVHD
81 Morgan-failure	New fields installed	Unknown	FVHD
139 Indian Hill-tank in poor condition	New tank and d-box installed	Unknown	FVHD
10 Shagbark-septic tank in poor condition	New tank and d-box installed	Unknown	FVHD
308 East Hill-leach fields wet	Site evaluation complete-no repair work	Unknown	FVHD

	30 Morgan-septic breakout	Effluent pipe and fields installed	Unknown	FVHD
	5 Shagbark-system saturated	New tank and fields installed	Unknown	FVHD
	9 Erickson-leaching fields not working	New fields installed	Unknown	FVHD
	4 Noja-septic tank in poor condition	New tank installed	Unknown	FVHD
	115 Indian Hill-clog in grey water	Pipe replaced	Unknown	FVHD
	121 Indian Hill-needs new leach field	No action yet	Unknown	FVHD
	50 Dry Bridge-old	Site evaluation completed-no repair work	Unknown	FVHD
	41 Country-unknown	New tank installed	Unknown	FVHD
	760 Cherry Brook-addition	New tank installed.	Unknown	FVHD
		2022 Septic Failures		
Farmington Valley Health District (FVHD)	35 Trailsend Drive- The septic tank was reported in poor condition.	The septic system was evaluated by the FVHD, and a permit for tank replacement was granted. An engineering plan is shown for the installation of a new 1,000-gallon septic tank.	Unnamed brook and wetlands area nearby with potential for impact.	FVHD
Farmington Valley Health District (FVHD)	9 Noja Trail- Out-of-level and cracked at outlet side.	A 1,250-gallon septic tank was installed, and the existing tank was abandoned. Other corrective measures were listed as the installation of a 6-hole D-Box.	Unnamed brook and wetlands area susceptible to impact.	FVHD
Farmington Valley Health District (FVHD)	21 Bristol Drive- Not stated.	Installation of a new septic system, including sewer-piping, septic tank, and leaching area was completed for the real estate sale of the property. The original septic tank was reported as abandoned.	Potential impact to unnamed brook.	FVHD
Farmington Valley Health District (FVHD)	24 Bristol Drive-Not stated.	An application for a site evaluation of the septic system was requested in May 2022. The site was evaluated, and the evaluation found that the system could be repaired; however, system failures were not listed. Recommendations listed included the proper abandonment of the old septic tank and other hollow structures, installation of a new septic tank with an outlet baffle filter, and to provide a total of 495 square feet of leaching area.	None.	FVHD
Farmington Valley Health District (FVHD)	50 Bristol Drive-Breakout	A site evaluation was completed due to septic breakout at this property. Subsequently, a new septic tank was installed. The leaching system was found non-compliant relative to the MLSS requirements, however, an exception was granted, as it was unlikely to result in a health hazard.	None.	FVHD

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

Residents of the Town of Canton can report illicit discharges directly to the Land Use Department or through the Q-Notify System. Staff then perform investigations on the illicit discharges. Digital Records on the Town server are used for tracking illicit discharges. While illicit discharge reporting from the public has remained low, the current system in place is adequate to meet the requirements of the MS4 Permit. Illicit discharges relating to septic systems are reported/documented by the Farmington Valley Health District (FVHD).

#### 3.6 IDDE reporting metrics

Metrics	
Estimated or actual number of MS4 outfalls	225 (est.)
Estimated or actual number of interconnections	11 (est.)
Outfall mapping complete	95% (ongoing)
Interconnection mapping complete	90%
System-wide mapping complete (detailed MS4 infrastructure)	60%
Outfall assessment and priority ranking	100%
Dry weather screening of all High and Low priority outfalls complete	80%
Catchment investigations complete	90%
Estimated percentage of MS4 catchment area investigated	62%

# 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).

Best Management Practice is provided to all DPW staff for new procedures, as determined by the Stormwater Committee, utilizing the Stormwater Management Plan and information provided by NEMO to train Town employees. Town employees are also trained on an annual basis by Atlas Technical Consultants, reviewing the Stormwater Management Plan, illicit discharge identification, and other applicable information of the MS4 GP.

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

#### 4.1 BMP Summary

ВМР	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)	Completed	In early January 2022, the Town and Atlas met to discuss aspects of the MS4 Permit. The Town is continuing to research tools and options to enforce land use regulations or other legal authority of privately owned properties to meet the requirements of the MS4 Permit.  The ZEO maintains records of identifiable complaints, inspections, and notices of violations served, orders issued, or any other actions taken in relation to Section 7.13 of the Zoning Regulations.	Revise land- use regulations.	Town Planner, Zoning Enforcement Officer, Wetlands Agents	The updated Zoning Regulations were adopted on April 2nd, 2014. These regulations incorporated a detailed Stormwater Management Plan Requirement, (Section 7.13 of the Town's Zoning Regulations), to address all new developments or other disturbances to an existing development that disturbs ten thousand square feet or more of an area exposed to rainfall.  Enforcement under the Town's Zoning Regulation is as follows: "The ZEO is authorized to issue a stop work order, cease and desist order, cease and correct order, or any order to undertake specified actions if in his or her judgement the use of land, buildings and other structures, or the construction, reconstruction, enlargement, extension, moving or structural alteration of a building or other structure, are not being carried out in compliance with these regulations, or any permit or variance" (pp 230 of Canton Zoning Regulations, effective 2014, revised October 29, 2021) issued.	Zoning Regulations
4-2 Develop/Impleme nt plan for interdepartmental coordination in site plan review	Completed-Ongoing for permit lifetime.	A Stormwater Management Plan is to be included as part of site plans for all applicable developments. All site plans are submitted to a commission for review.	Develop/impl ement plan for interdepartm ental coordination in site plan	Town Engineer	Town municipal departments have coordinated since the beginning of the MS4 Permit in 2017. In 2019, the WPCF and DPW redeveloped their facilities in compliance with MS4 construction requirements, and retain stormwater drainage on-site.	Zoning Regulations:  In 2019, the WPCF and DPW redeveloped their facilities in compliance with

and approval		According to these	review and			MS4 construction
(Ongoing)		regulations, "Other	approval.			requirements and
		technical and minor				retain stormwater
		modifications may be				
		approved jointly by the				
		Zoning Enforcement				
		Officer, Building Official				
		and Fire Marshal, or with				
		the consultation of other				
		relevant Town Staff when				
		proposed changes are				
		limited todrainage;				
		grading; erosion and				
		sedimentation				
		controls"(Zoning				
		Regulations, effective				
		2014, revised October 29,				
	Commission of Ownering	2021).	(access accesses	Zanian	Completed in lune 2010. This present	
	Completed-Ongoing	The Town continues to	Issue review	Zoning	Completed in June 2018. This process	
	for permit lifetime.	utilize zoning regulations	comments,	Enforcement	is continued to present.	
		and processes as a way of	and review	Officer,		
4-3 Review site		reviewing site plans for	revised plans	Wetlands		
plans for		stormwater quality	for	Agents, Town		
stormwater		concerns.	compliance.	Engineer		
quality concerns		5 (5) (1				
(Ongoing)		This year, five (5) site				
		plans were reviewed by				
		the Town with applicable				
		stormwater quality				
		concerns.	-			
	Ongoing throughout	Active sites are monitored	Document	Zoning	Completed in 2018-Continued	
4-4 Conduct site	permit lifetime.	throughout the year by	Inspections	Enforcement	throughout permit lifetime.	
inspections		the Zoning Enforcement	and Actions	Officer,		
(Ongoing)		Officer and/or Wetlands		Wetlands		
		Agents.		Agents		
	Completed	The procedure of which	Provide an	Town Planner	Completed under previous permit.	Zoning Regulations
		allows for public comment	opportunity			
4-5 Implement		on site development is as	for public			
procedure to allow		follows; dependent on	comment/inv			
public comment		zoning area type or	olvement.			
on site		regulations, a public				
development		hearing may be posted				
(Ongoing)		through newspaper or by				
		public hearing signs.				
		During this public hearing,				

		comments or concerns may be voiced on site development.				
4-6 Implement procedure to notify developers about DEEP construction stormwater permit (Ongoing)	Completed	Compliance with the DEEP construction stormwater permit is required through the Town, and is a standard condition of local land use approval. The DEEP permitting requirements are supplied to applicants in a preempted application checklist.	Notify developers about DEEP permitting obligations.	Town Planner/Town Engineer	Completed-continued throughout permit lifetime.	

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

There are several sites with proposed improvements that will affect stormwater runoff in 2022. The Town will continue to utilize zoning regulations and inspections as a means to ensure BMPs are utilized by site developers.

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

#### 5.1 BMP Summary

ВМР	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)	Completed	All new site development or modification, or other disturbance to an existing development that disturbed 10,000 square feet or more of an area exposed to rainfall is required to maintain a Stormwater Management Plan.	Adopt BMPs for any activity, operation, or facility which may cause or contribute to the pollution or contamination of stormwater, the storm drain system, or waters of the U.S.	Town Planner	Completed	
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects (Due 7/1/22)	Ongoing	Adopted Zoning Regulations and current Subdivision Regulations incorporate provisions for narrow travel-way widths, alternative cul-de-sac configurations, permeable pavers, and utilizing ditches for stormwater conveyance. These regulations also allow for the permanent reduction of required parking.	Enforce regulations and guidelines of LID and runoff reductions.	Town Planner	In progress- Started in 2021 and to be adopted 2022- 2023.	
5-3 Identify retention and detention ponds in priority areas (Due 7/1/20)	Ongoing	The Town is currently working towards compiling a complete list of retention and detention basins, as well as dry wells. Atlas will then convert this data into a GIS stormwater mapping software.	Compile a list and complete mapping of Town-owned detention basins.	Town Engineer/Director of Public Works	In Progress- Started 2021	
5-4 Implement long- term maintenance plan for stormwater basins and treatment structures (Ongoing)	Ongoing	The Town is currently working with Atlas to develop and implement inspections of stormwater basins and treatment structures, and to perform maintenance as needed.	Annually inspect and maintain facilities.	Town Engineer/Director of Public Works	In progress- Started July 1 <sup>st</sup> , 2019.	

5-5 DCIA mapping (Due 7/1/20)	Completed	DCIA for the Town was calculated with the assistance of Nathan L. Jacobson & Associates. Atlas has mapped the DCIA areas.	Provide an understanding of the Town's overall DCIA as related to the MS4 system.	Town Engineer, Director of Public Works, Town Planner, Atlas	Completed in December 2021	
5-6 Address post- construction issues in areas with pollutants of concern	Ongoing through life of permit	It is planned to implement that in post- construction areas, if erosion or high accumulation of sedimentation are found during annual inspections conducted under the long-term post-construction maintenance plan, the Town will prioritize these areas for DCIA retrofit projects.	Address post- construction areas where erosion or high accumulation of sedimentation are found during annual inspections.	Town Engineer, Director of Public Works, Town Planner	Ongoing-Started in 2018	The Stormwater Retrofit Program was drafted in late 2021, and is continuously updated as information is gathered/retrofits are put in place. This Retrofit Program will help the Town address areas with pollutants of concern.

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

- 1. Develop process for annual inspections of Post-Construction Stormwater Management activities.
- 2. Develop and implement the monitoring, cleaning, and repairing of settling/silt basins, catch basins, outfalls, swales, etc.

#### **5.3 Post-Construction Stormwater Management reporting metrics**

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

Metrics						
Baseline (2021) Directly Connected Impervious Area (DCIA)	32.14					
DCIA disconnected (redevelopment plus retrofits)	TBD					
Retrofit projects completed	TBD					
DCIA disconnected	TBD					
Estimated cost of retrofits	TBD					
Detention or retention ponds identified	7 /~7 total (TBD)					

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

The DCIA Mapping was conducted in substantial accordance with the methodologies presented in the October 25, 2017 UConn CLEAR Webinar, entitled "CT MS4 Mapping Details, Clarifications and Tools", the October 19, 2018 UConn CLEAR Workshop entitled "CT MS4 Mapping Workshop", as well as information contained in the EPA reference entitled "Estimating Change in Impervious Area (IA) and Directly Connected Impervious Area (DCIA) for Massachusetts Small MS4 Permit utilizing Sutherland equations".

The DCIA computations were prepared utilizing Connecticut Environmental Conditions Online MS4 base mapping prepared by UConn CLEAR.

Impaired waters were determined from the report entitled "2018 Integrated Water Quality Report", dated August 01, 2019, prepared by the State of Connecticut Department of Energy and Environmental Protection.

The method to determine the 2012 baseline DCIA was to first compile the CT DEEP drainage basin characteristics in a Microsoft Excel spreadsheet. Information on the Connecticut Environmental Conditions Online MS4 Mapping was used to determine the impervious area breakdown as Buildings, Roads, and Other. For CT DEEP drainage basins that fell in two (2) or more municipalities, the advanced mapping tab of Connecticut Environmental Conditions Online was used to delineate and determine the applicable town CT DEEP basin area. It was assumed that the entire drainage basin characteristics were directly proportional to the applicable town CT DEEP drainage basin area.

In that ConnDOT has a MS4 Stormwater Program which applies to state owned roads and facilities of which the town has no control over, it was decided that the impervious state road area would be determined and deducted from the total impervious road area for each CT DEEP drainage basin, as the impervious road areas associated with state highways and facilities constitutes a considerable portion of the total town impervious road area.

The ConnDOT state highway, parking lot, and facility impervious road areas were then determined for each CT DEEP drainage basin. The ConnDOT state highway, parking lot, and facility impervious road areas were then deducted from the total town impervious road area to determine a town-owned impervious road area for each CT DEEP drainage basin. Subsequent to the above deduction, the total impervious area in acres and percentage was then recomputed for each CT DEEP drainage basin.

The DCIA formula for each of four development types was then utilized to compute the DCIA. The impervious area in acres was assigned to each of the four Sutherland equations, which were modified for the northeastern United States. The Sutherland equation to be utilized was determined using the following methodology:

For impervious percentage less than 6%:

100% of the impervious area was assigned to the slight connectivity Sutherland Equation where DCIA% = 0.01\*(IA%)2.0

For an impervious area between 6% and 12 %:

50% of the area was assigned to the partial connectivity Sutherland Equation where DCIA% = 0.04\*(IA%)1.7

50% was assigned to the average connectivity Sutherland Equation where DCIA% = 0.10\*(IA%)1.5

For an impervious area between 12% and 18 %:

50% of the area was assigned to the average connectivity Sutherland Equation where DCIA% = 0.10\*(IA%)1.5 and

50% was assigned to the high connectivity Sutherland Equation where DCIA% = 0.40\*(IA%)1.2

For an impervious area of greater than 18 %:

100% of the area was assigned to the high connectivity Sutherland Equation where DCIA% = 0.40\*(IA%)1.2

The DCIA for each CT DEEP drainage basin was then summed to determine the entire town DCIA. Subsequent to completion of 2012 Baseline DCIA computations, UConn CLEAR Mapping, available on Connecticut Environmental Conditions Online (CT ECO), was revised to separate road impervious area into State Road Impervious Area (Acres) and Town Road Impervious Area (Acres).

The original 2012 Baseline DCIA computations were revised utilizing the UConn CLEAR State Road Impervious Area (Acres) and Town Road Impervious Area (Acres).



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

#### **6.1 BMP Summary**

ВМР	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)	Completed Annually	Meetings and correspondence were held over the course of the year with Town employees pertaining to the MS4 permit. During these meetings/correspondence, discussions were had on stormwater management procedures, spill controls, etc.	Eliminate non- stormwater discharges into the storm sewers.	Director of Public Works, Town Planner, Town Engineer, Fire Marshall	Completed Annually.	In April of 2022, Atlas completed a training of on the SWPPP for the Town DPW, as well as the MS4 Permit.
6-2 Implement MS4 property and operations maintenance (Ongoing)	Ongoing through life of permit.	The Public Works maintains outdoor maintenance at the Town's parks, school grounds, and all other Town-owned land. The Highway Division manages roads, including maintenance, resurfacing, drainage repairs, signage, winter plowing, street sweeping, etc.	Eliminates/minimizes spills and/or pollutant releases to the environment and navigable waterways.	Director of Public Works	Ongoing- Started in 2018.	Several dog waste stations have been installed in parks, along trails, and public places throughout the Town. The Town maintenance staff regularly empties and maintains the pet waste cans. Signs related to pet waste and waterfowl have been erected in parks, playgrounds, and along trails.
6-3 Implement coordination with interconnected MS4s	Ongoing	Atlas has assisted the Town in coordinating between the CTDOT and neighboring municipalities on interconnected MS4s. Currently, 11 interconnections with the CTDOT have been identified and mapped.	Update GIS system with interconnected locations.	Town Engineer/Atlas	Ongoing	

6-4 Develop/implement program to control other sources of pollutants to the MS4	Ongoing	The Town utilizes annual training, a plan of action developed with Atlas, as well as BMPs in reducing other possible pollutants to the MS4.	Reducing other possible pollutants to the MS4.	Land Use Commission/Department of Public Works	Ongoing- Started in 2021	A plan of action for emergency spills has been created, and is as follows: the Town will immediately notify Atlas of a spill. Atlas will provide spill response and guidance, including but not limited to coordinating the elimination of any spill flow to navigable waterways, spill cleanup, reporting, etc.
6-5 Evaluate additional measures for discharges to impaired waters*	Ongoing through life of permit.	Wet weather sampling events have been conducted, and priority outfalls were identified throughout the Town. Dry weather inspections are continuing for the entirety of the Town. As catchments are investigated, the Town will coordinate with Atlas on future measures pertaining to the reduction of bacteria discharge to impaired waters.	Pending further investigations create a program or plan of action to reduce bacterial discharge to impaired waters.	Director of Public Works, Town Engineer, Farmington River Watershed Association	Ongoing	Based on wet-and-dry weather testing, the Town will implement additional measures including but not limited to a retrofit program or source management to correct the problem at municipally owned or operated facilities, as well as IDDEs, where applicable.
6-6 Track projects that disconnect DCIA (Ongoing)	Ongoing	A Stormwater Retrofit Program has been drafted, and will be utilized as a method of tracking future DCIA disconnects.	Track DCIA disconnects.	Director of Public Works, Town Engineer	Ongoing- Started in 2021	The Town will utilize the Impervious Cover Tracking Sheet created by NEMO. This will allow the Town to track Project information, new developments, redevelopment, retrofits, changes in impervious cover, and cumulative totals. A Draft Stormwater Retrofit Program is located in Appendix IV of the 2021 Annual Report.

6-7 Implement infrastructure repair/rehab program (Due 7/1/21)	Ongoing through life of permit.	The Town's method for identifying MS4 infrastructure in need of repair or rehab is as follows:  1. An annual inspection of basins; 2. Rehabilitation work on roadways associated with drainage and paving work; 3. Notification from Town residents, and followup basin inspections.	Reduce/eliminate causes or contributions of pollution or contamination of stormwater, the storm drain system, or waters of the U.S.	Director of Public Works	Ongoing- Started in 2021	The Town has pursued funding for storm drainage improvements that may need to be completed.
6-8 Develop/implement plan to identify/prioritize retrofit projects (Due 7/1/20)	Ongoing	A Stormwater Retrofit Program has been drafted. Prioritized areas and/or sites were identified based off DCIA calculations, impaired waterbodies, current stormwater infrastructure, and the MEP of the Town.	Develop retrofit projects.	Director of Public Works.	Ongoing- Started in 2021	
6-9 Implement retrofit projects to disconnect 2% of DCIA (Due 7/1/22)	Ongoing	As Retrofit Projects are identified, the Town will utilize the Impervious Cover Tracking Sheet to track and work towards disconnecting 2% of DCIA, or the MEP of the Town.	Track and reduce DCIA impacts.	Director of Public Works	Ongoing- Started in 2021	
6-10 Develop/implement street sweeping program (Ongoing)	Completed	All Town-owned parking lots and streets are annually swept.	Track swept lane miles and reduce pollutants to the MS4 system.	Director of Public Works.	Completed in 2017-Ongoing throughout permit lifetime.	
6-11 Develop/implement catch basin cleaning program (Ongoing)	Completed	The Town's basin cleaning program is as follows:  A yearly bid is put forth to contractors, providing a list of catch basins to be cleaned. A daily account of the total basins cleaned, as well as the weight of the material removed from the basins is required. All collected material is tested, and then disposed of at Canton Village Construction Company.	Track material usage, and update plan as needed.	Director of Public Works	Completed in 2017-ongoing throughout permit lifetime.	Approximately 25% of the Town's catch basins are cleaned annually.

	Completed	The Town maintains records of	Track material usage	Director of Public Works	Completed	The Town has ceased to
6-12		applications of sand, anti-icing,	and update plan as		Annually.	utilize road sand during
Develop/implement		or deicing chemicals utilized on	needed.			winter road applications.
snow management		an annual basis.				Roadway de-icing and
practices (Due 7/1/18)						anti-icing procedures are
practices (Due 7/1/18)						utilized to minimize
						discharge.

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

- 1. General outfall inspections are to be performed throughout the year, with support from Atlas.
- 2. Training to applicable employees will be completed.
- 3. Street sweeping and basin cleanings will continue in 2023.

#### 6.3 Pollution Prevention/ Good Housekeeping reporting metrics

Metrics	
Employee training provided for key staff	April 2022
Street sweeping	
Curb miles swept	144
Volume (or mass) of material collected	295 tons
Catch basin cleaning	
Total catch basins in priority areas (value will be less than or equal to total catch basins town or institution-wide)	714
Total catch basins town- (or institution-) wide	1,648
Catch basins inspected	550
Catch basins cleaned	200
Volume (or mass) of material removed from all catch basins	150 tons
Volume removed from catch basins to impaired waters (if known)	TBD
Snow management	
Type(s) of deicing material used	Cargill – Clear Lane
	Enhanced Deicer
Total amount of each deicing material applied	2011 tons
Type(s) of deicing equipment used	Truck Spreaders
Lane-miles treated (A lane-mile is a mile of roadway in a single driving lane)	144 miles
Snow disposal location	Mills Pond Park – Parking Area
Staff training provided on application methods & equipment	Yes / dates: December 2022
Municipal turf management program actions (for permittee properties in basins with N/P	impairments)

Reduction in application of fertilizers (since start of permit)	500 lbs.			
Reduction in turf area (since start of permit) 1 acre				
Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems)				
Cost of mitigation actions/retrofits	TBD			

#### 6.4 Catch basin cleaning program

#### Provide any updates or modifications to your catch basin cleaning program.

The Town of Canton has found that the current catch basin cleaning program to be more than adequate. Documentation of basins cleaned, amount of material removed and laboratory-testing parameters is well organized, and provides the Town with a clear focus on priority basins to be cleaned in the next yearly cleaning.

#### 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)

The Stormwater Retrofit Program was drafted by the Town and Atlas in 2021. The Program was designed to provide guidance on implementing LID, runoff reduction measures, or other means to disconnect or improve stormwater quality. To meet the 2% MEP disconnection goal, DCIA calculations, Urbanized areas, Impaired Waterbodies, and Catchment Rankings were utilized in identifying and prioritizing areas and/or projects to be selected for retrofits.

DCIA by Catchment was identified utilizing the following formulas:

#### **High Connectivity**

DCIA%=0.4\*(IA %)^1.2
Directly Connected Area= (DCIA)(IC Acres)

#### **Average Connectivity**

DCIA%=0.1\*(IA%)^1.5
Directly Connected Area= (DCIA)(IC Acres)

#### **Partial Connectivity**

DCIA%=0.04\*(IA%)^1.7
Directly Connected Area= (DCIA)(IC Acres)

#### Slight Connectivity

DCIA%=0.01\*(IA%)^2.0

Directly Connected Area= (DCIA)(IC Acres)

The Average Connectivity calculation was utilized in assessing the Town's DCIA connectivity, based on the majority of land use defined as agricultural and/or rural, minor residential communities, and minor-to-moderate commercial or industrialized areas. Based on the Average Connectivity calculations for each catchment, no catchments were identified with a connectivity of 11% or greater.

Catchments were then prioritized utilizing the total urbanized area per catchment. Atlas was provided with a shapefile of the 2010 Urbanized Areas for the Town from the 2010 Census or Urban Classifications, which was imported into ArcGIS for calculation purposes. Utilizing the Overlay-Intersect Tool, Atlas was able to extract the total Urbanized Area acreage per catchment, and then calculate the Urbanized area percentage per catchment utilizing the following formula:

Urbanized Area (Ac.)/Basin Total Acreage\*100

Based on these calculations, 25 catchments were identified with Urbanized Areas.

Four (4) catchments containing impaired waterbodies were identified for the Town.

Catchment Priority Rankings were conducted for all Sub-Basins in the Town. Multiple factors were taken into consideration when scoring each catchment, including but not limited to DCIA calculations, previous screening results, age of development/structures, density of generating sites, nearby sewer repairs, urbanized areas, and impaired waterbodies. 29 catchments were identified as Problem or High Priority.

Specific criteria was utilizing in defining priority areas for the implementation of non-municipal retrofit projects. The criteria utilized in defining priority areas of non-municipal retrofit projects included High or Problem catchment priority rankings, catchments containing an impaired waterbody, and catchments identified with an urbanized area. Utilizing ArcGIS, Atlas extracted catchments where two (2) or more of the aforementioned criteria were found. Community outreach or project redevelopment is encouraged in these defined catchments.

Municipal-owned retrofit projects were identified for several schools, and other municipal-owned sites such as the Fire Department, Town Hall, etc. These locations were selected based on location and plausibility of future disconnects. Refer to the Stormwater Retrofit Program for further information on these projects.

#### 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)

The Stormwater Retrofit Program is designed to comply with Section (6) (B) (ii) of the CTDEEP 2017-2022 MS4 Permit. The Town of Canton will work towards disconnecting existing DCIA. The initial focus of the Stormwater Retrofit Program will first be applied to Town-owned properties, parks, and other facilities, followed by a focus of non-municipal facilities, parks, communities, or other redevelopments. Progress towards the DCIA disconnects will be tracked and continuously updated, with a goal to disconnect one percent (1%) of DCIA or to the MEP each year following the fifth year of the MS4 permit.

#### Part II: Impaired waters investigation and monitoring

#### 1. Impaired waters investigation and monitoring program

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

<b>1.1 Indicate which stormwater pollutant(s) of concern occur(s) in your municipality or institution.</b> This data is available on the MS4 map viewer: <a href="http://s.uconn.edu/ctms4map">http://s.uconn.edu/ctms4map</a> .						
Nitrogen/ Phosphorus 🗌	Bacteria 🛚	Mercury 🗌	Other Pollutant of Concern			
1.2 Describe program status						
Discuss 1) the status of monitoring wo Stormwater Management Plan based		•	cults and any notable findings, and 3) any changes to the			
impaired waterbodies. Dry weather scr documented the condition of the outfa control of these outfalls and/or surrour	reening of 98 outfal lls, erosion control, nding areas were ro Verosion controls we	lls throughout the To material, subtype, a anked with the follow ere recommended fo	er inspections and wet weather sampling at outfalls to wn were completed in 2022. These screenings nd diameter of the outfalls. The condition and erosion ving descriptors; Excellent, Good, Fair, and Poor. Outfalls r repair or implementation of additional erosion controls.			
Further investigations into SSOs is nece	essary to make dete	erminations on wheth	o the following year, to be conducted again in the spring., ner the bacterial impairments are the results of IDDE or to the Stormwater Management Plan are not			
above criteria. Sample results were rep collected by the Farmington River Wate	oorted at levels high ershed Association twelve outfalls, five	ner than the previous at twelve outfalls. So e (5) were identified o	for E.coli. All samples collected indicated bacteria results year for E. Coli at all priority outfalls. Samples were also impling parameters varied, but included bacteria, as discharging to an impaired waterbody. The twelve lts.			

## 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, visitwww.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?
OF-206	41.865117/ -72.902721	6/14/2021	Bacteria	- E. coli <b>5,480</b> col/100ml - T Coliform <b>&gt;24,200</b> col/100ml	Phoenix Environmental Laboratories	Yes
OF-105	41.864327/ -72.911845	6/14/2021	Bacteria	-E.coli <b>2,280</b> col/100ml -T Coliform <b>&gt;24,200</b> col/100ml	Phoenix Environmental Laboratories	Yes
OF-103	41.864326/ -72.911968	6/14/2021	Bacteria	No discharge.	Phoenix Environmental Laboratories	Yes
OF-104	41.864327/ -72.911845	6/14/2021	Bacteria	-E.coli <b>15,500</b> col/100ml -T Coliform <b>&gt;24,200</b> col/100ml	Phoenix Environmental Laboratories	Yes
OF-108	41.856804/ -72.915978	6/14/2021	Bacteria	-E.coli <b>1,970</b> col/100ml -T Coliform <b>&gt;24,200</b> col/100ml	Phoenix Environmental Laboratories	Yes
OF-107	41.856826/ -72.915981	6/14/2021	Bacteria	-E.coli <b>2,060</b> col/100ml -T Coliform <b>&gt;24,200</b> col/100ml	Phoenix Environmental Laboratories	Yes
OF-109	41.855805/ -72.921108	6/14/2021	Bacteria	-E.coli <b>275</b> col/100ml -T Coliform > <b>24,200</b> col/100ml	Phoenix Environmental Laboratories	Yes
OF-110	41.856027/ -72.920136	6/14/2021	Bacteria	-E.coli <b>988</b> col/100ml -T Coliform <b>&gt;24,200</b> col/100ml	Phoenix Environmental Laboratories	Yes
OF-40	41.840474/ -72.924501	6/14/2021	Bacteria	-E.coli <b>24,110</b> col/100ml -T Coliform > <b>24,200</b> col/100ml	Phoenix Environmental Laboratories	Yes
OF-39	41.840631/ -72.924348	6/14/2021	Bacteria	-E.coli <b>933</b> col/100ml -T Coliform <b>&gt;24,200</b> col/100ml	Phoenix Environmental Laboratories	Yes
OF-104	41.864327/ -72.911845	9/1/2021	Bacteria	-E.coli <b>3,080</b> col/100ml -T Coliform > <b>24,200</b> col/100ml	Phoenix Environmental Laboratories	Yes
OF-206	41.865117/ -72.902721	9/1/2021	Bacteria	-E.coli <b>369</b> col/100ml -T Coliform <b>&gt;24,200</b> col/100ml	Phoenix Environmental Laboratories	Yes
OF-40	41.840474/ -72.924501	9/1/2021	Bacteria	-E.coli <b>120</b> col/100ml -T Coliform <b>&gt;24,200</b> col/100ml	Phoenix Environmental Laboratories	Yes
OF-105	41.864327/ -72.911845	9/1/2021	Bacteria	-E.coli <b>602</b> col/100ml -T Coliform <b>&gt;24,200</b> col/100ml	Phoenix Environmental Laboratories	Yes
OF-107	41.856826/ -72.915981	9/1/2021	Bacteria	-E.coli <b>556</b> col/100ml -T Coliform <b>&gt;24,200</b> col/100ml	Phoenix Environmental Laboratories	Yes
OF-108	41.856804/ -72.915978	9/1/2021	Bacteria	-E.coli <b>905</b> col/100ml -T Coliform <b>&gt;24,200</b> col/100ml	Phoenix Environmental Laboratories	Yes
				2022		1
OF-40	41.840474/ -72.924501	8/26/2022	Bacteria	-E. Coli <b>5,170</b> MPN/100 mls -T Coliform <b>&gt;24,200</b> MPN/100mls	Phoenix Environmental Laboratories	Yes

OF-104	41.864327/ -72.911845	8/26/2022	Bacteria	-E.coli <b>15,500</b> MPN/100 mls -T Coliform > <b>24,200</b> MPN/100mls	Phoenix Environmental Laboratories	Yes
OF-105	41.864327/ -72.911845	8/26/2022	Bacteria	-E. Coli <b>3,450</b> MPN/100 mls -T Coliform <b>&gt;24,200</b> MPN/100mls	Phoenix Environmental Laboratories	Yes
OF-107	41.856826/ -72.915981	9/22/2022	Bacteria	-E. Coli <b>10,500</b> MPN/100 mls -T Coliform <b>&gt;24,200</b> MPN/100mls  Phoenix Environmenta Laboratories		Yes
OF-108	41.856804/ -72.915978	9/22/2022	Bacteria	-E. Coli <b>7,270</b> MPN/100 mls -T Coliform <b>&gt;24,200</b> MPN/100mls	Phoenix Environmental Laboratories	Yes
OF-206	41.865117/ -72.902721	8/26/2022	Bacteria	-E. Coli > <b>24,200</b> MPN/100mls -T Coliform > <b>24,200</b> MPN/100mls	Phoenix Environmental Laboratories	Yes
		6/6/2022	Bacteria	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		6/20/2022	Bacteria	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		6/21/2022	Bacteria, Nutrients	Refer to <b>Attachment IV</b> for analytical data.	Unknown	No
	41.85866/ -72.91343	6/22/2022	Nutrients	Refer to <b>Attachment IV</b> for analytical data.	Unknown	No
CB- 2330		7/11/2022	Bacteria	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		7/19/2022	Bacteria	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		7/25/2022	Bacteria	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		8/8/2022	Bacteria	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		8/22/2022	Bacteria, Nutrients	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		9/7/2022	Bacteria	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		6/6/2022	Bacteria	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		6/20/2022	Bacteria	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		6/21/2022	Nutrients	Refer to <b>Attachment IV</b> for analytical data.	Unknown	No
		6/22/2022	Nutrients	Refer to <b>Attachment IV</b> for analytical data.	Unknown	No
CB-28	41.836164/ -72.929891	7/1/2022	Bacteria	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		7/25/2022	Bacteria	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		8/8/2022	Bacteria	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		8/22/2022	Bacteria, Nutrients	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		9/7/2022	Bacteria	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
CB- 1200	41.84525/ -72.92519	6/6/2022	Bacteria	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes

		6/21/2022	Bacteria, Nutrients	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		7/11/2022	Bacteria	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		7/25/2022	Bacteria	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		8/8/2022	Bacteria	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		8/22/2022	Bacteria, Nutrients	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		9/7/2022	Bacteria	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		5/27/2022	Chlorine	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		6/6/2022	Bacteria	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		6/20/2022	Bacteria, Nutrients	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		6/22/2022	Chlorine	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
	41.85866/ -72.91343	7/11/2022	Bacteria	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
СВ-		7/19/2022	Chlorine	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
3220		7/25/2022	Bacteria	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		8/8/2022	Bacteria	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		8/16/2022	Chlorine	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		8/22/2022	Bacteria, Nutrients	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		9/7/2022	Bacteria	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		11/1/2022	Chlorine	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		6/6/2022	Bacteria	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		6/20/2022	Bacteria, Nutrients	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		7/11/2022	Bacteria	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
CB- 4140	41.86497/ -72.90848	7/25/2022	Bacteria	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		8/8/2022	Bacteria	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		8/22/2022	Bacteria, Nutrients	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes
		9/7/2022	Bacteria	Refer to <b>Attachment IV</b> for analytical data.	Unknown	Yes

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)	<ul> <li>E. coli &gt; 235 col/100ml for swimming areas or 410 col/100ml for all others</li> <li>Total Coliform &gt; 500 col/100ml</li> </ul>
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
All above	Investigations are being conducted on the	Potential measures that may be used in addressing bacterial
listed	surrounding drainage area, with a focus on	impairments include aquatic vegetative buffer and control runoff
outfalls	surrounding runoff from agricultural land,	measures implemented. Discussions are underway within the Town on
	septic repairs and failures, as well as SVFs.	how to address potential septic failures or repairs at privately owned
		properties.

# 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)
OF-104	41.864327/-72.911845	6/14/2021	Bacteria	-E.coli <b>15,500</b> col/100ml	Phoenix Environmental
				-T Coliform <b>&gt;24,200</b> col/100ml	Laboratories
OF-206	41.865117/-72.902721	6/14/2021	Bacteria	- E. coli <b>5,480</b> col/100ml	Phoenix Environmental
				- T Coliform >24,200 col/100ml	Laboratories
OF-40	41.840474/-72.924501	6/14/2021	Bacteria	-E.coli <b>24,110</b> col/100ml	Phoenix Environmental
				-T Coliform > <b>24,200</b> col/100ml	Laboratories
OF-105	41.864327/-72.911845	6/14/2021	Bacteria	-E.coli <b>2,280</b> col/100ml	Phoenix Environmental
				-T Coliform > <b>24,200</b> col/100ml	Laboratories
OF-107	41.856826/-72.915981	6/14/2021	Bacteria	-E.coli <b>2,060</b> col/100ml	Phoenix Environmental
				-T Coliform <b>&gt;24,200</b> col/100ml	Laboratories
OF-108	41.856804/-72.915978	6/14/2021	Bacteria	-E.coli <b>1,970</b> col/100ml	Phoenix Environmental
				-T Coliform <b>&gt;24,200</b> col/100ml	Laboratories
OF-104	41.864327/-72.911845	9/1/2021	Bacteria	-E.coli <b>3,080</b> col/100ml	Phoenix Environmental
				-T Coliform <b>&gt;24,200</b> col/100ml	Laboratories
OF-206	41.865117/-72.902721	9/1/2021	Bacteria	-E.coli <b>369</b> col/100ml	Phoenix Environmental
				-T Coliform <b>&gt;24,200</b> col/100ml	Laboratories
OF-40	41.840474/-72.924501	9/1/2021	Bacteria	-E.coli <b>120</b> col/100ml	Phoenix Environmental
				-T Coliform <b>&gt;24,200</b> col/100ml	Laboratories
OF-105	41.864327/-72.911845	9/1/2021	Bacteria	-E.coli <b>602</b> col/100ml	Phoenix Environmental
				-T Coliform <b>&gt;24,200</b> col/100ml	Laboratories
OF-107	41.856826/-72.915981	9/1/2021	Bacteria	-E.coli <b>556</b> col/100ml	Phoenix Environmental
				-T Coliform <b>&gt;24,200</b> col/100ml	Laboratories
OF-108	41.856804/-72.915978	9/1/2021	Bacteria	-E.coli <b>905</b> col/100ml	Phoenix Environmental
				-T Coliform <b>&gt;24,200</b> col/100ml	Laboratories
			202	2	
OF-40	41.840474/-72.924501	8/26/2022	Bacteria	-E. Coli <b>5,170</b> MPN/100 mls	Phoenix Environmental
				-T Coliform <b>&gt;24,200</b> MPN/100mls	Laboratories
OF-104	41.864327/-72.911845	8/26/2022	Bacteria	-E.coli <b>15,500</b> MPN/100 mls	Phoenix Environmental
				-T Coliform <b>&gt;24,200</b> MPN/100mls	Laboratories

OF-105	41.864327/-72.911845	8/26/2022	Bacteria	-E. Coli <b>3,450</b> MPN/100 mls	Phoenix Environmental
				-T Coliform > <b>24,200</b> MPN/100mls	Laboratories
OF-107	41.856826/-72.915981	9/22/2022	Bacteria	-E. Coli <b>10,500</b> MPN/100 mls	Phoenix Environmental
				-T Coliform >24,200 MPN/100mls	Laboratories
OF-108	41.856804/-72.915978	9/22/2022	Bacteria	-E. Coli <b>7,270</b> MPN/100 mls	Phoenix Environmental
				-T Coliform > <b>24,200</b> MPN/100mls	Laboratories
OF-206	41.865117/-72.902721	8/26/2022	Bacteria	-E. Coli > <b>24,200</b> MPN/100mls	Phoenix Environmental
				-T Coliform > <b>24,200</b> MPN/100mls	Laboratories



#### 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
4309-00-1	Low Priority	4
4319-11-1	Low Priority	4
4309-01-1	Problem	7
4309-02-1	Problem	8
4309-00-2-R1	Low Priority	5
4309-00-2-R2	Problem	6
4308-19-2-R1	Low Priority	2
4308-18-1	Low Priority	5
4309-03-1	Problem	6
4318-00-1	Low Priority	4
4308-18-2-R1	Low Priority	1
4309-05-1	Problem	6
4318-04-1-L1	Problem	9
4309-04-1	High Priority	11
4300-14-1	Problem	7
4309-00-2-R4	High Priority	14
4318-04-1	Low Priority	1
4308-00-2-R1	Exempt	0
4309-00-2-R3	Low Priority	4
4300-00-4+R6	Low Priority	2
4317-00-1	Problem	6
4300-15-1	High Priority	12
4312-01-1	High Priority	10
4300-00-4+R7	Exempt	0
4309-00-2-R5	High Priority	16
4300-16-1	Problem	8
4300-00-4+R8	Low Priority	5
4312-00-1	Problem	11
4300-00-4+R9	Problem	7
4300-00-4+R10	High Priority	10
4300-18-1-L1	High Priority	14
4310-00-3-L2	Problem	9
4310-00-3-R5	Low Priority	4
4312-00-2-L2	High Priority	14
4300-17-1	High Priority	11

High Priority	14
High Priority	10
Problem	7
Problem	7
High Priority	12
High Priority	11
Problem	8
	High Priority Problem Problem High Priority High Priority

# 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

For details on this requirement, visit <a href="https://nemo.uconn.edu/ms4/tasks/monitoring.htm">https://nemo.uconn.edu/ms4/tasks/monitoring.htm</a>. 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. 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
					'	2021	'				<u>'</u>
OF-105	41.864327/ -72.911845	4/13/2021	<0.05 mg/L	<0.02 mg/L	54 umhos/cm	<0.5 ppt	E. coli- <b>845</b> col/100ml	0.06 mg/L	-	Bacteria	Results of this flow during dry weather indicated a potential bacterial impact; however, further investigation is needed to confirm whether the bacterial impact is naturally occurring.
OF-107	41.856826/ -72.915981	4/13/2021	<0.05 mg/L	<0.02 mg/L	203 umhos/cm	<0.5 ppt	E. coli- 10 col/100ml	<0.06mg/L	-	Bacteria	Results of this dry weather flow are indicative of groundwater influence, and not an Illicit Discharge.
						2022					
OF-26	41.820792/ -72.889877	6/20/2022	<0.05 mg/L	<0.02 mg/L	378 umhos/cm	<0.5 ppt	<10 MPN/100mls	<0.05 mg/L	-	Bacteria	Results of this dry weather flow are indicative of groundwater influence, and not an Illicit Discharge.
OF-192	41.85974/ -72.890135	6/20/2022	<0.05 mg/L	<0.02 mg/L	240 umhos/cm	<0.5 ppt	<b>309</b> MPN/100mls	<0.05 mg/L	-	Bacteria	Results of this flow during dry weather indicated a potential bacterial impact; however,

					further investigation is needed to confirm whether the bacterial impact is naturally
					occurring.

#### 2.2 Wet weather sample and inspection data

For details on this requirement, visit <a href="https://nemo.uconn.edu/ms4/tasks/monitoring.htm">https://nemo.uconn.edu/ms4/tasks/monitoring.htm</a>. Refer to the green column of the Monitoring comparison chart and the IDDE catchment investigation flowchart.

Provide sample data for outfalls and key junction manholes of any catchment 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
OF-206	41.865117/- 72.902721	9/1/2021			213.9 uS/cm		-E.coli <b>369</b> col/100ml		20.2°C	Bacteria
OF-206	41.865117/- 72.902721	8/26/2022			3.2 uS/cm		> <b>24,200</b> MPN/100mL		23.7°C	Bacteria
OF-40	41.840474/- 72.924501	6/14/2021			179.8 uS/cm		<b>4,110</b> MPN/100mL		18°C	Bacteria

## 1. 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
1	Nepaug River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
2	Nepaug River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
3	Nepaug River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
5	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
15	Roaring Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
18	Roaring Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.

19	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
20	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
21	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
22	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
23	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
24	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
25	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
26	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
40	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
41	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
42	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
43	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
44	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
46	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
52	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
53	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
54	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
56	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
58	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
59	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
61	Roaring Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
62	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
63	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
64	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
65	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
66	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
67	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
68	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
69	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
73	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
74	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
75	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
77	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
78	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
79	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
80	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
81	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
82	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
84	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
85	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.

Farmington River This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF 114 Farmington River This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF 116 Farmington River This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF 117 Farmington River This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF 118 Farmington River This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF 119 Farmington River This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF 120 Farmington River This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF 121 Farmington River This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF 132 Farmington River This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF 133 Farmington River This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF 134 Farmington River This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF 155 Farmington River This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF 156 Farmington River This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF 157 Roaring Brook This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF 158 Roaring Brook This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF 1			
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Hop Brook This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF Cherry Brook This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF Hop Brook This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF Farmington River This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF	200	Hop Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
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Cherry Brook This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF	203	Hop Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
Cherry Brook This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF	204	Hop Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
Farmington River This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF Farmington River This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF Farmington River This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF	205		This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
Farmington River This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF Farmington River This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF Farmington River This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF	206	Hop Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
Farmington River This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF Farmington River This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF	220	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
223 Farmington River This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF	221	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
	222	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
	223	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
	224		This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
Nepaug River  This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF			This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.

The Town of Canton's sanitary sewer is currently managed by the Town of Canton's Water Pollution Control Facility (WPCF). The storm sewer and sanitary sewer have historically been separate, and remain so in the present day. Therefore, SVFs 4, 5, 6, 7, 8, and 9 are not applicable to the Town. Other SVFs are currently under investigation, and will be updated in the next annual report. These investigations include coordination between the WPCF, as well as the Farmington Valley Health District.

#### 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

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

The identification of key junction manholes that may narrow the location of suspected illicit discharges or SSOs to an isolated pipe segment between two manholes, or key junction manholes that may be located or show evidence of illicit discharges or SSOs that may not be evident at the outfall under all circumstances, or to confirm or identify potential system vulnerability factors is underway. Once identified, these key junction manholes will be inspected during dry weather events for evidence of illicit discharges or SSOs.

#### 3.3 Wet weather investigation outfall sampling data

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	
Following the identification of key junction manholes during dry weather inspections, follow-up wet weather sampling will be completed where inspections indicate the presence of one or more SVF, SSO, or illicit discharge.						

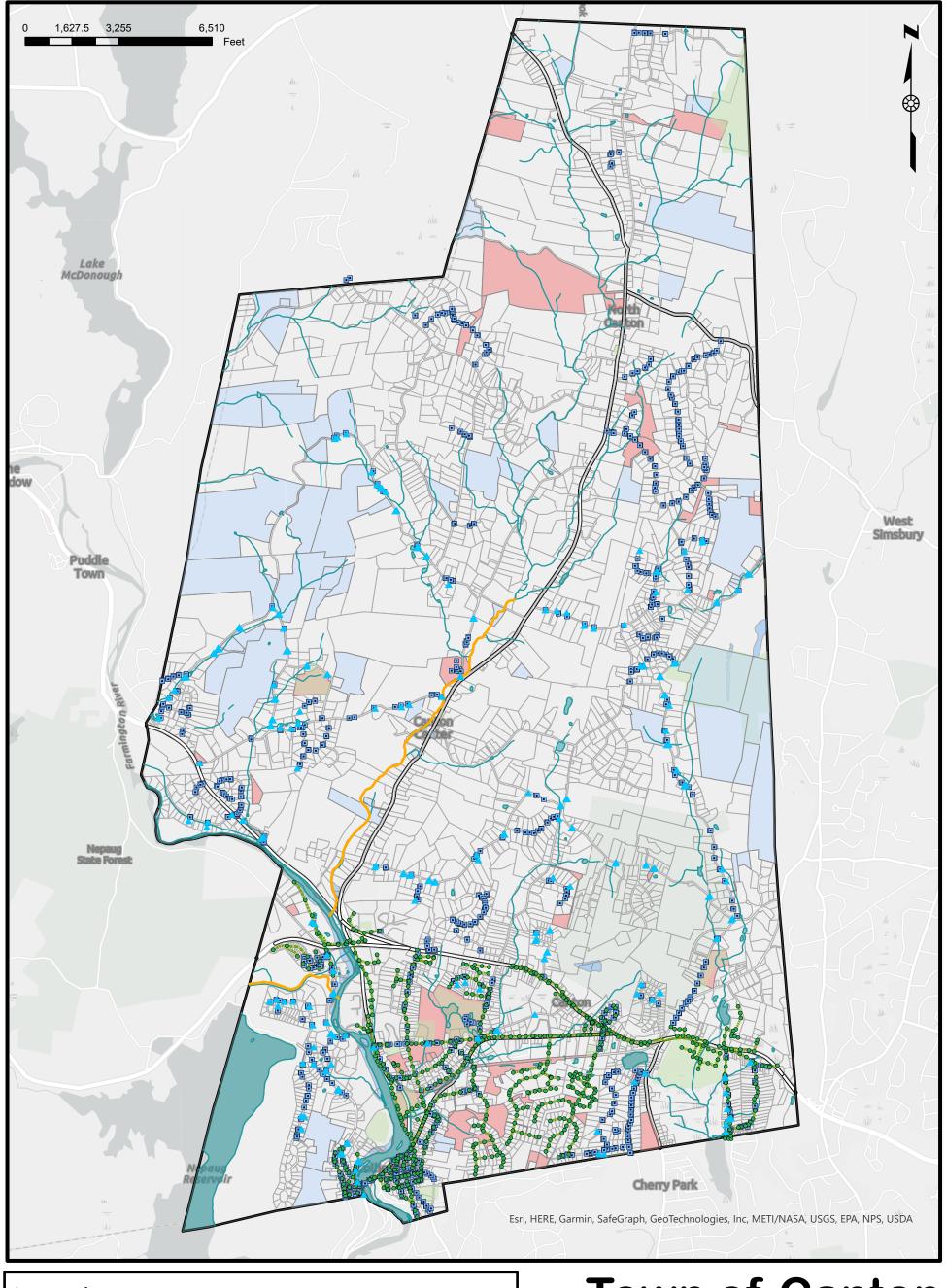
#### 3.4 Data for each illicit discharge source confirmed through the catchment investigation procedure

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

#### 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."

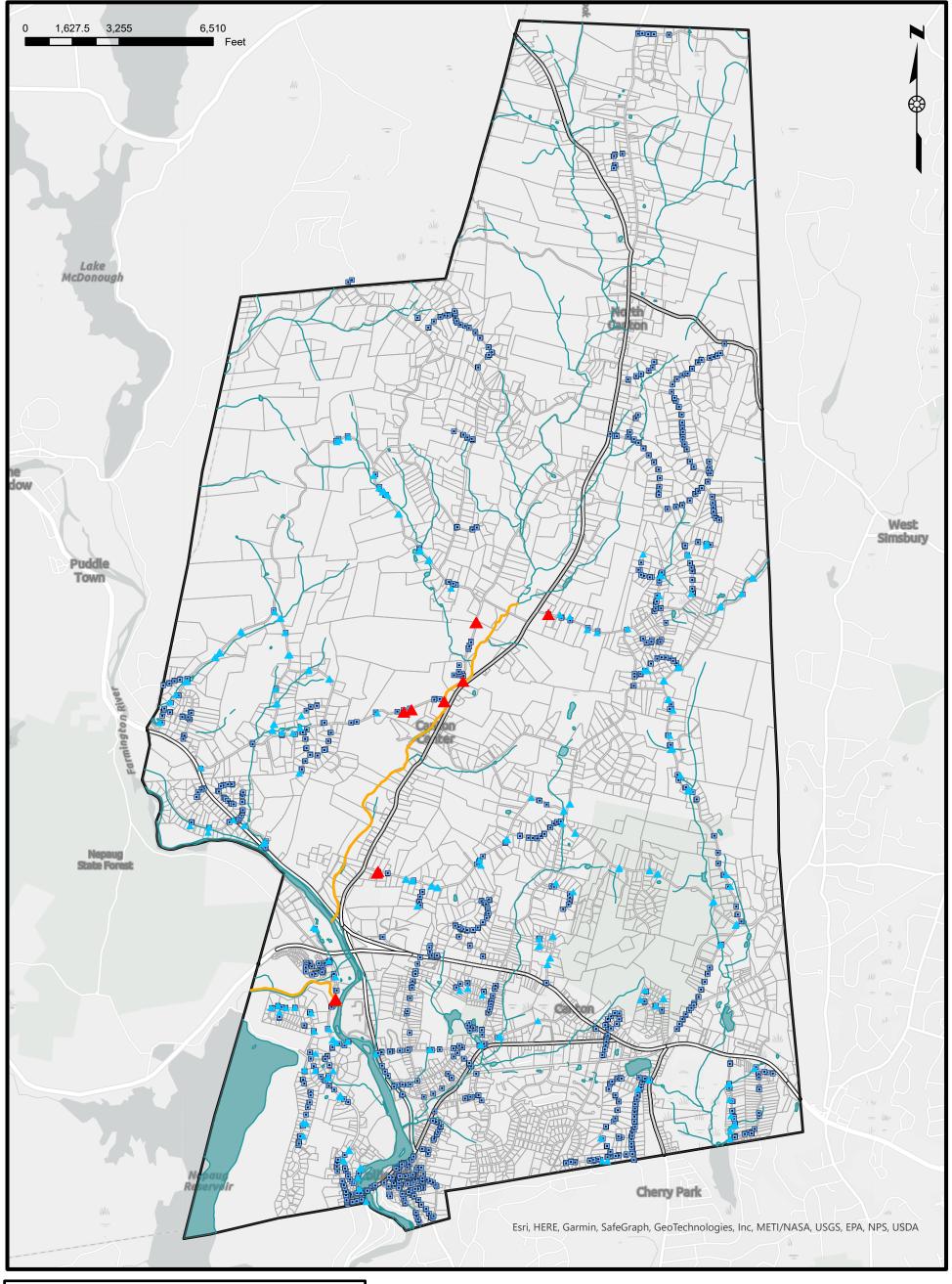
Chief Elected Official or Principal Executive Officer	Document Prepared by
Print name: Robert Bessel	Print name: Kay Lehoux, Environmental Compliance Manager-Atlas
Signature / Date:	Signature / Date:
Email: rbessel@townofcantonct.org	Email: Kay.Lehoux@oneatlas.com

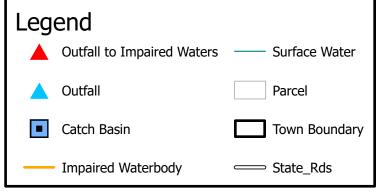




# Town of Canton 2022 Annual Report MS4 System

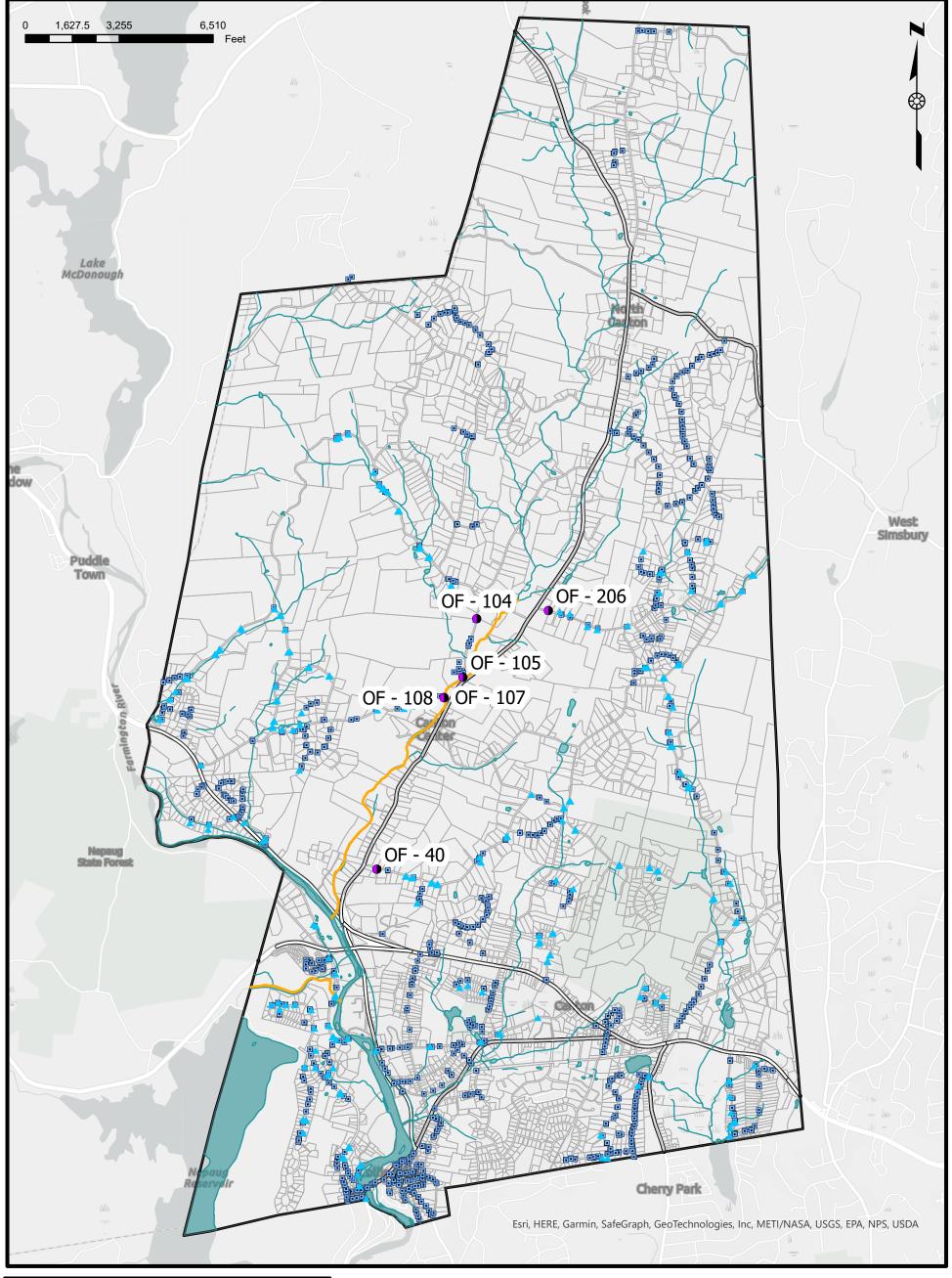


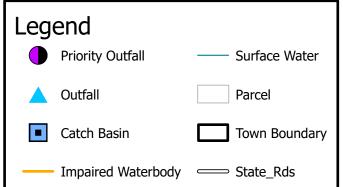




# Town of Canton 2022 Annual Report Outfalls to Impaired Waters

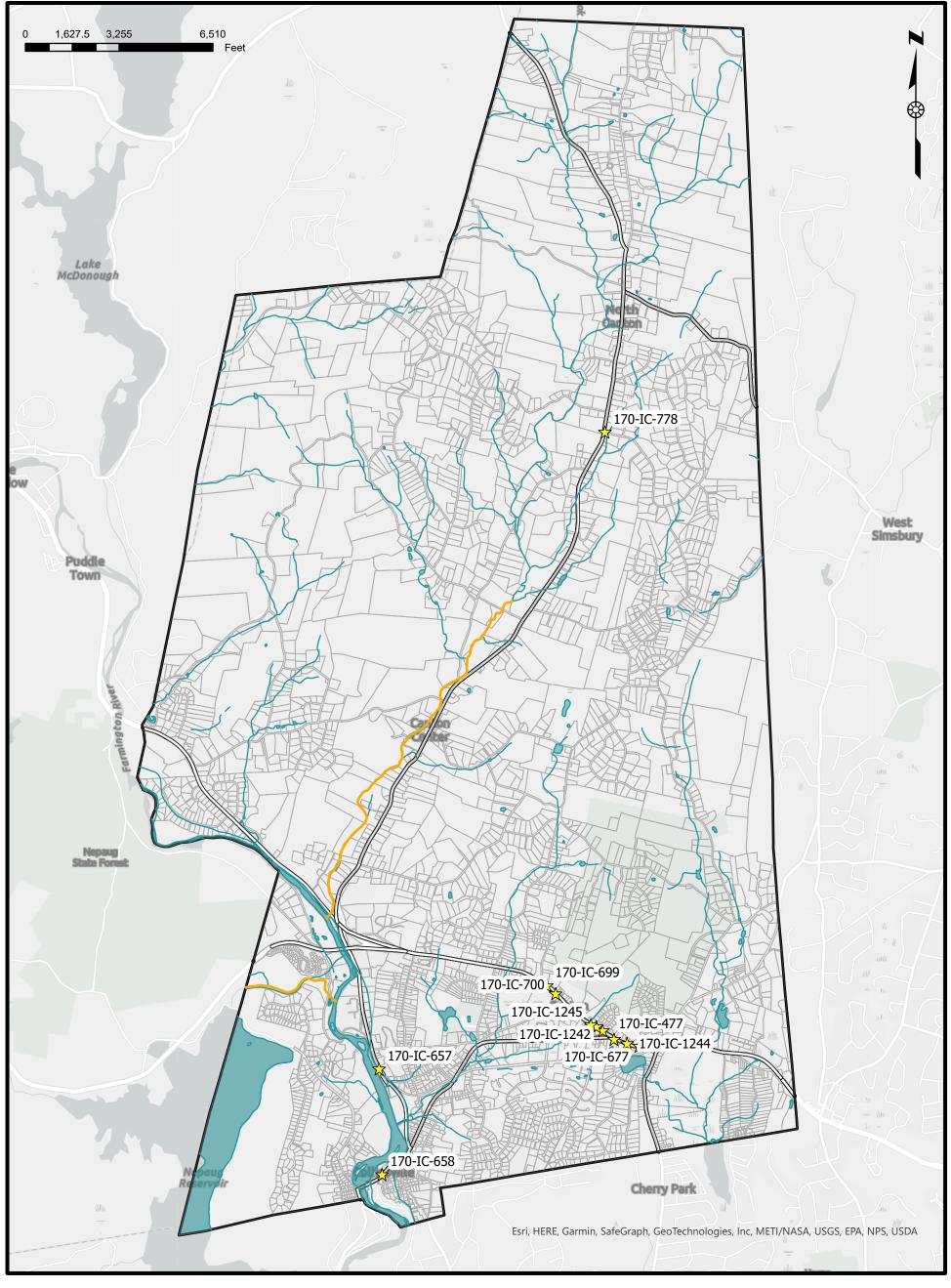


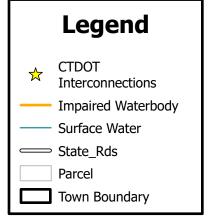




# Town of Canton 2022 Annual Report Priority Outfalls

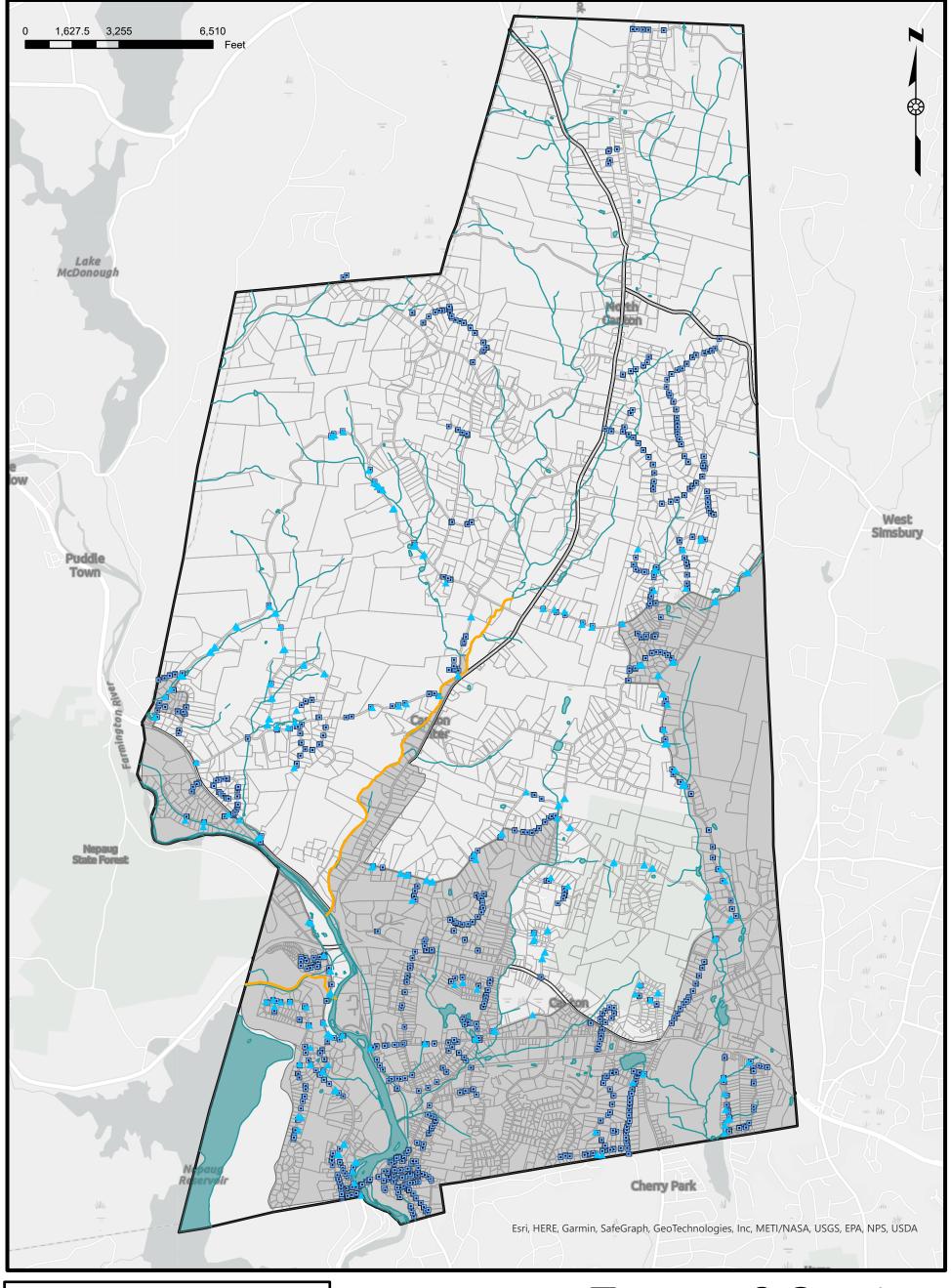


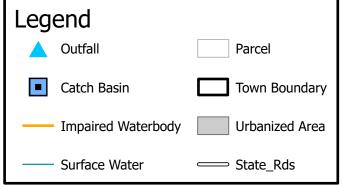




# Town of Canton 2022 Annual Report CTDOT Interconnections

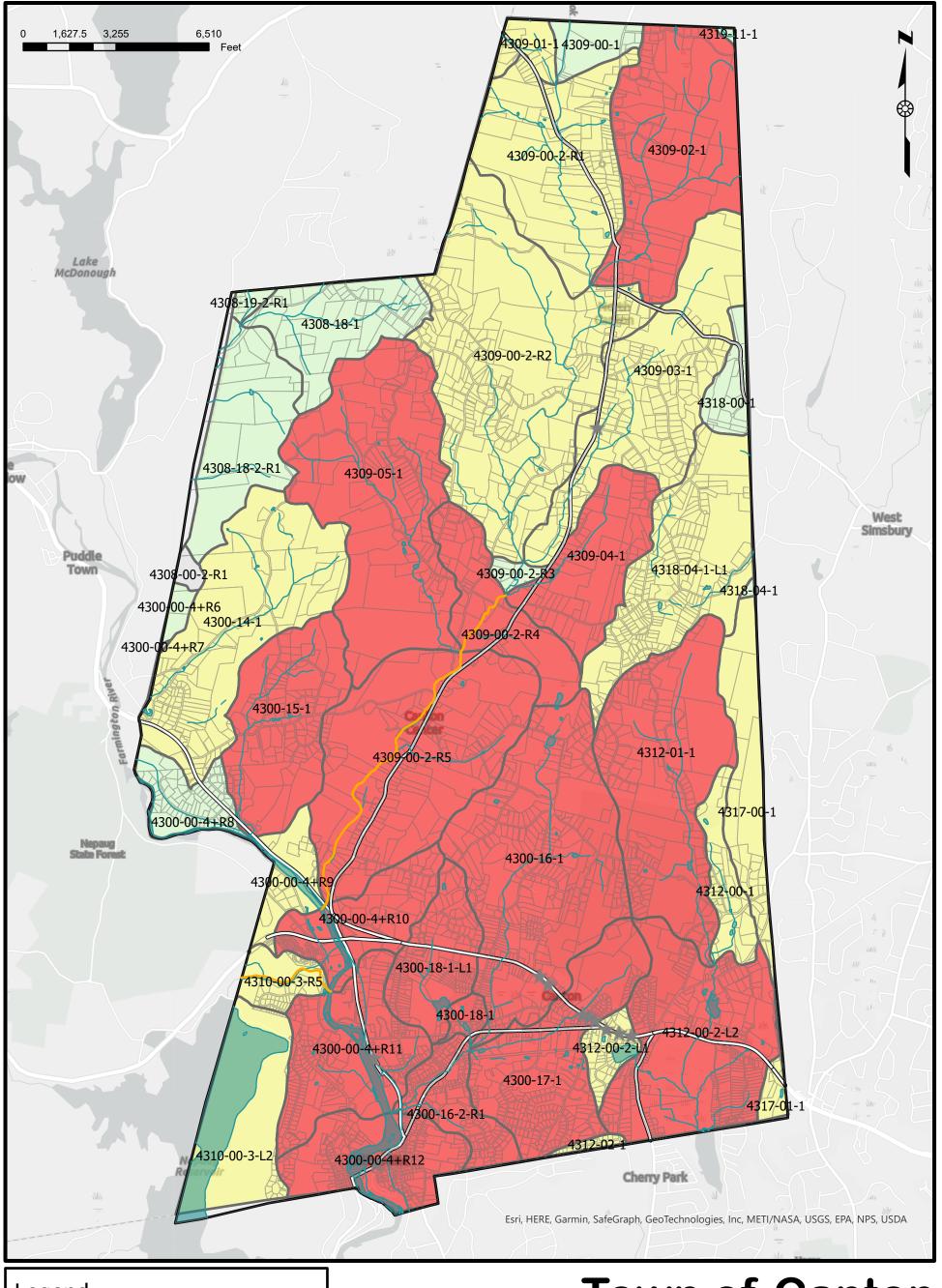


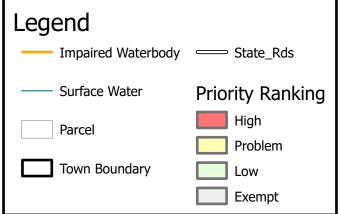




# Town of Canton 2022 Annual Report Urbanized Area by Catchment

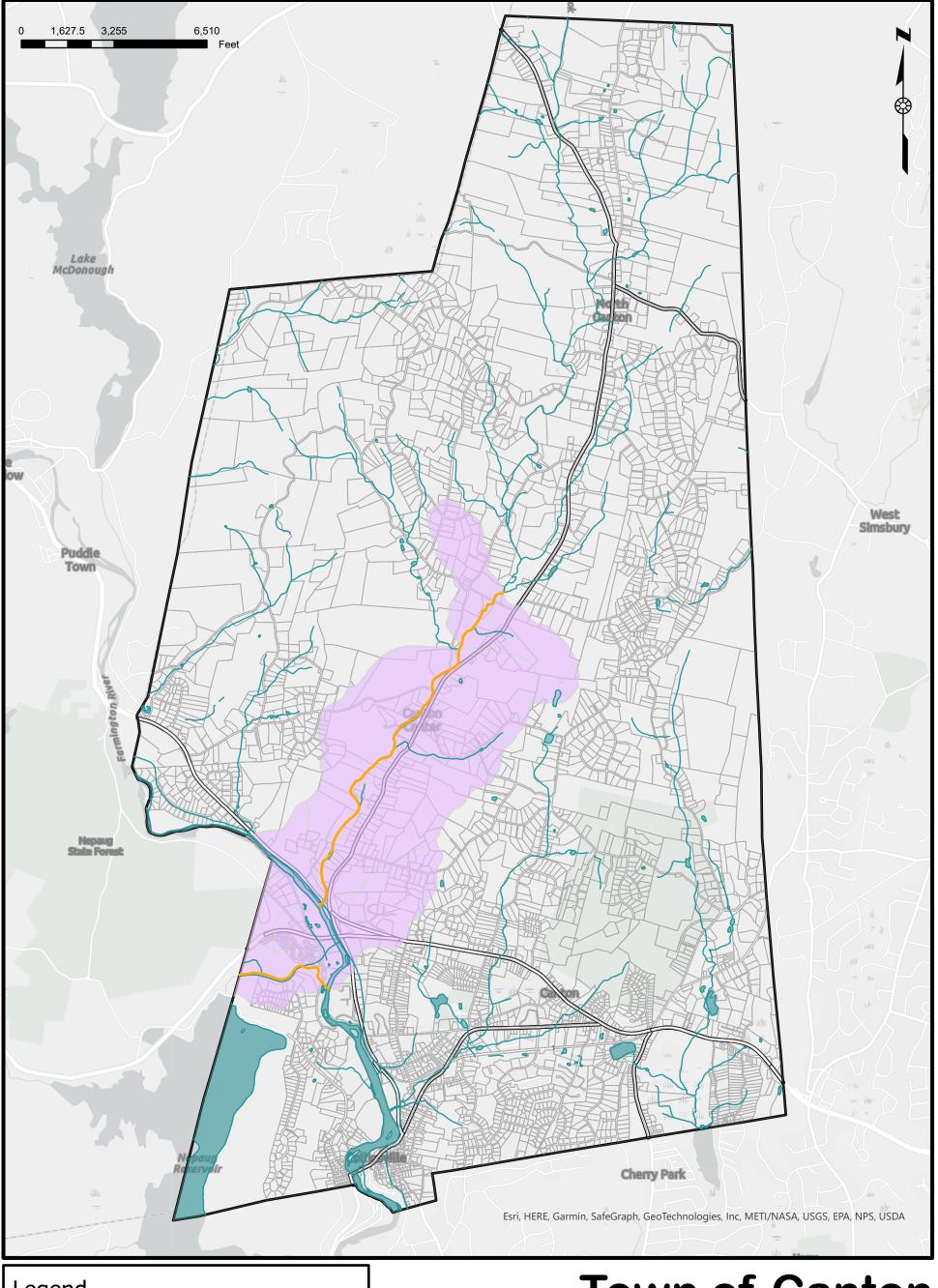


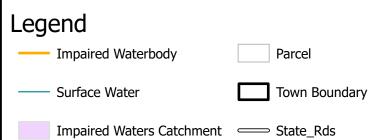




# Town of Canton 2022 Annual Report Catchment Priority Ranking

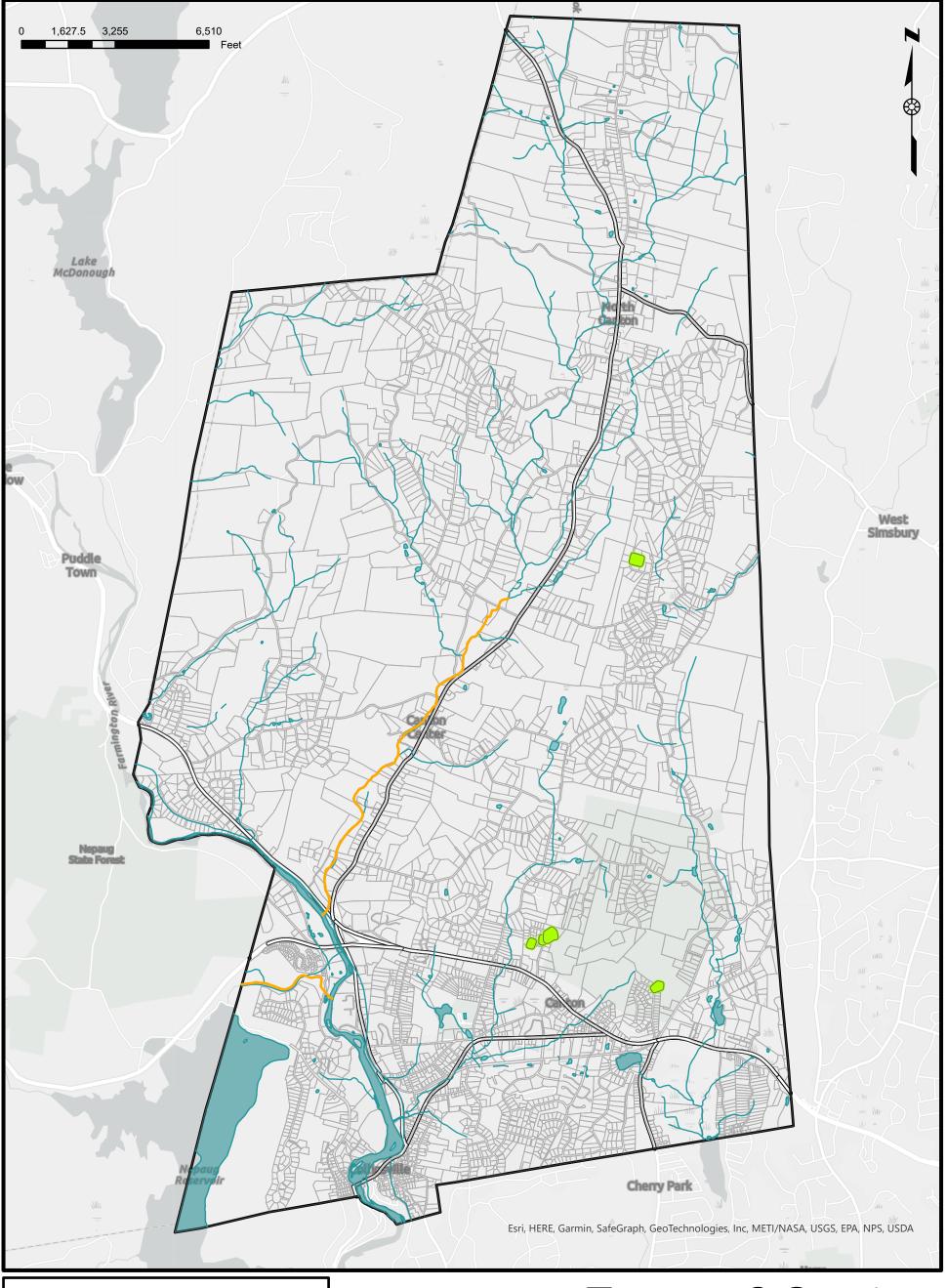


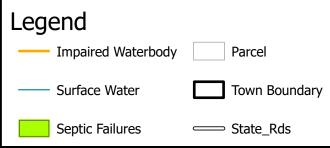




Town of Canton 2022 Annual Report Impaired Waters by Catchment

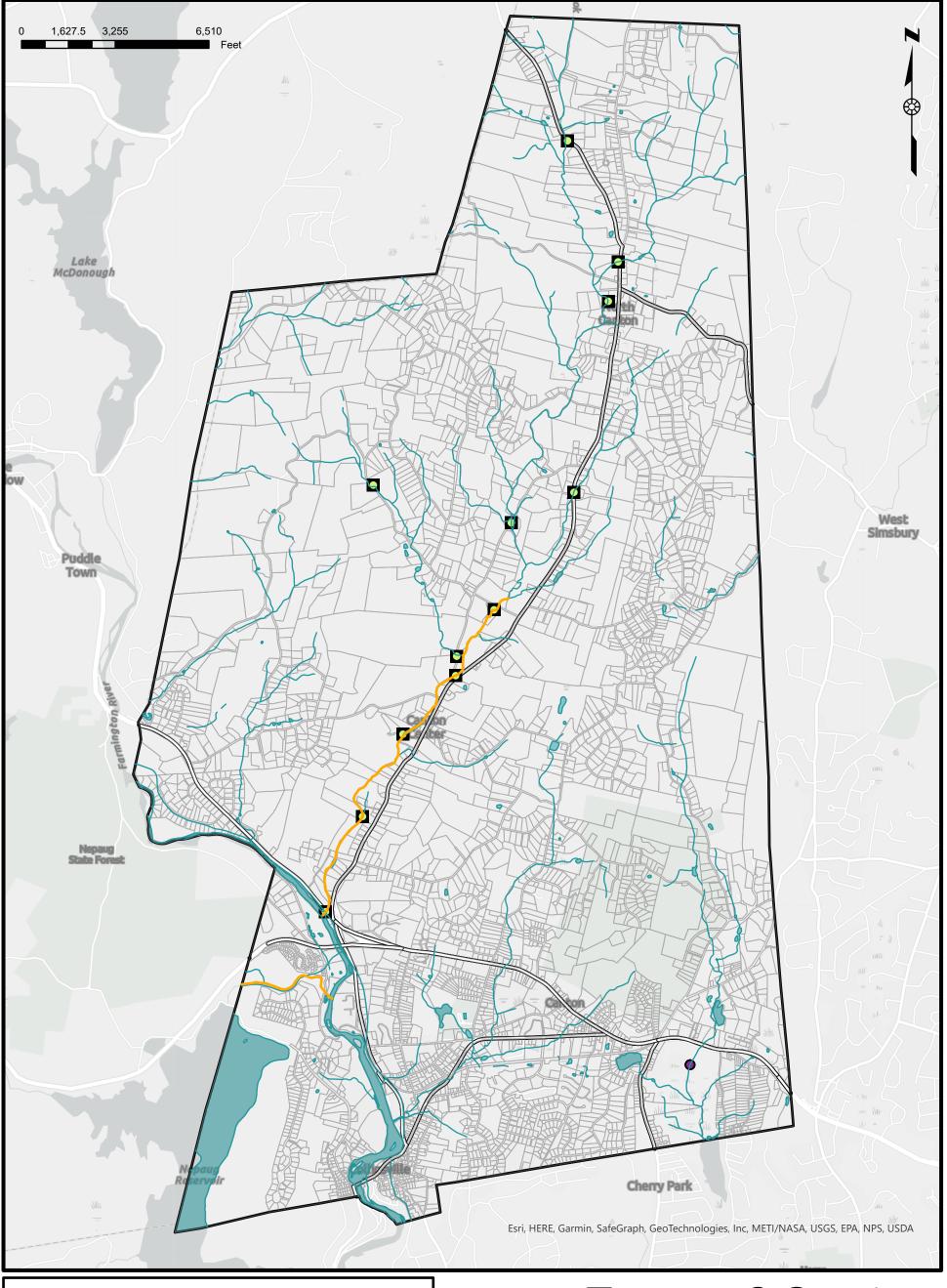






# Town of Canton 2022 Annual Report 2022 Septic Failures

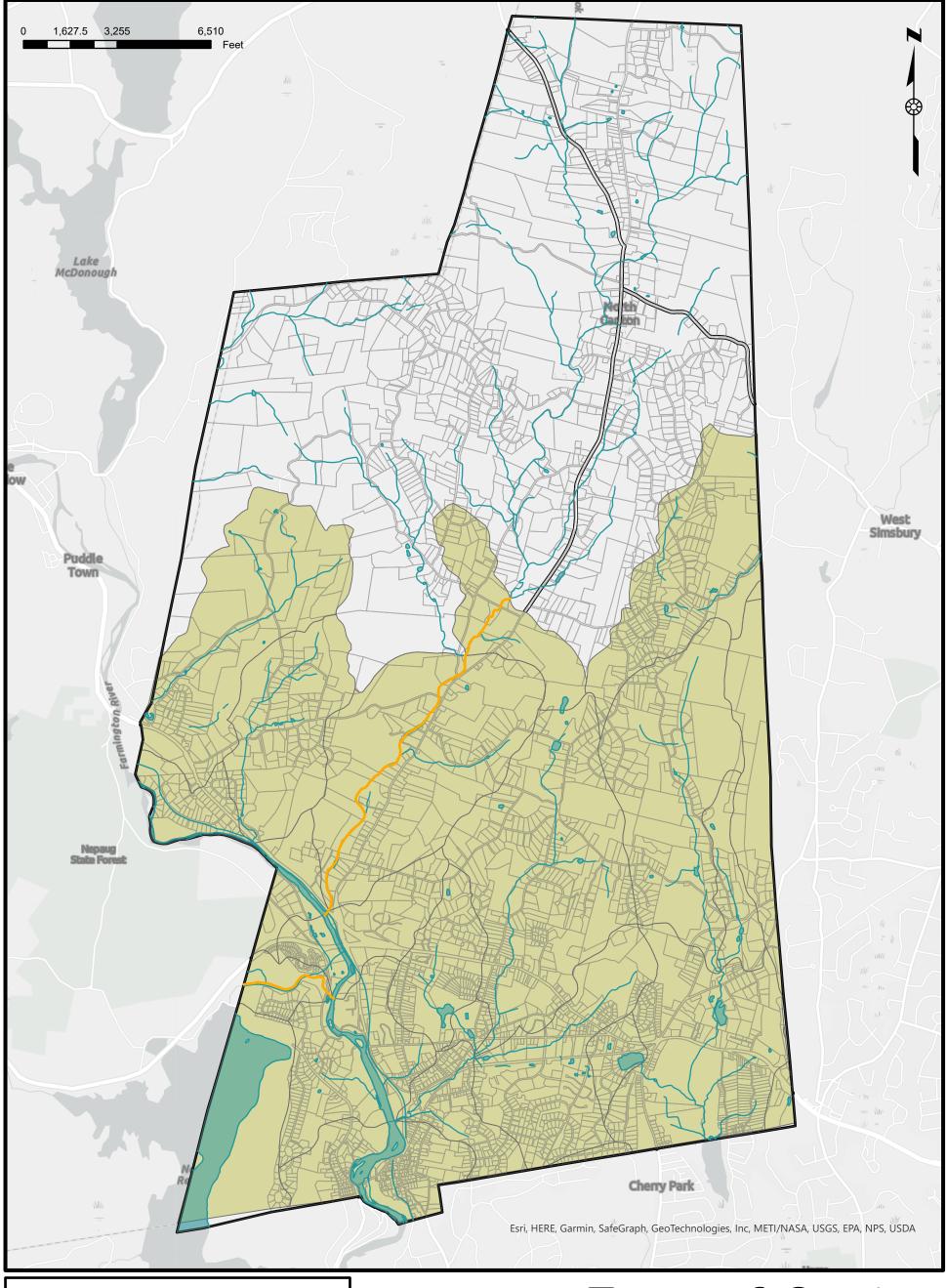


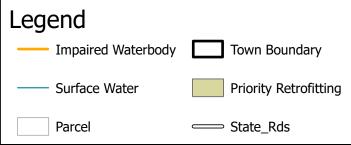


# Legend Impaired Waterbody Nutrient Sampling Location Surface Water Parcel Bacteria Sampling Location Town Boundary Chloride Sampling Location State\_Rds

# Town of Canton 2022 Annual Report FRWA Sampling







Town of Canton 2022 Annual Report Prioritized Retrofitting by Catchment



### ATTACHMENT I

# Town of Canton 2022 Wet Weather Sampling

						Gener	al Parame	ters			Вас	terial
Outfall ID	Inspection Date	Condition	Discharge Description	Temperature (°C) <sup>(3)</sup>	pH (SU) <sup>(3)</sup>	Dissolved Oxygen (mg/L)	SPC (uS/cm)	ORP (mV)	Turbidity (NTU)	Odor	Escherichia Coli MPN/	Total Coliforms 100mL
OF-206	8/26/2022	Poor	Outfall half-filled with sediment. Sample is clear with little suspended sediment.	23.7	5.97	4.79	3.2	99	34.10	No	>24,200	>24,200
OF-104	8/26/2022	Excellent	Discharge mostly clear with little suspended seditment. Light brown color.	24.5	6.06	4.92	27.8	156.4	39.73	No	15,500	>24,200
OF-105	8/26/2022	Excellent	Clear with suspended sediment. Light brown color.	25.7	6.05	6.68	93	176.2	48.47	No	3,450	>24,200
OF-107	9/22/2022	Fair	Approximately 1-inch of sediment within outfall. Very low flow. Discharge appearance is clear.	18.9	7.31	5.61	62.4	162.5	13.20	No	10,500	>24,200
OF-108	9/22/2022	Fair	Approximately 2-inches of sediment in outfall. Very low flow discharged from outfall. Appearance of discharge is clear, no color.	17.3	6.41	6.42	21.2	175.8	14.03	No	7,270	>24,200
OF-40	8/26/2022	Good	Heavy foam. Clear. Organic- like odor.	22.9	6.11	5.08	221.2	77.3	18.35	Yes	5,170	>24,200

### Notes:

- \* All highlighted bacterial concentrations are required for follow-up investigations.
- \*Highlighting is based on the following criteria;
- 1. E. Coli >235/100mL for Swimming Areas, and >410 col/100mL for all others.
- 2. Total Coliform > 500 col/100mL
- 3. Fecal Coliform >31 col/100 mL for Class SA and >260 col/100mL for Class SB
- 4. Enterococci >104 col/100mL for Swimming Areas and >500 col/100mL for all others.



Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108

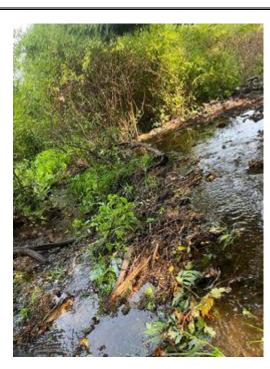


**Client Name:** *Town of Canton* 

**Site Location:** 

Town of Canton MS4 Outfalls-Wet Weather Sampling **Date:** 2022

### Outfall ID







Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name: Town of Canton **Site Location:** 

Town of Canton MS4 Outfalls-Wet Weather Sampling **Date:** 2022

### Outfall ID







# PHOTOGRAPHIC LOG Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108 Client Name: Town of Canton Site Location: Town of Canton MS4 Outfalls-Wet Weather Sampling Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108 Date: 2022

Outfall ID OF-206	

Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



**Client Name:** *Town of Canton* 

**Site Location:** 

Town of Canton MS4 Outfalls-Wet Weather Sampling **Date:** 2022

### Outfall ID







Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



**Client Name:** *Town of Canton* 

**Site Location:** 

Town of Canton MS4 Outfalls-Wet Weather Sampling **Date:** 2022

### Outfall ID







Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name: Town of Canton **Site Location:** 

Town of Canton MS4 Outfalls-Wet Weather Sampling **Date:** 2022

### Outfall ID









587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

September 23, 2022

FOR: Attn: Luke Whitehouse

**ATC Associates** 

290 Roberts St., Suite 301 East Hartford, CT 06108

Sample InformationCustody InformationDateTimeMatrix:STORM WATERCollected by:09/22/2212:40Location Code:ATC-EHDASReceived by:CP09/22/2217:10

Rush Request: 48 Hour Analyzed by: see "By" below

P.O.#:

Laboratory Data

SDG ID: GCM39455

Phoenix ID: CM39455

Project ID: TOWN OF CANTON MS4 SW COMPLIANCE

Client ID: OF-107

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Escherichia Coli	10500	10	MPN/100 mls	10	09/22/22 19:35		SM9223B-16
Total Coliforms	>24200	10	MPN/100 mls	10	09/22/22 19:35		SW9223B-16

### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

September 23, 2022

Official Report Release To Follow

Ver 1 Page 1 of 2



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

September 23, 2022

FOR: Attn: Luke Whitehouse

**ATC Associates** 

290 Roberts St., Suite 301 East Hartford, CT 06108

Sample InformationCustody InformationDateTimeMatrix:STORM WATERCollected by:09/22/2212:50Location Code:ATC-EHDASReceived by:CP09/22/2217:10

Rush Request: 48 Hour Analyzed by: see "By" below

P.O.#:

Laboratory Data SDG ID: GCM39455

Phoenix ID: CM39456

Project ID: TOWN OF CANTON MS4 SW COMPLIANCE

Client ID: OF-108

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Escherichia Coli	7270	10	MPN/100 mls	10	09/22/22 19:35		SM9223B-16
Total Coliforms	>24200	10	MPN/100 mls	10	09/22/22 19:35		SW9223B-16

### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

September 23, 2022

Official Report Release To Follow

Ver 1 Page 2 of 2

Friday, September 23, 2022

Criteria: CT: GBM, GWP, RC, SWP

# Sample Criteria Exceedances Report GCM39455 - ATC-EHDAS

State: CT

State: C1

RL Analysis
SampNo Acode Phoenix Analyte Criteria Units
Result RL Criteria Units

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Page 1 of 1

<sup>\*\*\*</sup> No Data to Display \*\*\*

Coolent: IPK V ICE	587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040 Email: info@phoenixlabs.com Fax (860) 645-0823	Client Services (860) 645-8726   X Email	Isultants, LLC Project: Town of Canton MS4 SW Complinance Project P.O. Report to:	Invoice to: Atlas	# I COM	ate: 9/22/22 Analysis Request Request	100 1 100 100 100 100 100 100 100 100 1	Sample Date Time Col		X X X X X X X X X X X X X X X X X X X	×	SW X X X X X X X X X X X X X X X X X X X	sw 9/22 12:40 x x	sw 9/22 12:50 x x		opted by: CT MA Data Format	9/32/22 Milest Exposure (Residential)	SW Protection GW-2	Turnaround:  GB Mobility  1 Day*  Residential DEC   S-2   Data	■ 2 Days* ☐ I/C DEC ☐ S-3 ☐ Full Data Package* ☐ 3 Days* ☐ Other ☐ Ot	
	HOENIX	32	Customer: Atlas Technical Consultants, LLC		Client Sample. Information - Identification	Sampler's MWW (MML) Date: C	Matrix Code: DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Soild W=Wipe OIL=Oil B=Bulk L=Liquid		OF-104	5-1 OF 206	OF-40	OF:105		1		Relinguished by Accepted by:	ckwell		Comments, Special Requirements or Regulations:	CT DAS Rates	



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

August 29, 2022

FOR: Attn: Luke Whitehouse

**ATC Associates** 

290 Roberts St., Suite 301 East Hartford, CT 06108

Sample InformationCustody InformationDateTimeMatrix:STORM WATERCollected by:08/26/2216:00Location Code:ATC-EHDASReceived by:B08/26/2217:30

Rush Request: 48 Hour Analyzed by: see "By" below

P.O.#:

**Laboratory Data** 

SDG ID: GCM16552

Phoenix ID: CM16552

Project ID: TOWN OF CANTON MS4 SW COMPLIANCE

Client ID: OF-104

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Escherichia Coli Total Coliforms	15500 >24200	10 10	MPN/100 mls MPN/100 mls	10 10			SM9223B-16 SW9223B-16

### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

August 29, 2022

Official Report Release To Follow

Ver 1 Page 1 of 4



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

August 29, 2022

FOR: Attn: Luke Whitehouse

**ATC Associates** 

290 Roberts St., Suite 301 East Hartford, CT 06108

Sample InformationCustody InformationDateTimeMatrix:STORM WATERCollected by:08/26/2216:10Location Code:ATC-EHDASReceived by:B08/26/2217:30

Rush Request: 48 Hour Analyzed by: see "By" below

P.O.#:

Laboratory Data SDG ID: GCM16552

Phoenix ID: CM16553

Project ID: TOWN OF CANTON MS4 SW COMPLIANCE

Client ID: OF-206

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Escherichia Coli	>24200	10	MPN/100 mls	10	08/26/22 18:40	LJ/KDB	SM9223B-16
Total Coliforms	>24200	10	MPN/100 mls	10	08/26/22 18:40	LJ/KDB	SW9223B-16

### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### **Comments:**

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Phyllis Shiller, Laboratory Director

August 29, 2022

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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

August 29, 2022

FOR: Attn: Luke Whitehouse

**ATC Associates** 

290 Roberts St., Suite 301 East Hartford, CT 06108

Sample InformationCustody InformationDateTimeMatrix:STORM WATERCollected by:08/26/2216:30Location Code:ATC-EHDASReceived by:B08/26/2217:30

Rush Request: 48 Hour Analyzed by: see "By" below

P.O.#:

Laboratory Data

SDG ID: GCM16552

Phoenix ID: CM16554

Project ID: TOWN OF CANTON MS4 SW COMPLIANCE

Client ID: OF-40

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Escherichia Coli Total Coliforms	5170 >24200	10 10	MPN/100 mls MPN/100 mls	10 10			SM9223B-16 SW9223B-16

### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Phyllis Shiller, Laboratory Director

August 29, 2022

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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

August 29, 2022

FOR: Attn: Luke Whitehouse

**ATC Associates** 

290 Roberts St., Suite 301 East Hartford, CT 06108

Sample InformationCustody InformationDateTimeMatrix:STORM WATERCollected by:08/26/2215:45Location Code:ATC-EHDASReceived by:B08/26/2217:30

Rush Request: 48 Hour Analyzed by: see "By" below

P.O.#:

Laboratory Data SDG ID: GCM16552

Phoenix ID: CM16555

Project ID: TOWN OF CANTON MS4 SW COMPLIANCE

Client ID: OF-105

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Escherichia Coli Total Coliforms	3450 >24200	10 10	MPN/100 mls MPN/100 mls	10 10			SM9223B-16 SW9223B-16

### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### **Comments:**

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Phyllis Shiller, Laboratory Director

August 29, 2022

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Ver 1 Page 4 of 4

Monday, August 29, 2022

Criteria: CT: GAM, GWP, RC, SWP

# **Sample Criteria Exceedances Report**

GCM16552 - ATC-EHDAS

State: CT

RLAnalysis SampNo Acode Phoenix Analyte Criteria Result RLCriteria Criteria Units

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Page 1 of 1

<sup>\*\*\*</sup> No Data to Display \*\*\*

Relinquished by:  Accepted by:  Accepted by:  Accepted by:  Comments, Special Requirements or Regulations:

### **ATTACHMENT II**

Outfall ID	Inspection Date	Material	Subtype	Diameter (Inches)	Condition	Erosion Control	Notes	Maintenance Or Erosion Control Needed?	lillicit Discharge?	Illicit Discharge Flow Type	Illicit Discharge Description	Longitude	Latitude
OF-5	6/20/2022	Concrete	Endwall	18	Good	Good	Culverted stream. Three (3) 18-inch metal corrugated pipes.	No	No			-72.87955543	41.8204329
OF-6	6/20/2022	Corrugated Steel	Endwall	18	Good	Fair	Corrugated steel, concrete endwall.	No	No			-72.87970815	41.82039942
OF-9	6/20/2022	Concrete	Endwall	18	Fair	Fair	Concrete block head wall.	No	No			-72.87881881	41.81655661
OF-9	6/20/2022	Concrete	Endwall	18	Fair	Fair	Concrete block head wall.	No	No			-72.87880646	41.81440136
OF-26	6/20/2022	Concrete	Endwall	36	Good	Fair	Iron stain on discharge, clear flow no odor	No	Yes	Steady	Clear flow, iron staining	-72.88987708	41.8208011
OF-27	6/20/2022	Concrete	Flared End	24	Poor	Poor	Sediment 8-10 inches at end. Heavy over growth, no erosion control.	Maintenance and Erosion Control	No			-72.89124251	41.81999105
OF-29	6/20/2022	Concrete	Flared End	18	Good	Good	Concrete flare end,18- inch diameter. Some riprap.	No	No			-72.89507832	41.81307512
OF-28	6/20/2022	Concrete	Flared End	18	Poor	Poor	Concrete flared end, 18- inch diameter. Depressed area set in soil. Standing water in pipe and depression.	Maintenance and Erosion Control	No			-72.89574307	41.81309521
OF-30	6/20/2022	Concrete	Flared End	18	Fair	Poor	Concrete flared end, 18- inches. Next to drainage pipe is a 24-inch flare to 18- inch pipe concrete flared end. Discharges into wetland-standing water.	Maintenance and Erosion Control	No			-72.8959407	41.81526447
OF-14	6/20/2022	Concrete	Other	18	Fair	Fair	Concrete pipe, stone/boulder erosion control, dry , 6- inches of sediment inside pipe.	Maintenance and Erosion Control	No			-72.88790976	41.82851945
OF-60	6/20/2022						No outfall or culvert found					-72.88804451	41.82851945
OF-24	6/20/2022	Concrete	Endwall	18	Fair	Fair	Concrete pipe parallel to endwall of OF-23.	Maintenance and Erosion Control	No			-72.90237264	41.83238832
OF-24	6/20/2022	Concrete	Endwall	18	Good	Fair	18 -inch concrete pipe. Dry,no sediment, discharge adjacent to OF- 23 . Drainage swale, covered stone box drain.	Erosion Control	No		ł	-72.90237264	41.83238832
OF-50	6/20/2022	Concrete	Endwall	18	Good	Poor	Stone Endwall with concrete pipe 18 -inch.	Erosion Control	No			-72.90280383	41.83176583



Outfall ID	Inspection Date	Material	Subtype	Diameter (Inches)	Condition	Erosion Control	Notes	Maintenance Or Erosion Control Needed?	lillicit Discharge?	Illicit Discharge Flow Type	Illicit Discharge Description	Longitude	Latitude
OF-25	6/20/2022	HDPE	Other	18	Good	Excellent	Discharge to catch basin. Receives from catch basin upflow, that receives discharge from 4- inch corrugated pipe.	No	No			-72.90272298	41.83175914
OF-19	6/20/2022	Concrete	Endwall	18	Good	Fair	Stone endwall with 18- inch concrete pipe set back in endwall. Natural rounded boulders channel cut by erosion.	Erosion Control	No			-72.9021301	41.83443645
OF-18	6/20/2022	Concrete	Endwall	18	Good	Fair	18- inch concrete pipe, dry, no sediment, discharge adjacent to OF- 23 . Drainage swale, covered stone box drain. Discharges to outfall OF- 19.	Erosion Control	No			-72.90204925	41.83450338
OF-20	6/20/2022	Concrete	Other	18	Fair	Poor	18 -inch concrete pipe, sediment channel cut by erosion.	Maintenance and Erosion Control	No			-72.90388995	41.83415151
OF-20	6/20/2022	Concrete	Other	18	Fair	Poor	18 -inch concrete pipe, 1/2 filled with sediment, and sediment channel cut by erosion.	Maintenance and Erosion Control	No			-72.90387283	41.83421557
OF-22	6/20/2022	Concrete	Endwall	24	Good	Good	24- inch. Stormwater flow received from catch basin on road.	No	No			-72.90392673	41.83347932
OF-21	6/20/2022	Concrete	Other	18	Fair	Poor	Surface discharge to 18- inch culvert stream clear flow discharge to OF-23.	Maintenance and Erosion Control	No			-72.90373808	41.83362657
OF-160	6/20/2022	Unknown	Unknown	Unknown	Poor	Poor	Covered pipe not visible, surface water would flow in sediment channel along road.	Maintenance and Erosion Control	No			-72.87884576	41.83551403
OF-162							Bridge over top of stream. No culvert or outfall.		No			-72.88156766	41.83778961
OF-161							Bridge over top of stream. No culvert or outfall.		No			-72.88177427	41.83769592
OF-159	6/20/2022	Corrugated Steel	Endwall	18	Fair	Poor	18- inch corrugated steel pipe with mortared stone end wall, dry, receives surface runoff from road.	Maintenance and Erosion Control	No			-72.87869305	41.83566128



Outfall ID	Inspection Date	Material	Subtype	Diameter (Inches)	Condition	Erosion Control	Notes	Maintenance Or Erosion Control Needed?	lillicit Discharge?	Illicit Discharge Flow Type	Illicit Discharge Description	Longitude	Latitude
OF-166	6/20/2022	Concrete	Endwall	18	Poor	Poor	18 -inch corrugated steel pipe with mortared stone end wall, dry, receives surface runoff from road. Filled with sediment dry.	Maintenance and Erosion Control	No			-72.88883503	41.84037297
OF-165	6/20/2022	Concrete	Endwall	18	Fair	Poor	Culvert, Stone Endwall with 18- inch concrete pipe, half filled with sediment.	Maintenance and Erosion Control	No			-72.8886913	41.84045998
OF-163	6/20/2022	Precast	Endwall	24	Poor	Fair	18 -inch corrugated steel pipe with mortared stone end wall dry, receives surface runoff from road, crosses road to location OF-164.	Maintenance and Erosion Control	No			-72.88978724	41.84078791
OF-164	6/20/2022	Stone	Endwall	24	Poor	Poor	From stone endwall filled in with soil. aA clay pip extends approximately 5 feet out from end wall into standing water.	Maintenance and Erosion Control	No			-72.88977826	41.84070091
OF-169	6/20/2022	Concrete	Endwall	18	Good	Good	18- inch corrugated steel pipe with mortared stone end wall, dry, receives surface runoff from road.	No	No			-72.89369492	41.84090168
OF-167	6/20/2022	Concrete	Endwall	18	Poor	Fair	Stone headwall with concrete pipe half filled with soil. Channel contains wood chips.	Maintenance and Erosion Control	No			-72.89364102	41.84103553
OF-169	6/20/2022	Precast	Endwall	18	Fair	Fair	18- inch corrugated steel pipe with mortared stone end wall, dry, receives surface runoff from road. Filled with sediment. Entering pipe headwall crosses road to OF-70.	Maintenance and Erosion Control	No			-72.89923752	41.84432812



Outfall ID	Inspection Date	Material	Subtype	Diameter (Inches)	Condition	Erosion Control	Notes	Maintenance Or Erosion Control Needed?	lillicit Discharge?	Illicit Discharge Flow Type	Illicit Discharge Description	Longitude	Latitude
OF-170	6/20/2022	Concrete	Endwall	18	Good	Fair	Stone Endwall with 18 - inch concrete pipe, some natural rounded boulders below pipe discharge, standing water puddle and sediment eroded channel. Heavily overgrown around endwall.	Erosion Control	No		-	-72.8993004	41.84425451
OF-56	6/20/2022	Corrugated Steel	Other	48	Good	Good	Entrance of stream flowing through culvert. Corrugated steel, 48 - inches, some riprap.	No	No			-72.90069279	41.84646286
OF-33	6/20/2022	Precast	Flared End	30	Excellent	Good	30- inch precast with flared end.	No	No			-72.90092635	41.8451847
OF-38	6/20/2022	Corrugated Steel	Other	24	Good	Good	Exit of stream flowing through 24- inch corrugated steel. Culvert, some riprap.	No	No			-72.90071974	41.84637587
OF-172	6/20/2022	HDPE	Other	24	Good	Good	Corrugated HDPE pipe entrance to surface water flowing under road. Downward sloping stream with riprap leading into pipe.	No	No			-72.89986634	41.84704505
OF-171	6/20/2022	HDPE	Flared End	24	Excellent	Good	24 hdpe receives water from catch basins. 6-inch inner pipe.	No	No			-72.90001905	41.84705174
OF-192	6/20/2022	Precast	Endwall	48	Excellent	Good	Concrete discharge continuous flow, foam on surface, no odor, large boulder below plunge pool.	No	Yes	Steady	Clear, foam on surface, no odor, steady flow 3-5 gpa	-72.89013759	41.85975153
OF-191	6/20/2022	Precast	Endwall	36	Excellent	Good	Inflow pipe is concrete.	No	No			-72.89051488	41.85980505
OF-190	6/20/2022						No outfall observed/not located.		No			-72.89010165	41.85979167
OF-23	6/20/2022	Concrete	Endwall	18	Good	Fair	Endwall concrete 18 -inch pipe, parallel to OF-24.	Erosion Control	No			-72.90247146	41.83239501
OF-187	6/21/2022	Concrete	Endwall	18	Good	Good	Concrete block endwall, 18 -inch concrete pipe, discharging into a steam.	No	No			-72.88476566	41.84830979



Outfall ID	Inspection Date	Material	Subtype	Diameter (Inches)	Condition	Erosion Control	Notes	Maintenance Or Erosion Control Needed?	lillicit Discharge?	Illicit Discharge Flow Type	Illicit Discharge Description	Longitude	Latitude
OF-186	6/21/2022	Concrete	Endwall	18	Good	Good	18-inch concrete adjacent to stream culvert.	No	No			-72.88489143	41.84839009
OF-184	6/21/2022	Precast	Endwall	60	Good	Good	60- inch corrugated steel, stream culvert with masonry boulder end wall.	No	No			-72.88470278	41.84845032
OF-185	6/21/2022	stone	Endwall	72	Good	Good	Culvert under a road ending in stone endwall, 72- inch corrugated metal pipe.	No	No			-72.88484651	41.84830979
OF-183	6/21/2022	HDPE	Flared End	16	Good	Good	Flared end HDPE pipe, 16- inch exterior, 14- inch interior. Sticking out from an embankment. There is riprap down embankment.	No	No			-72.88587059	41.84980202
OF-180	6/21/2022	Plastic	Endwall	18	Good	Good	In concrete block end wall, 18- inch concrete pipe discharges into stream. Riprap and natural steam rocks are present.	No	No			-72.8868767	41.8522979
OF-179	6/21/2022	Concrete	Endwall	30	Good	Good	30-inch concrete end wall stream culvert. End wall concrete block mortared.	No	No			-72.8871423	41.85225869
Unknown- 1	6/21/2022	HDPE	Flared End	16	Good	Fair	HDPE pipe discharge from catch basin onto dried up shallow ditch. Previously flaredend (cut on angle), no cut straight. Scrap flared end piece still located near pipe.	No	No			-72.88755623	41.85355674
OF-178	6/21/2022	Concrete	Flared End	18	Good	Good	18- inch flared end.	No				-72.88684077	41.85600475
OF-176	6/21/2022	HDPE	Flared End	16	Good	Good	HDPE 16 -inch pipe runs under road, protruding from sloping terrain down from the road. Discharging into a rip rap and partially dried up channel.	No	Yes			-72.88737078	41.85704852
OF-175	6/21/2022	HDPE	Flared End	16	Good	Good	16- inch hdpe pipe , culvert for stream.	No	No			-72.88751451	41.85699499
OF-174	6/21/2022	Concrete	Endwall	18	Good	Good	Concrete head wall culvert	No	No			-72.88807146	41.85881486



Outfall ID	Inspection Date	Material	Subtype	Diameter (Inches)	Condition	Erosion Control	Notes	Maintenance Or Erosion Control Needed?	lillicit Discharge?	Illicit Discharge Flow Type	Illicit Discharge Description	Longitude	Latitude
OF-183	6/21/2022	Concrete	Endwall	18	Poor	Good	Stone Endwall with two 18 -inch concrete pipes discharging into a stream. Broken prices of endwall lay in front and below the pipes.	Maintenance	Yes	ı		-72.88791875	41.85876133
OF-189	6/21/2022	Concrete	Endwall	18	Fair	Fair	18 -inch concrete pipe , cast in place end wall, dry, 1/4 full with debris.	Maintenance and Erosion Control	No			-72.88626585	41.86002584
OF-188	6/21/2022	Concrete	Endwall	24	Good	Good	Concrete block and wall with 24 -inch concrete pipe, discharging into pond.	No	No			-72.8859694	41.86007936
OF-196	6/21/2022	Concrete	Flared End	30	Good	Good	30- inch concrete culvert, mortared stone end wall.	No	No	1		-72.88077714	41.8659533
OF-197	6/21/2022	Concrete	Endwall	30	Good	Good	Headwall to culvert, stream runs under road. 30 -inch concrete pipe entrance to stream water.	No	No			-72.88082206	41.86580612
OF-194	6/21/2022	Precast	Endwall	60	Good	Good	Mortared stone end wall, corrugated metal pipe stream culvert.	No	No			-72.87681557	41.86864256
OF-193	6/21/2022	Stone	Endwall	60	Good	Good	Culvert, stone and wall, approximately 60 -inch corrugated metal pipe, discharging into stream.	No	No			-72.87658201	41.86856228
OF-195	6/21/2022	Concrete	Other	Unknown	Fair	Good	Stone lined square ditch with concrete pipe (of uncertain size) mostly covered by debris.	Maintenance	No			-72.87811813	41.86708387
OF-200	6/21/2022	Concrete	Flared End	18	Good	Fair	Concrete flared and pipe at bottom of sloping terrain down from road the road.	Erosion Control	No	-		-72.88493634	41.8707698
OF-201	6/21/2022	Unknown	Other	Unknown	Poor	Unknown	Discharge end covered, not observed.	Maintenance and Erosion Control	No			-72.88454108	41.86708387
OF-198	6/21/2022	Concrete	Flared End	30	Good	Good	Concrete stream culvert.	No	No			-72.88260072	41.87188021
OF-199	6/21/2022	Concrete	Flared End	30	Good	Good	Concrete, flared end, 30 - inch pipe that runs under road.	No	No			-72.8826097	41.87165278
OF-203	6/21/2022	Concrete	Flared End	24	Good	Good	24 -inch concrete, flared end.	No	No			-72.88852062	41.8688031



### Town of Canton 2022 Dry Weather Inspections

Outfall ID	Inspection Date	Material	Subtype	Diameter (Inches)	Condition	Erosion Control	Notes	Maintenance Or Erosion Control Needed?	lillicit Discharge?	Illicit Discharge Flow Type	Illicit Discharge Description	Longitude	Latitude
OF-202	6/21/2022	Concrete	Flared End	24	Poor	Good	Half filled in. Concrete, flared end, 24- inch pipe that runs under road. Rip rap present and discharges into stream that is currently standing water.	Maintenance and Erosion Control	No			-72.88833197	41.86877635
OF-204	6/21/2022	Concrete	Flared End	16	Good	Good	Concrete, flared end. Deadend road discharges to wooded area.	No	No			-72.89065861	41.87085007
OF-205							Could not locate.		No			-72.8885835	41.86686311
OF-211	6/21/2022	Clay	Endwall	12	Poor	Poor	12 -inch clay pipe cracked, half full of sediment. Stone stacked headwall.	Maintenance and Erosion Control	No			-72.89261694	41.86374562
OF-210	6/21/2022	Concrete	Other	Unknown	Poor	Poor	95% sediment filled, concrete pipe.	Maintenance and Erosion Control	No			-72.89651563	41.8633576
OF-209	6/21/2022	Concrete	Other	14	Poor	Poor	Concrete. 100% filled with leaves and sediment.	Maintenance and Erosion Control	No			-72.89777327	41.86364527
OF-135	6/21/2022	Clay	Endwall	23	Fair	Fair	23 -inch clay pipe in stone end wall, (6- inch pvc pipe entering catch basin). Discharges into stream that leads to Collinsville dam.	Maintenance and Erosion Control	No			-72.92685173	41.81145482
OF-139	6/21/2022	Stone	Endwall		Good	Good	Stone culvert, stream runs under road, no pipe.	No	No			-72.92638461	41.81232524
OF-138	6/21/2022	Stone	Other	30	Fair	Good	30 by 36 stone box culvert, stream crossing .	Maintenance	No			-72.92654631	41.81239219
OF-134	6/21/2022	Concrete	Endwall	Unknown	Poor	Poor	Concrete end wall, stream culvert pipe filled 80%.	Maintenance and Erosion Control	No			-72.93228654	41.82161783
OF-221	6/21/2022	Concrete	Endwall	Unknown	Poor	Poor	Pipe in headwall, stream flows into pipe to cross under road. 70% filled with debris and leaves.	Maintenance and Erosion Control	No			-72.93229552	41.82161783
OF-219	6/21/2022	Concrete	Endwall	30	Fair	Fair	30 -inch concrete pipe culvert, stream enters here and flows under road. Water that enters is reddish with iron.	Maintenance and Erosion Control	No			-72.93068754	41.82103541
OF-220	6/21/2022	Concrete	Endwall	24	Good	Good	Stream culvert.	No	No			-72.93060669	41.82094168



### Town of Canton 2022 Dry Weather Inspections

Outfall ID	Inspection Date	Material	Subtype	Diameter (Inches)	Condition	Erosion Control	Notes	Maintenance Or Erosion Control Needed?	lillicit Discharge?	Illicit Discharge Flow Type	Illicit Discharge Description	Longitude	Latitude
OF-212	6/21/2022	Concrete	Endwall	16	Fair	Good	16- inch concrete pipe at head wall. Surface water enters here and runs under road. Rocks partly block the pipe, and bottom is filled with approximately 20% of sediment.	Maintenance	No			-72.93013058	41.82452316
OF-128	6/21/2022	HDPE	Flared End	10	Excellent	Good	18 -inch pipe discharge to rocky drainage swale.	No	No			-72.92962753	41.82430895
OF-212	6/21/2022	Concrete	Endwall	18	Fair	Fair	Not attached to catch basin. Appears to be diverted via hdpe pipe along road to additional catch basins. 18-inch concrete pipe, mortared stone end wall , pipe end half full.	Maintenance and Erosion Control	No		-	-72.93013058	41.82452316
OF-130	6/21/2022	HDPE	Flared End	16	Good	Good	HDPE angularly cut pipe discharges off slope onto boulders.	No	No			-72.93055279	41.82562099
OF-124	6/21/2022	Concrete	Flared End	30	Good	Fair	Concrete flared end, 30 - inch pipe	Erosion Control	No			-72.93057076	41.83208042
OF-123	6/21/2022	Concrete	Flared End	18	Good	Good	18- inch concrete pipe receive storm water from road basins and discharges to wet area.	No	No			-72.92971736	41.83054762
OF-122	6/21/2022	Concrete	Other	16	Fair	Fair	16 -inch concrete pipe. Standing water in front of pipe.	Maintenance and Erosion Control	No			-72.93219671	41.83509906
OF-121	6/21/2022	Concrete	Flared End	16	Good	Good	Dry, low area yard drain, discharge to low, wet area at OF-122.	No	No			-72.93255603	41.83524631
OF-127	6/21/2022	Corrugated Steel	Endwall	16	Good	Good	Corrugated metal pipe exiting concrete bridge wall.	No	No			-72.92821717	41.82440267
OF-223	6/21/2022	Concrete	Other	20	Good	Good	20 -inch concrete pipe on steeply sloping terrain down from road, riprap present.	No	No			-72.9324123	41.82538001
OF-131	6/21/2022	Concrete	Other	18	Fair	Poor	End section dislodged due to erosion . Receives storm water from 4 basins.	Maintenance	No			-72.93282553	41.82712044



### Town of Canton 2022 Dry Weather Inspections

Outfall ID	Inspection Date	Material	Subtype	Diameter (Inches)	Condition	Erosion Control	Notes	Maintenance Or Erosion Control Needed?	lillicit Discharge?	Illicit Discharge Flow Type	Illicit Discharge Description	Longitude	Latitude
OF-133	6/21/2022	Concrete	Endwall	18	Good	Good	18 -inch concrete outfall. Cement block endwall.	No	No			-72.93366096	41.82173833
OF-214	6/21/2022	HDPE	Other	12	Good	Good	12- Inch HDPE pipe where surface water enters (from residential pvc pipes) to go under the road.	No	No			-72.93381368	41.8167106
OF-215	6/21/2022	Concrete	Other	18	Poor	Poor	Pipe extends 50 -feet behind house -2 sections disconnected.	Maintenance and Erosion Control	No			-72.93340943	41.81661017
OF-142	6/21/2022	Plastic	Endwall	16	Good	Good	Corrugated plastic pipe, set in concrete box drain.	No	No			-72.92797463	41.81413967
OF-143	6/21/2022	Concrete	headwall	20	Good	Good	Concrete drain cast in place headwall, flow received from box drain from across road.	No	No			-72.92791174	41.81402586
OF-140	6/21/2022	Concrete	Endwall	18	Good	Good	Concrete endwall with concrete 18- inch pipe, natural cobble sized rocks leading down slope.	No	No			-72.92858548	41.81303495
OF-137	6/21/2022	Concrete	Endwall	18	Good	Good	18 -inch concrete endwall, discharges to Farmington river.	No	No			-72.92578274	41.8091783



Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Outfall
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# PHOTOGRAPHIC LOG Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108 Client Name: Town of Canton Site Location: Town of Canton MS4 Outfalls-Dry Weather Inspections Date: 2022

Outfall ID OF-6	

Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Outfall
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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name:Site Location:Date:Town of CantonTown of Canton MS4 Outfalls-Dry Weather Inspections2022







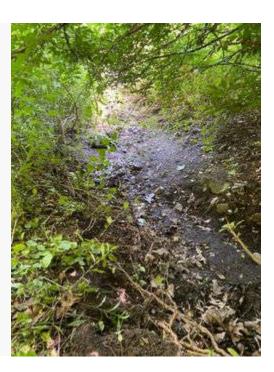


Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name:Site Location:Date:Town of CantonTown of Canton MS4 Outfalls-Dry Weather Inspections2022







Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Outfall
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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Outfall
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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name:Site Location:Date:Town of CantonTown of Canton MS4 Outfalls-Dry Weather Inspections2022







# PHOTOGRAPHIC LOG Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108 Client Name: Town of Canton Site Location: Town of Canton MS4 Outfalls-Dry Weather Inspections Date: 2022

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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Outfall
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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name:Site Location:Date:Town of CantonTown of Canton MS4 Outfalls-Dry Weather Inspections2022







Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name:Site Location:Date:Town of CantonTown of Canton MS4 Outfalls-Dry Weather Inspections2022



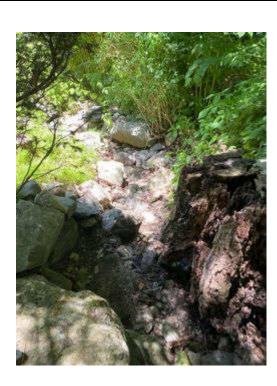




Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Outfall
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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name:Site Location:Date:Town of CantonTown of Canton MS4 Outfalls-Dry Weather Inspections2022







## PHOTOGRAPHIC LOG Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108 Client Name: Site Location: Date:

2022

Town of Canton MS4 Outfalls-Dry Weather Inspections

Town of Canton

Outfall ID	
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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name:Site Location:Date:Town of CantonTown of Canton MS4 Outfalls-Dry Weather Inspections2022







Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name:Site Location:Date:Town of CantonTown of Canton MS4 Outfalls-Dry Weather Inspections2022







Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Outfall
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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name:Site Location:Date:Town of CantonTown of Canton MS4 Outfalls-Dry Weather Inspections2022







Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name:Site Location:Date:Town of CantonTown of Canton MS4 Outfalls-Dry Weather Inspections2022





#### PHOTOGRAPHIC LOG Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108 Client Name: **Site Location:** Date: Town of Canton MS4 Outfalls-Dry Weather Inspections 2022

Town of Canton

Outfall ID OF-167	

Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name:Site Location:Date:Town of CantonTown of Canton MS4 Outfalls-Dry Weather Inspections2022







Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



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#### PHOTOGRAPHIC LOG Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108 Client Name: **Site Location:** Date: Town of Canton MS4 Outfalls-Dry Weather Inspections 2022

Town of Canton

Outfall ID OF-56	
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## PHOTOGRAPHIC LOG Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108 Client Name: Site Location: Date:

2022

Town of Canton MS4 Outfalls-Dry Weather Inspections

Town of Canton

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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Outfall
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# PHOTOGRAPHIC LOG Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108 Client Name: Site Location: Date:

2022

Town of Canton MS4 Outfalls-Dry Weather Inspections

Town of Canton

Outfall ID	
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OF-172	

Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name:Site Location:Date:Town of CantonTown of Canton MS4 Outfalls-Dry Weather Inspections2022







Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Outfall
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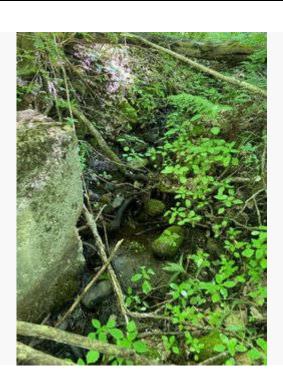




Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name:Site Location:Date:Town of CantonTown of Canton MS4 Outfalls-Dry Weather Inspections2022







Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Outfall ID
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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Outfall ID
OF-186





Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name:Site Location:Date:Town of CantonTown of Canton MS4 Outfalls-Dry Weather Inspections2022







Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Outfall
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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name:Site Location:Date:Town of CantonTown of Canton MS4 Outfalls-Dry Weather Inspections2022

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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name:Site Location:Date:Town of CantonTown of Canton MS4 Outfalls-Dry Weather Inspections2022





Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Outfall ID
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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Outfall ID
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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name:Site Location:Date:Town of CantonTown of Canton MS4 Outfalls-Dry Weather Inspections2022

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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



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# PHOTOGRAPHIC LOG Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108 Client Name: Site Location: Date:

2022

Town of Canton MS4 Outfalls-Dry Weather Inspections

Town of Canton

Outfall ID OF-188	

Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Outfall ID
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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name:Site Location:Date:Town of CantonTown of Canton MS4 Outfalls-Dry Weather Inspections2022

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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name:Site Location:Date:Town of CantonTown of Canton MS4 Outfalls-Dry Weather Inspections2022





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Client Name:Site Location:Date:Town of CantonTown of Canton MS4 Outfalls-Dry Weather Inspections2022

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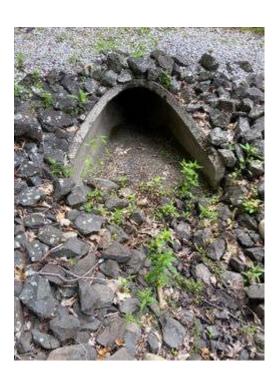




Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name:Site Location:Date:Town of CantonTown of Canton MS4 Outfalls-Dry Weather Inspections2022





Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name:Site Location:Date:Town of CantonTown of Canton MS4 Outfalls-Dry Weather Inspections2022





Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name:Site Location:Date:Town of CantonTown of Canton MS4 Outfalls-Dry Weather Inspections2022







Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



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Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Outfall ID
OF-139





Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name: Town of Canton **Site Location:** 

Town of Canton MS4 Outfalls-Dry Weather Inspections Date: 2022

#### Outfall ID





# PHOTOGRAPHIC LOG Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108 Client Name: Town of Canton Town of Canton MS4 Outfalls-Dry Weather Inspections Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108 Date: 2022

Outfall ID	
OF-134	

Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name: Town of Canton

**Site Location:** 

Town of Canton MS4 Outfalls-Dry Weather Inspections Date: 2022

#### Outfall ID





Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name: Town of Canton

**Site Location:** 

Town of Canton MS4 Outfalls-Dry Weather Inspections Date: 2022

#### Outfall ID







# PHOTOGRAPHIC LOG Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108 Client Name: Town of Canton Site Location: Town of Canton MS4 Outfalls-Dry Weather Inspections Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108 Date: 2022

Outfall
ID
OF-220



Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name: Town of Canton **Site Location:** 

Town of Canton MS4 Outfalls-Dry Weather Inspections Date: 2022

#### Outfall ID





Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name: Town of Canton

**Site Location:** 

Town of Canton MS4 Outfalls-Dry Weather Inspections Date: 2022

#### Outfall ID





Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name: Town of Canton **Site Location:** 

Town of Canton MS4 Outfalls-Dry Weather Inspections Date: 2022

#### Outfall ID





Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name: Town of Canton

**Site Location:** 

Town of Canton MS4 Outfalls-Dry Weather Inspections Date: 2022

#### Outfall ID







Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108

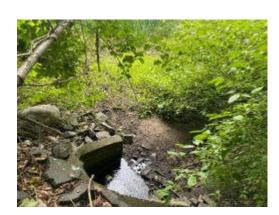


Client Name: Town of Canton

**Site Location:** 

Town of Canton MS4 Outfalls-Dry Weather Inspections Date: 2022

#### Outfall ID







Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name: Town of Canton

Site Location:

Town of Canton MS4 Outfalls-Dry Weather Inspections **Date:** 2022

#### Outfall ID







# PHOTOGRAPHIC LOG Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108 Client Name: Town of Canton MS4 Outfalls-Dry Weather Inspections Weather Inspections

Town of Canton	Weather Inspections	2022
Outfall ID OF-122		

Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name: Town of Canton

**Site Location:** 

Town of Canton MS4 Outfalls-Dry Weather Inspections Date: 2022

#### Outfall ID





Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name: Town of Canton

**Site Location:** 

Town of Canton MS4 Outfalls-Dry Weather Inspections Date: 2022

#### Outfall ID







Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name: Town of Canton

**Site Location:** 

Town of Canton MS4 Outfalls-Dry Weather Inspections Date: 2022

#### Outfall ID





Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name: Town of Canton **Site Location:** 

Town of Canton MS4 Outfalls-Dry Weather Inspections Date: 2022

#### Outfall ID





Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name: Town of Canton

**Site Location:** 

Town of Canton MS4 Outfalls-Dry Weather Inspections Date: 2022

#### Outfall ID





Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name: Town of Canton

**Site Location:** 

Town of Canton MS4 Outfalls-Dry Weather Inspections Date: 2022

#### Outfall ID







Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name: Town of Canton

**Site Location:** 

Town of Canton MS4 Outfalls-Dry Weather Inspections Date: 2022

#### Outfall ID





Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name: Town of Canton

**Site Location:** 

Town of Canton MS4 Outfalls-Dry Weather Inspections Date: 2022

#### Outfall ID







# PHOTOGRAPHIC LOG Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108 Client Name: Town of Canton Site Location: Town of Canton MS4 Outfalls-Dry Weather Inspections Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108 Date: 2022

Outfall ID OF-143	

Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name: Town of Canton

**Site Location:** 

Town of Canton MS4 Outfalls-Dry Weather Inspections Date: 2022

#### Outfall ID







Atlas Technical Consultants, LLC 290 Roberts Street, Suite 301 East Hartford, CT 06108



Client Name: Town of Canton **Site Location:** 

Town of Canton MS4 Outfalls-Dry Weather Inspections Date: 2022

#### Outfall ID





## ATTACHMENT III

## **Town of Canton MS4 Dry Weather Sampling**

Analytical Results

					Screening	Indicators				
Outfall ID	Inspection	Condition	Discharge Description	Chlorine Residual	Ammonia as Nitrogen	MBAS	Conductivitiy	Salinity	Escherichia	Total
	Date						<u> </u>	<u> </u>	Coli	Coliforms
					mg/L		umhos/cm	ppt	MPN/10	00mL
OF-26	6/20/22	Good	Clear flow, iron staining	<0.02	<0.05	<0.05	378	<0.5	<10	529
OF-192	6/20/22	Excellent	Clear, foam on surface, no odor, steady flow 3-5 gpa	<0.02	<0.05	<0.05	240	<0.5	309	5,790

### **Notes:**

\* All highlighted bacterial concentrations are required for follow-up investigations.

\*Highlighting is based on the following criteria;

- 1. E. Coli >235/100mL for Swimming Areas, and >410 col/100mL for all others.
- 2. Total Coliform > 500 col/100mL
- 3. Fecal Coliform >31 col/100 mL for Class SA and >260 col/100mL for Class SB
- 4. Enterococci >104 col/100mL for Swimming Areas and >500 col/100mL for all others.
- 5. Ammonia >0.5 mg/L
- 6. Surfactants (MBAS) > 0.25 mg/L
- 7. Chlorine: detectable level
- 8. Conductivity >1,500 uS
- 9. Salinity ≥ 0.5 ppt





Thursday, July 14, 2022

Attn: Kay Lehoux ATC Associates 290 Roberts St., Suite 301 East Hartford, CT 06108

Project ID: CANTON SDG ID: GCL59985

Sample ID#s: CL59985 - CL59986

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis/Shiller

**Laboratory Director** 

NELAC - #NY11301

CT Lab Registration #PH-0618

MA Lab Registration #M-CT007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

UT Lab Registration #CT00007

VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



## **SDG Comments**

July 14, 2022

SDG I.D.: GCL59985

Reported Total Coliform



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## Sample Id Cross Reference

July 14, 2022

SDG I.D.: GCL59985

Project ID: CANTON

Client Id	Lab Id	Matrix
OF-26	CL59985	SURFACE WATER
OF-192	CL59986	SURFACE WATER



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## **Analysis Report**

July 14, 2022

FOR: Attn: Kay Lehoux

**ATC Associates** 

290 Roberts St., Suite 301 East Hartford, CT 06108

Sample Information

Matrix: SURFACE WATER

Location Code: ATC-EHDAS

Rush Request: Standard

P.O.#:

Custody Information

Collected by:

Analyzed by:

Received by: SW

SW

see "By" below

06/20/22 06/20/22

Date

10:20 16:45

Time

00,20,22

Phoenix ID: CL59985

Laboratory Data SDG ID: GCL59985

Project ID: CANTON Client ID: OF-26

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Escherichia Coli	<10	10	MPN/100 mls	10	06/20/22 18:00	GS/LJ	SM9223B-16
Total Coliforms	529	10	MPN/100 mls	10	06/20/22 18:00	GS/DT	SW9223B-16
Chlorine Residual	< 0.02	0.02	mg/L	1	06/20/22 18:35	AKS	SM4500CI-G-00
Conductivity	378	5.00	umhos/cm	1	06/20/22	MW/EG	SM2510B-11
MBAS	< 0.05	0.05	mg/L	1	06/20/22 20:46	AKS	SM5540 C-11
Ammonia as Nitrogen	< 0.05	0.05	mg/L	1	06/23/22	KDB	E350.1
Salinity	< 0.5	0.5	ppt	1	06/20/22	PK	SM2520B-10

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### **Comments:**

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

July 14, 2022

Reviewed and Released by: Sarah Bell, Project Manager



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## **Analysis Report**

July 14, 2022

FOR: Attn: Kay Lehoux

**ATC Associates** 

290 Roberts St., Suite 301 East Hartford, CT 06108

Sample InformationCustody InformationDateTimeMatrix:SURFACE WATERCollected by:06/20/2215:40Location Code:ATC-EHDASReceived by:SW06/20/2216:45

Rush Request: Standard Analyzed by: see "By" below

P.O.#:

Laboratory Data SDG ID: GCL59985

Phoenix ID: CL59986

Project ID: CANTON Client ID: OF-192

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time By Ref	ference
Escherichia Coli	309	10	MPN/100 mls	10	06/20/22 18:00 GS/LJ SMS	9223B-16
Total Coliforms	5790	10	MPN/100 mls	10	06/20/22 18:00 GS/DT SW	9223B-16
Chlorine Residual	< 0.02	0.02	mg/L	1	06/20/22 18:36 AKS SM4	4500CI-G-00
Conductivity	240	5.00	umhos/cm	1	06/20/22 MW/EG SM2	2510B-11
MBAS	< 0.05	0.05	mg/L	1	06/20/22 20:47 AKS SM5	5540 C-11
Ammonia as Nitrogen	< 0.05	0.05	mg/L	1	06/23/22 KDB E35	0.1
Salinity	< 0.5	0.5	ppt	1	06/20/22 PK SM2	2520B-10

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### **Comments:**

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

July 14, 2022

Reviewed and Released by: Sarah Bell, Project Manager



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## QA/QC Report

July 14, 2022

## QA/QC Data

SDG I.D.: GCL59985

Parameter	Blank	B <b>l</b> k RL	Sample Result	Dup Resu <b>l</b> t	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 629806 (umhos/ci	n), QC	Sample	No: CL5	9845 (C	L59985	, CL59	986)						
Conductivity Comment:	BRL	5.00	163	163	0	95.6						85 - 115	20
Additional criteria matrix spike acce	eptance	range is	75-125%.										
QA/QC Batch 629766 (mg/L), Q	C Samp	ole No: (	CL59985	(CL5998	35, CL5	9986)							
MBAS Comment:	BRL	0.05	<0.05	<0.05	NC	90.4			88.2			85 - 115	20
Additional criteria matrix spike acce	eptance	range is	75-125%.										
QA/QC Batch 629990 (mg/L), Q	C Samp	ole No: (	CL59073	(CL5998	35, CL5	9986)							
Ammonia as Nitrogen	BRL	0.05	<0.10	<0.10	NC	99.0			98.0			90 - 110	20
QA/QC Batch 629747 (mg/L), Q	C Samp	ole No: (	CL59608	(CL5998	35, CL5	9986)							
Chlorine Residual	BRL	0.02	<0.02	<0.02	NC	97.9							

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis/Shiller, Laboratory Director

July 14, 2022

Thursday, July 14, 2022

Criteria: CT: GWP State: CT

Sample Criteria Exceedances Report

GCL59985 - ATC-EHDAS

e Phoenix Analyte

Criteria

Analysis Units

RL Criteria

귐

Result

SampNo Acode
\*\*\* No Data to Display \*\*\*

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. Client: ATC Associates

Project Location: CANTON Project Number:

Laboratory Sample ID(s): CL59985, CL59986 Sampling Date(s): 6/20/2022

List RCP Methods Used (e.g., 8260, 8270, et cetera) None

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	✓ Yes □ No
1A	Were the method specified preservation and holding time requirements met?	✓ Yes □ No
1B	<b>VPH and EPH methods only:</b> Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐ Yes ☐ No ✓ NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	✓ Yes □ No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	☐ Yes ☑ No ☐ NA
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	✓ Yes □ No
5	a) Were reporting limits specified or referenced on the chain-of-custody?	✓ Yes □ No
	b) Were these reporting limits met?	✓ Yes □ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes <b>☑</b> No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing t nformation contained in this analytical report, such information is accurate and complete.	he
Authorized Signature: Than Lee Position: Project Manager	:
Printed Name: Ethan Lee Date: Thursday, July 14, 2022	:
Name of Laboratory Phoenix Environmental Labs, Inc.	

This certification form is to be used for RCP methods only.



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



## RCP Certification Report

July 14, 2022 SDG I.D.: GCL59985

#### **SDG Comments**

Temperature above 6C:

The samples were received in a cooler with ice packs. The samples were delivered to the Laboratory within a short period of time after sample collection. Therefore no significant bias is suspected.

No RCP analyses are included with this report. The RCP narrative is provided at the request of the client.

#### Wet Chemistry Analysis

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

#### Instrument:

#### **BECKMAN DU720 06/20/22-1** Shawn Akomeah, Chemist 06/20/22

CL59985, CL59986

The initial calibration met all criteria including a standard run at the reporting level.

All method verification standards and blanks met criteria.

#### QC (Batch Specific):

#### Batch 629806 (CL59845)

CL59985, CL59986

All LCS recoveries were within 85 - 115 with the following exceptions: None.

Additional criteria matrix spike acceptance range is 75-125%.

#### QC (Site Specific):

#### Batch 629766 (CL59985)

CL59985, CL59986

All LCS recoveries were within 85 - 115 with the following exceptions: None.

All MS recoveries were within 75 - 125 with the following exceptions: None.

Additional criteria matrix spike acceptance range is 75-125%.

#### **NITROGEN**

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

#### Instrument:

#### LACHAT 06/23/22-1

Kandi Della Bella, Chemist 06/23/22

CL59985, CL59986

The initial calibration met all criteria including a standard run at the reporting level.

All method verification standards and blanks met criteria.

#### QC (Batch Specific):

### Batch 629990 (CL59073)

CL59985, CL59986

All LCS recoveries were within 85 - 115 with the following exceptions: None.



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## **RCP Certification Report**

July 14, 2022 SDG I.D.: GCL59985

#### **NITROGEN**

Additional criteria: LCS acceptance range for waters is 85-115% and for soils is 75-125%. MS acceptance range is 75-125%.

#### Temperature Narration

The samples were received at 9.1C with cooling initiated. (Note acceptance criteria for relevant matrices is above freezing up to  $6^{\circ}$ C)

									Coolant:	Cooler: Yes No
				<u></u>	IAIN OF (	CHAIN OF CUSTODY RECORD	RECORD		PdmeT	°C Pg of
Environmental Laboratories.	MX saboratories.	Inc.		587 East Mi Email:	East Middle Turnpike, P.O. Box Email: info@phoenixlabs.com	P.O. Box 370,	587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040 Email: info@phoenixlabs.com Fax (860) 645-0823		Data Delivery Fax: Phone:	Data Delivery/Contact Options:
	•				Client Ser	Client Services (860)	042-8/20	X	Email: kay.lehoux	kay.lehoux@oneatlas.com
Customer: Atlas					Project:	اند	Canton		Project P.O.	
Address: 290 Robe	290 Roberts Street				Report to:	to:	Kay Lehoux	×	Th	This section MUST be
East Hart	East Hartford, CT 06108				Invoice to:	) to:	Atlas			completed with
					QUOTE#	#	CTDAS		<b>→</b>	Bottle Quantities. ↓ ↓ ↓
Client San	Client Sample - Information - Identification	- Identifica	tion				////			
Sampler's Signature			Date		Analysis				Oct.	lugooi tosiri
Matrix Code: Difference Water SW=Surface Water WW=Water Water.	ound Water SW=Su	rface Wate	r ww=wast	e Water	Nednesi				Z Toley	14003 1+ 1003 00 10 10 10 10 10 10 10 10 10 10 10 10
KW=Raw vater SE=Sedimer B=Bulk L=Liquid	c- <b>c</b> afonic=7 <b>c</b> 1.	06- <b>06</b> 110	diva-			1		CHIM TO		140
NILY	Customer Sample	Sample	Date	Time	Siloui Siloui	A TO		ALOCAS POLICE	\$105/W	Photo electrical states
, , , , ,	딑	Matrix	Sampled	Sampled	3 <del> </del> -	\$\frac{1}{2}			(S)	
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24486 01	701	3	12/07/0	15 40	× ×	× × ×			~	
	:									
			į							
Reliquis 0 by:	Accepted by				Date:	Time:		티	MA	Data Format
	lun	nn	14		22/12/	1645	Direct Exposure (Residential)	RCP Cert	MCP Certification	Excel
					,		GW	SW Protection	GW-2	☐ GIS/Key
							Other	GA Mobility	☐ GW-3	EQuIS
Comments, Special Requirements or Regulations	ments or Regulatio	ns:			Turnaround:			GB Mobility	S-1	Data Package
CTDAS Rates								Residential DEC	8-7 S-3	☐ Tier II Checklist ☐ Full Data Package*
					3 Days*			Other	☐ MWRA eSMART ☐ Other	Phoenix Std Report Other
					Other	F APPI IES	State where sa	State where samples were collected:	cted: CT	- * SURCHARGE APPLIES

## Town of Canton:

## 2022 Bacteria Sampling

	6			no totale	1	Bacterial				
ID	Sampling Date	Latitude	Longitude	Proximity to Location	Landmark/Facility Name	Escheriachia Coli	<b>Total Coliforms</b>			
				Location	Nume	MPN/1				
	6/6/2022					53.6	913.9			
	6/20/2022	-				44.3	1732.9			
CB-28	7/11/2022	41.83616	-72.929891	ds	Rt 44	53.8 83.9	2419.6			
CB-28	7/25/2022 8/8/2022	41.83010	-72.929891	us	Kt 44	83.9 <b>816.4</b>	>2419.6 >2419.6			
	8/22/2022	-				49.5	>2419.6			
	9/7/2022	-				1553.1	>2419.6			
	6/6/2022					93.8	960.6			
	6/21/2022	1				101.9	387.3			
	7/11/2022	-				95.9	1986.3			
CB-1200	7/25/2022	41.84525	-72.92519	at	84 cherry brook rd	63.8	>2419.6			
	8/8/2022					816.4	>2419.6			
	8/22/2022	1				88.2	>2419.6			
	9/7/2022					1732.9	>2419.6			
	6/6/2022					113.7	1011.2			
	6/20/2022					86.2	>2419.6			
	7/11/2022					178.2	2419.6			
CB-2330	7/25/2022	41.8531	-72.92006	ds	Humphrey Rd	115.3	>2419.6			
	8/8/2022					2419.6	>2419.6			
	8/22/2022					35.9	>2419.6			
	9/7/2022					1732.9	>2419.6			
	6/6/2022					196.8	1011.2			
	6/20/2022					121.1	>2419.6			
	7/11/2022					79.4	>2419.6			
CB-3220	7/25/2022 8/8/2022	41.85869	-72.91335	us	Barbourtown Rd	166.4	>2419.6			
						1413.6	>2419.6			
	8/22/2022					108.6	>2419.6			
	9/7/2022					1413.6	>2419.6			
			-72.91323	ds	Culvert on Barbourtown					
	6/6/2022				Rd at Jehovah's	85.7	1011.2			
					Witnesses of Canton					
	6/20/2022	1				60.2	1986.3			
BA-73	7/11/2022	41.86054				344.8	>2419.6			
	7/25/2022				Barbourtown Rd	365.4	>2419.6			
	8/8/2022					816.4	>2419.6			
	8/24/2022					2419.0	>2419.6			
	9/7/2022					1046.2	>2419.6			
	6/6/2022					5.2	829.7			
	6/20/2022		-72.9239			5.2	1413.6			
	7/11/2022	41.87683				13.4	>2419.6			
BA-2350	7/25/2022			ds	Barbourtown Rd	71.2	>2419.6			
	8/8/2022					1203.3	>2419.6			
	8/24/2022					2419.0	>2419.6			
	9/7/2022					1986.3	>2419.6			
	6/6/2022					17.3	755.6			
	6/20/2022	]				17.5	1413.6			
	7/11/2022	]				816.4	>2419.6			
CB-5290	7/25/2022	41.87327	-72.906293	at	West Rd	17.1	>2419.6			
	8/8/2022	]				517.2	>2419.6			
	8/22/2022	]				260.3	>2419.6			
	9/7/2022					770.1	>2419.6			
	6/6/2022	]			Ι Τ	416.0	960.6			
	6/20/2022					214.3	>2419.6			
	7/11/2022					816.4	>2419.6			
CB-4140	7/25/2022	41.86497	-72.90848	ds	Meadow Rd	1986.3	>2419.6			
	8/8/2022					2419.6	>2419.6			
	8/22/2022	4				2419.6	>2419.6			
	9/7/2022					1299.7	>2419.6			
	6/6/2022	1				172.6	960.6			
	6/20/2022	4				151.5	1732.9			
<b>a.</b>	7/11/2022	]			1	155.3	>2419.6			
CB-8560	7/25/2022	41.89439	-72.89397	at	NCVFA Firehouse	62.4	>2419.6			
	8/8/2022	-				1732.9	>2419.6			
	8/22/2022					54.5	>2419.6			
	9/7/2022					816.4	>2419.6			



## Town of Canton:

## 2022 Bacteria Sampling

	6/6/2022					7.5	870.4
	6/20/2022					13.4	1299.7
	7/11/2022					10.9	1203.3
SB-370	7/25/2022	41.89815	-72.892739	us	culvert at Church	17.3	>2419.6
	8/8/2022					79.8	1986.3
	8/22/2022					13.2	>2419.6
	9/7/2022					1203.3	>2419.6
	6/6/2022			ds		4.1	755.6
	6/20/2022	41.90968	-72.8992		Cherry Brook Rd RT 179	22.3	>2419.6
CD 10540	7/11/2022					77.1	2419.6
CB-10540	7/25/2022					95.9	>2419.6
	8/8/2022					135.4	>2419.6
	8/22/2022					98.8	>2419.6
	9/7/2022					816.4	>2419.6
	6/6/2022					1.0	829.7
	6/20/2022					15.8	2419.6
UN 10F0	7/11/2022	41 07610	72 00024		Charmy Drook Dd DT 170	7.5	2419.6
UN-1050	7/25/2022	41.87618	-72.89831	us	Cherry Brook Rd RT 179	16.0	>2419.6
	8/8/2022					1553.1	>2419.6
	8/22/2022					98.8	>2419.6
	9/7/2022					1413.6	>2419.6

## Notes:

- 1. E. Coli >235/100mL for Swimming Areas, and >410 col/100mL for all others.
- 2. Total Coliform > 500 col/100mL
- 3. Fecal Coliform >31 col/100 mL for Class SA and >260 col/100mL for Class SB
- 4. Enterococci >104 col/100mL for Swimming Areas and >500 col/100mL for all others.
- \*ds downstream, us upstream, at At



<sup>\*</sup> All highlighted bacterial concentrations are required for follow-up investigations at associated outfall.

<sup>\*</sup>Highlighting is based on the following criteria;

## Town of Canton: 2022 Nutrient Sampling

				Nutrients											
ID	Sampling Date	Latitude	Longitude	Ammonia as N	Nitrogen Oxides (NO <sub>x</sub> )	Total Nitrogen	Total Dissolved Nitrogen	Total Phosphorus	Total Dissolved Phosphorus	Total Kdjedhal Nitrogen (TKN)					
				mg/L											
CB-28	6/21/2022	41.836164	-72.929891	0.007	0.385	0.446	0.413	0.018	0.022	0.061					
CD-20	8/22/2022	41.830104	-72.929891	0.004	0.501	0.562	0.540	0.016	0.011	0.061					
CB-1200	6/21/2022	41.84525	-72.92519	0.017	0.358	0.425	0.419	0.017	0.018	0.067					
CB-1200	8/22/2022	41.04525	-72.92519	0.006	0.454	0.519	0.495	0.016	0.006	0.065					
CB-2330	6/21/2022	41.8531	-72.92006	0.029	0.354	0.444	0.42	0.02	0.014	0.09					
CB-2330	8/22/2022	41.0551	-72.92006	0.025	0.560	0.707	0.659	0.015	0.012	0.147					
CB-3220	6/21/2022	41.85869	-72.91335	0.045	0.338	0.418	0.4	0.02	0.013	0.08					
CD-3220	8/22/2022	41.05009	-72.91555	0.011	0.950	1.030	1.030	0.016	0.010	0.080					
CB-4140	6/21/2022	41.86497	-72.90848	0.012	0.308	0.39	0.362	0.012	0.011	0.082					
CB-4140	8/22/2022	41.00497	-72.90040	0.268	0.066	1.080	0.872	0.064	0.023	1.014					
CB-5290	6/21/2022	41.873272	-72.906293	0.005	0.235	0.301	0.302	0.013	0.011	0.066					
CB-3290	8/22/2022	41.0/32/2	-72.900293	0.007	0.201	0.259	0.262	0.013	0.013	0.058					
CB-8560	6/21/2022	41.89439	-72.89397	0.019	0.219	0.317	0.31	0.017	0.013	0.098					
CB-6300	8/22/2022	41.09459	-72.09597	0.172	0.014	0.287	0.271	0.029	0.018	0.273					
CB-10540	6/21/2022	41.90968	-72.8992	0.006	0.354	0.463	0.385	0.019	0.012	0.109					
CB-10340	8/22/2022	41.90908	-72.6992	0.012	1.845	1.910	1.830	0.014	0.012	0.065					
BA-73	6/21/2022	41.86054	-72.91323	0.011	0.135	0.215	0.206	0.014	0.018	0.08					
BA-2350	6/21/2022	41.87683	-72.9239	0.011	0.055	0.153	0.16	0.02	0.02	0.098					
SB-370	6/21/2022	44 000446	72.002722	0.009	0.144	0.288	0.257	0.022	0.016	0.144					
38-370	8/22/2022	41.898146	-72.892739	0.003	0.483	0.600	0.550	0.035	0.015	0.117					
UN-1050	6/21/2022	41.87618	-72.89831	0.009	0.433	0.486	0.497	0.012	0.014	0.053					
014-1030	8/22/2022	41.0/010	-72.03031	0.010	0.458	0.498	0.482	0.015	0.012	0.040					

## Notes:

\* All highlighted bacterial concentrations are required for follow-up investigations at associated outfall.

\*Highlighting is based on the following criteria;

1. Ammonia: >0.5 mg/L

2. Surfactants (MBAS): > 0.25 mg/L

3. Chlorine: detectable level

4. Conductivity: >1,500 uS

5. Salinity: ≥ 0.5 ppt

6.Total phosphorus > 0.3 mg/l

7. Total nitrogen > 2.5 mg/l



## Town of Canton: 2022 Chlorine Sampling

						General Parameters									
ID	Sampling Date	Latitude	Longitude	Proximity to Location	Location Description	Chloride (ppm)	NaCL (%)	Conductivity (uS/cm)	Specific Conductivity (uS/cm)	Salinity (psu)	Total Dissolved Solids (mg/L)	Turbidty (NTU)	Chlorine (mV)		
BA-73	11/1/2022	41.86063	-72.91324	us	culvert on Barbourtown Rd	25	0.004	97.3	124.8	0.06	81	0.4	141.5		
	1/13/2022	41.85866	-72.91343	ds	Barbourtown Rd bridge by CBP School	32	0.005								
	1/19/2022	41.85866	-72.91343	ds	Barbourtown Rd bridge by CBP School	less	less								
	3/21/2022	41.85866	-72.91343	ds	Barbourtown Rd bridge by CBP School	less	less	77.2	114.9	0.05	12,955.0	97.7			
CB-3220	5/27/2022	41.85866	-72.91343	ds	Barbourtown Rd bridge by CBP School	less	0.005	97.9	117	0.05	10,211.4	94.3	37		
CB-3220	6/22/2022	41.85866	-72.91343	ds	Barbourtown Rd bridge by CBP School	less	less	101.5	123.7	0.06	9,852.2	87.9	22		
	7/19/2022	41.85866	-72.91343	ds	Barbourtown Rd bridge by CBP School	29	0.005	142.1	142.5	0.07	7,039.8	95.9	50		
	8/16/2022	41.85866	-72.91343	ds	Barbourtown Rd bridge by CBP School	43	0.007	216.2	236.2	0.11	4,625.8	114.2	69		
	11/1/2022	41.85866	-72.91343	ds	Barbourtown Rd bridge by CBP School	29	0.005	65.1	85.1	0.04	55.0	1.04	138.1		
	1/13/2022	41.82165	-72.88339	at	Shops at Farmington Valley	65	0.011					1			
	1/19/2022	41.82165	-72.88339	at	Shops at Farmington Valley	65	0.011								
	3/21/2022	41.82165	-72.88339	at	Shops at Farmington Valley	65	0.011	219.1	315.8	0.15	4,565.0	98.6			
	5/27/2022	41.82165	-72.88339	at	Shops at Farmington Valley	87	0.014	328.5	392.3	0.19	3,044.2	93.8	131		
JB-4120	6/22/2022	41.82165	-72.88339	at	Shops at Farmington Valley	108	0.018	385.1	472.5	0.23	2,596.9	64	144		
	7/19/2022	41.82165	-72.88339	at	Shops at Farmington Valley	108	0.018	425	434.4	0.21	2,352.7	89.7	113		
	8/16/2022	41.82165	-72.88339	at	Shops at Farmington Valley	251	0.041	852.4	957.6	0.47	1,173.2	69.1	243		
	11/1/2022	41.82165	-72.88339	at	Shops at Farmington Valley	290	0.048	891	1110	0.55	721.0	16.89	83.4		
	11/14/2022	41.82165	-72.88339	at	Shops at Farmington Valley	77	0.013	257.5	372.1	0.18	242.0	17.63	157.8		

## Notes:

\*All highlighted bacterial concentrations are required for follow-up investigation at assoicated outfall.

\*Highlighting is based on the following criteria;

1. Ammonia: >0.5 mg/L

2. Surfactants (MBAS): >0.25 mg/L

3. Chlorine: detectable level

4. Conductivity: >1,500 uS

5. Salinity: ≥ 0.5 ppt

6. Turbidity: >5 NTU

\*ds - downstream, us - upstream, at - At



### Town of Canton 2022 Catchment Assessment and Priority Ranking Matrix

	Number of		Previous Screening	Discharging to Area of	Frequency of	Receiving	Density of		Historic									
Catchment ID	Outfalls Included	Receiving Water(s)	Results Indicate Likely Sewer Input? <sup>1</sup>	Concern to Public Health? 2	Past Discharge Complaints	Water Quality <sup>3</sup>	Generating Sites <sup>4</sup>	Age of Development/ Infrastructure 5	Combined Sewers or Septic? <sup>6</sup>	Aging Septic?	Culverted Streams? <sup>8</sup>	Additional Characteristics	Sewer Repair/Failure Nearby?	Urbanized Area	DCIA >11% <sup>9</sup>	Impaired Waterbody		Priority Ranking
Inf	ormation Source	ce	Catchment inspections and sample results	GIS Maps	Municipal Staff	Impaired Waters List	Land Use/GIS Maps, Aerial Photography	Land Use Information, Visual Observation	Municipal Staff, GIS Maps	Land Use, Municipal Staff	GIS and Storm System Maps	Other	Municipal Staff, GIS Maps	CLEAR	CLEAR	CLEAR	Score	Low Priority: 0-5 Problem: 6-9 High Priority: ≥10
:			Yes = 3 (Problem Catchment) No = 0		Frequent = 3  Occasional = 2  None = 0	Poor = 3  Fair = 2  Good = 0	High = 3 Medium = 2 Low = 1	High = 3 Medium = 2 Low = 1	Yes = 3 No = 0		Yes = 3 No = 0		Yes=2 No=0		Yes =1 No = 0	Yes =1 No = 0		
4309-00-1	None	Cherry Brook	0	0	0	0	1	3	0		0	Cleared Agricultural farmland with some residential housing	0	0	0	0	4	Low Priority
4319-11-1 4309-01-1	None	Cherry Brook, unnamed streams	0	0	0	0	1	3	0		3	Wooded Cleared agricultural land, some wooded areas with	0	0	0	0	7	Low Priority  Problem
4309-02-1	None	Cherry Brook, Titan's Pond Cherry	3	3	0	0	1	1	0		3	light residential Wooded with light residential housing	0	0	0	0	11	High Priority
4309-00-2-R1	None	Brook,unnamed streams	3	0	0	0	1	1	0		3	Wooded with residential housing	0	0	0	0	8	Problem
4309-00-2-R2	None	Cherry Brook, unnamed streams	3	0	0	0	2	1	0		3	Mainly residential housing with wooded areas.	0	0	0	0	9	Problem
4308-19-2-R1 4308-18-1	None	Unnamed stream  Spruce Brook,	0	0	0	0	1	1	0		0	Wooded area with light residential housing Wooded with light	0	0	0	0	2	Low Priority
4309-03-1	None	unnamed streams Unnamed streams	3	0	0	0	2	1	0		3	residential housing  Residential housing with light cleared agricultural farmland and lightly wooded areas	0	0	0	0	9	Problem
4318-00-1	None	Towards Hop Brook River in Simsbury	0	0	0	0	3	1	0		0	Mainly residential housing with wooded areas.	0	0	0	0	4	Low Priority
4308-18-2-R1	None	Spruce Brook, unnamed streams	0	0	0	0	0	1,	0		0	Wooded area with Ski mountain	0	0	0	0	1	Low Priority
4309-05-1	17	Barbour Brook	0	0	0	0	2	1	0		3	Residential housing with light cleared agricultural farmland and lightly wooded areas	0	0	0	0	6	Problem
4318-04-1-L1	15	Unnamed streams	0	0	0	0	3	2	0		3	Mainly residential housing with lightly wooded areas	0	1	0	0	9	Problem
4309-04-1	6	Unnamed streams	3	0	0	0	3	2	0		3	Mainly residential housing with lightly wooded areas	2	0	0	0	13	High Priority
4300-14-1	16	Unnamed streams	0	0	0	0	2	1	0		3	A mixture of cleared agriculutural farmland and residential housing, as well as lightly wooded areas	0	1	0	0	7	Problem
4309-00-2-R4	2	Cherry Brook, unnamed streams	3	0	0	3	1	1	0		3	Mainly cleared agricultural farmland with light residential housing and wooded areas	0	0	0	3	14	High Priority
4318-04-1	None	Towards Od Reservoir in Simsbury Towards Hallman	0	0	0	0	0	0	0		0	Wooded	0	1	0	0	1	Low Priority
4308-00-2-R1 4309-00-2-R3	None	Pond Cherry Brook, unnamed streams	3	0	0	0	0	0	0		0	Wooded  Cleared agricultural farmland	0	0	0	0	0	Exempt  Low Priority
4300-00-4+R6	None	Towards Chase Pond	0	0	0	0	1	1	0		0	Wooded with light residential housing	0	0	0	0	2	Low Priority
4317-00-1	None	Towards Jim Brook Cherry Brook,	0	3	0	0	1	1	0		0	Wooded with light residential housing  Mainly residential housing	0	1	0	0	6	Problem
4300-15-1	20	Humphrey Pond	0	3	0	0	3	3	0		3	with lightly wooded areas  A mixture of residential	0	0	0	0	12	High Priority
4312-01-1 4300-00-4+R7	23 None	Jim Brook Chase Pond	0	0	0	0	0	0	0		3	housing and lightly wooded areas Wooded	0	0	0	0	0	High Priority  Exempt
4309-00-2-R5	9	Cherry Brook	3	0	0	3	2	1	0		3	Mainly residential with wooded areas	0	1	0	3	16	High Priority
4300-16-1	29	Cherry Brook, Bahre Pond	0	0	0	0	2	2	0		3	Mainly residential with wooded and cleared agricultural farmland areas	2	1	0	0	10	High Priority
4300-00-4+R8	5	Chase Pond	0	0	0	0	2	2	0		0	Mainly residental housing with wooded areas and lightly cleared agricultural farmland	0	1	0	0	5	Low Priority
4312-00-1	4	Werner Woods Dam, Burke Pond	0	3	0	0	2	2	0		3	Mainly residential housing with wooded areas.	0	1	0	0	11	Problem
4300-00-4+R9	None	Farmington River	3	0	0	0	3	2	0		0	Cleared agriculutral farmland and/or industrial/commercial sites	0	1	1	0	10	Problem
4300-00-4+R10	13	Nepaug River, Holkfelder Pond	0	0	0	0	3	2	0		3	Cleared agricultural farmland and/or industrial/commercial sites	0	1	1	0	10	High Priority
4300-18-1-L1	3	Unnamed Stream, Upper Mills Pond	0	3	0	0	3	3	0		3	Residential housing with lightly wooded areas, as well industrial/commercial sites	0	1	1	0	14	High Priority
4310-00-3-L2	None	Nepaug Reservoir	0	3	0	0	3	2	0		0	Residential with wooded areas, as well as a reservoir	0	1	0	0	9	Problem
4310-00-3-R5	7	Nepaug River, Holkfelder Pond	0	0	0	0	2	1	0		3	Residential housing with wooded areas	0	1	0	1	8	Problem
4312-00-2-L2	14	Cooper Pond, Roaring Brook	3	3	0	0	3	3	0		3	A mixture of residential housing and industrial/commercial sites, as well as wooded areas	0	1	1	0	17	High Priority
4300-17-1	3	Unnamed streams	0	3	0	0	2	1	0		3	Mainly residential housing with wooded areas.	0	1	1	0	11	High Priority
4300-00-4+R11	23	Rattlesnake Hill Brook, Farmington River	0	3	0	0	3	3	0		3	A mixture of resiential housing and industrial/commercial sites	0	1	1	0	14	High Priority
4300-18-1	2	Unnamed Streams, Lower Mills Pond	0	3	0	0	1	1	0		3	Mainly open parks with light residential housing	0	1	1	0	10	High Priority
4312-00-2-L1	None	Bond Pond	0	3	0	0	1	1	0		0	Residential housing with lightly wooded areas	2	1	1	0	9	Problem
4317-01-1	None	Unnamed Pond	0	0	0	0	3	3	0		0	Industrial/commercial site(s) with wooded areas	0	1	0	0	7	Problem
4300-16-2-R1	None	Unnamed Stream, Rattlesnake Hill Brook	0	3	0	0	2	2	0		3	Residential housing with wooded areas	0	1	1	0	12	High Priority
4300-00-4+R12	9	Spring Brook  Towards Secret lake	0	0	0	0	3	3	0		3	Highly populated area with residential housing	0	1	1	0	11	High Priority
4312-02-1	2	and Cherry Park Pond in Avon	0	0	0	0	3	3	0		0	Residential housing	0	1	1	0	8	Problem

	Scoring Criteria:
Previous screening results indicate likely sewer input if any of the f	ollowing are true:
Olfactory or visual evidence of sewage,	
<ul> <li>Ammonia ≥ 0.5 mg/L, surfactants ≥ 0.25 mg/L, and bacteria lev</li> </ul>	rels greater than the water quality criteria applicable to the receiving water, or
<ul> <li>Ammonia ≥ 0.5 mg/L, surfactants ≥ 0.25 mg/L, and detectable</li> </ul>	evels of chlorine
Catchments that discharge to or in the vicinity of any of the follow	ing areas: public beaches, recreational areas, drinking water supplies, or shellfish beds
Receiving water quality based on latest version of State of Connec	cicut Integrated Water Quality Report.
<ul> <li>Poor = Waters with approved TMDLs (Category 4a Waters) wh</li> </ul>	ere illicit discharges have the potential to contain the pollutant identified as the cause of the impairment
<ul> <li>Fair = Water quality limited waterbodies that receive a discharge</li> </ul>	ge from the MS4 (Category 5 Waters)
Good = No water quality impairments	
Generating sites are institutional, municipal, commercial, or indust	rial sites with a potential to contribute to illicit discharges (e.g., car dealers, car washes, gas stations, garden centers, industrial manufacturing, etc.)
Age of development and infrastructure:	
High = Industrial areas greater than 40 years old and areas who	re the sanitary sewer system is more than 40 years old
Medium = Developments 20-40 years old	
Low = Developments less than 20 years old	
Areas once served by combined sewers and but have been separate	ed, or areas once served by septic systems but have been converted to sanitary sewers.
Aging septic systems are septic systems 30 years or older in reside	tial areas.
Any river or stream that is culverted for distance greater than a sir	nple roadway crossing.
Based off of CT NEMO DCIA Calculations	
Pending investigation	

