MS4 ANNUAL REPORT

TOWN OF GRANBY

JANUARY – DECEMBER 2024

PREPARED BY:

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March 25, 2025

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MS4 General Permit
Town of Granby 2024 Annual Report
Permit Number GSM 000029
January 1, 2024 – December 31, 2024
Primary MS4 Contact: Kirk Severance, Director of Public Works, kseverance@granby-ct.gov

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This report documents Granby's efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 1, 2024 to December 31, 2024.

Part I: Summary of Minimum Control Measure Activities

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

1.1 BMP Summary

BMP	Activities in current reporting period	Sources Used (if applicable)	Method of Distribution	Audience (and number of people reached)	Measurable Goal	Department / Person Responsible	Additional details
1-1 Implement public education and outreach	The Town has linked educational materials to its Stormwater Management page, including fact sheets pertaining to animal waste and water quality, lawn care, septic system care, pest management and biological controls, and managing household chemicals.	Town Website and NEMO website.	Electronically	~11,200 Town Residents	Raise awareness that polluted stormwater runoff is the most significant source of water quality problems.	Department of Public Works/ Kirk A. Severance, Director of Public Works	Stormwater Management CT NEMO
1-2 Address education/ outreach for pollutants of concern	In 2020, the West Salmon Brook was identified as an impaired waterbody by bacteria (E. coli). Educational materials tailored and targeted to educate the sources of bacteria were provided online. These included	Town Website	Electronically and brochures	~11,200 Town Residents	Educate the public about the possible sources, impacts, and pollution reduction practices of bacteria.	Department of Public Works/ Kirk A. Severance, Director of Public Works FVHD	Pet Waste and Water Quality

BMP	Activities in current reporting period	Sources Used (if applicable)	Method of Distribution	Audience (and number of people reached)	Measurable Goal	Department / Person Responsible	Additional details
	factsheets pertaining to managing animal (pet and waterfowl) waste, septic system care, and livestock manure management. The Farmington Valley Health District (FVHD) provides additional education materials to the Town.						

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

1. The Town of Granby will continue to raise awareness and motivate resident to use Best Management Practices to reduce Storwmater runoff. This will include publishing tailored and targeted information regarding the 2024 Impaired Water Quality Report 303(d) when it is published.
2. The fact sheets are reviewed every year for their relevance to the Town of Granby and updated if new best management practices have been identified.

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

2.1 BMP Summary

BMP	Status (Complete, Ongoing, In Progress, or Not started)	Activities in current reporting period	Measurable Goal	Department / Person Responsible	Date completed or projected completion date (Include the start date for anything that is 'in progress')	Location Posted	Additional details
2-1 Final Stormwater Management Plan publicly available	Completed	Town Website	Provide access to Stormwater Management Plan and a contact for public questions or comments.	Department of Public Works, Kirk A. Severance.	Completed on April 29th, 2017	Stormwater Management Plan	The Town has a Stormwater Management Plan that was developed for the MS4 Permit that was issued for the period 2017-2022. The CTDEEP reauthorized the MS4 Permit effective October 2023.

BMP	Status (Complete, Ongoing, In Progress, or Not started)	Activities in current reporting period	Measurable Goal	Department / Person Responsible	Date completed or projected completion date (Include the start date for anything that is 'in progress')	Location Posted	Additional details
2-2 Comply with public notice requirements for Annual Reports (annually by 2/15)	Completed	Posted 2023 Annual Report via Town website.	Provide access to 2023 Annual Report and a contact for public questions or comments.	Department of Public Works, Kirk A. Severance.	Ongoing- Annually	Annual Reports	Public comment and outreach were encouraged on the Town of Granby's website during the comment period for the 2023 MS4 Annual Report.
2-3 Additional BMP: Hazardous Waste Collection	Completed	In partnership with Farmington, Canton, Simsbury, and Avon for hazardous waste collection days.	Provide a safe way for the residents of Granby to dispose of hazardous materials that can accumulate in homes, preventing improper disposal that can pollute environmental resources.	Department of Public Works, Kirk A. Severance.	April 20th, June 8th, October 19th 2024	Hazardous Waste Day Collections	Collections are held three (3) times a year.

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

1. The Town of Granby will continue to encourage public comment and review for the 2024 Annual Report in 2025.
2. The Town of Granby continues to receive public input on development projects through various avenues, including public hearings, online permitting processes, citizen comment periods, planning and zoning (P&Z) recorded meetings, posted agendas and minutes, notifications of all public hearings, decisions, and agendas, or phone communications.
3. The annual Hazardous Waste Collection, which is provided annually, will be completed in 2025. Specific dates are available on the Town website.

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

3.1 BMP Summary

BMP	**Status** (Complete, Ongoing, In Progress, or Not started)	**Activities in current reporting period**	**Measurable Goal**	**Department / Person Responsible**	**Date completed or projected completion date** (Include the start date for anything that is 'in progress')	**Additional details**
3-1 Develop written IDDE program (Due 7/1/19)	Completed	The Town has completed a written IDDE program.	Develop written plan of IDDE program	Department of Public Works, Kirk A. Severance.	Completed in November 2017.	The Town Ordinance 146- Stormwater Management, provided the legal authority to prohibit and eliminate illicit discharges. The IDDE Program was described in the Stormwater Management Plan. The Department of Public Works is the central reporting agency for citizen illicit discharge complaint filings. Illicit discharges are filed and updated periodically with abatement activities, sampling, or other pertinent information.
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas (Due 7/1/20)	Completed	The Town has reviewed the list of all MS4 stormwater outfalls in priority areas based on updated information.	All outfalls mapped	Department of Public Works, Kirk A. Severance.	Completed prior to July 2019	Mapping and data will be continually maintained as outfalls are tested, repaired, etc.
3-3 Implement citizen reporting program (Ongoing)	Completed	The general public may report suspected illicit discharges through the Department of Public Works or online.	Provide a reporting mechanism and log	Board of Selectmen/ Town Manager	Completed November 2018	The citizen reporting form for illicit discharges can be found here: Citizen Reporting Program
3-4 Establish legal authority to prohibit illicit discharges (Due 7/1/19)	Completed	An Illicit Discharge Detection and Elimination Ordinance was enacted in 2016.	Adopt ordinance	Board of Selectmen/Town Manager	Completed November 2016	The Illicit Discharge Ordinance can be found here: Illicit Discharge Ordinance

BMP	**Status** (Complete, Ongoing, In Progress, or Not started)	**Activities in current reporting period**	**Measurable Goal**	**Department / Person Responsible**	**Date completed or projected completion date** (Include the start date for anything that is 'in progress')	**Additional details**
3-5 Develop record keeping system for IDDE tracking (Due 7/1/17)	Ongoing	The Department of Public Works has developed a record keeping system. Utilizing Excel, illicit discharges are tracked.	Maintain IDDE list.	Department of Public Works/ Kirk A. Severance, Director of Public Works	Completed in November 2017- ongoing for throughout permit life.	
3-6 Address IDDE in areas with pollutants of concern	Ongoing	Wet weather screening was conducted at priority outfalls. Dry weather inspections were conducted at outfalls throughout the Town. Catchment Rankings have been completed. SSOs are under investigations.	Wet weather testing and additional investigation as necessary.	Department of Public Works/ Kirk A. Severance, Director of Public Works/Atlas	Ongoing Started in 2020	

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

1. Continue wet weather sampling and dry weather screening as a part of follow up and catchment investigations.
3. Respond to any illicit discharge complaints.
4. Conduct Follow-up and Catchment Investigations.
5. Continue to provide annual training to Town staff.

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

Location (Lat long/ street crossing /address and receiving water)	**Date and duration of occurrence**	**Discharge to MS4 or surface water**	**Estimated volume discharged**	**Known or suspected cause / Responsible party**	**Corrective measures planned and completed** (include dates)	**Sampling data** (if applicable)
286 West Granby Road	4/9/2021	Approximately 195 ft. from OF-152	Unknown	Underground spring	Atlas was called to investigate a potential illicit discharge in the Town. Upon arrival, water was found to be discharging from a driveway at a steady, bubbling rate, with heavy algae growth. Discharge lead down the driveway into an adjacent ditch. This runoff discharge is in the vicinity of OF-152, which in turn discharges to the West Branch Salmon Brook. A sample of the discharge was submitted for the analysis of E. coli, T. coli, nitrite, nitrate, and phosphorus to assess potential illicit discharge sources. A review of sampling data from the nearby MS4 outfall (OF-152) did not indicate illicit discharges were entering this catchment. Laboratory analytical results were indicative of groundwater, and it is suspected an underground spring had worked its way to the surface.	**E. coli**-<10 MPN/100mL **T. Coli**- 10 MPN/100mL **Nitrite** - <0.010 mg/L **Nitrate**- 0.55 mg/L **Phosphorus**- 0.304 mg/L
Canal Street	Unknown	None.	Unknown	Property Owner	A property owner diverted discharge from a sump pump. The discharge was directed down the driveway and into the road. The Town Engineer and Director of Public Works met with the property owner, and discussed redirecting the discharge, as well as icing concerns on the road. The property owner was responsive and redirected the discharge onto a grassy area on the property.	**None.**
23 Glen Road	12/15/2021	None.	Unknown	80-year-old septic system- end of life	An evaluation by FVHD led to the replacement of the septic system due to old age and being at the end of its life. Installation of a new 1250-gallon septic tank and leaching field was completed and a permit to discharge was granted, recommending the daily discharge should not exceed 2/3 of the permitted flow.	**None.**
2022						
21 Oakwood Drive	3/21/2022	None.	Unknown	Unknown cause for replacement of septic system	Following site evaluation by FVHD, installation of a new septic system was recommended for unknown reasons. Approval and a permit were provided by FVHD for replacement with a new 1000-gallon septic tank and 495 septic leach field.	**None.**

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)
31 Harmony Hill Road	4/11/2022	East Branch Salmon Brook	Unknown	Failed septic system inspection	Site evaluation by FVHD resulted in a failed inspection of the septic system. Installation of a new 1000-gallon septic tank and 495 septic leaching area was recommended. A proposal for septic system repair was submitted by a licensed installer.	**None.**
73 Silkey Road	6/15/2022	Mountain Brook/ Moosehorn Brook	Unknown	Unknown reason for septic system replacement	FVHD evaluated the site for installation of a new septic system for unknown reasons. A replacement plan was provided by the installer, which includes a two compartment 1000-gallon septic tank and a 495 septic leaching field. FHVD approved the plan and provided a permit for replacement.	**None.**
6 Glen Road	9/21/2022	None.	Unknown	Leaking tank due to invasive roots	FVHD evaluated the septic system where the tank was leaking due to invasive roots. Recommendations for repair included installation of a new 1000-gallon septic tank and 495 septic leaching area. Awaiting installation and permit to repair.	**None.**
80 Canal Road	2022	MS4 System	Unknown	A sump pump was reported as discharging to the road and into a nearby catch basin. Icing on the road was also prevalent following this discharge.	The Town investigated this report. Following investigation, the resident rerouted the sump pump.	**None.**
			2023			
Moosehorn Road cul-de-sac	7/18/2023	MS4 System, Adjacent Stream	Unknown	It appears that silt, sediment, and gravel from the driveway entered the Town's MS4 system and an adjacent stream and can therefore be considered an illicit discharge.	Site evaluation by Atlas resulted in a determination that the discharge was illicit. Washout from the shared driveway at 30, 31, 33, and 54 Moosehorn Road was determined to have been the cause of the discharge. No corrective action has been done at this time.	**None**
The Town coordinated with the Farmington Valley Health District (FVHD) in October 2023 regarding addresses in the Town where septic system repairs were completed. According to the FVHD, approximately 27 septic repairs/replacements were conducted in 2023. Evaluation of these repairs are being conducted in coordination with Atlas to determine if certain sections of the Town have patterns of septic repairs and/or failures.						

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)
2024						
166 Salmon Brook Street	9/15/2024	None.	~50 gallons	Pump failure at sanitary sewer pump station along Salmon Brook Road	A small release of partially treated sewage occurred at a wastewater pumping station at 166 Salmon Brook Street and Route 10. The pump station identified a pump failure, causing effluent to leak from the holding tank into a nearby swale running parallel to Route 10. The tank cover remained intact, so the release consisted mostly of gray water rather than raw sewage. Fill material was placed in the swale to prevent discharge into the local brook, and the spill was contained within the swale without affecting nearby water bodies.	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**
The Farmington Valley Health District (FVHD) received and maintains records of septic failures along with actions taken. All sanitary sewer connections and system extensions are managed by the Building Department. The Town will begin to formally coordinate with Building Department regarding records of septic failures. The Town is currently investigating any septic repairs and/or failures through the FVHD as well. See **Attachment I** for a list of septic repairs and replacements.				

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

Residents of the Town can report illicit discharges directly to the Department of Public Works, or via https://www.granby-ct.gov/DocumentCenter/View/217/Illicit-Discharge-Reporting-Form-PDF?bidId= . The Department of Public Works staff then performs investigations. Digital records on the Town server are used for tracking illicit discharges in excel format.

3.6 IDDE reporting metrics

Metrics	
Estimated or actual number of MS4 outfalls	185
Estimated or actual number of interconnections	Under Investigation

Metrics	
Interconnection mapping complete	In progress
System-wide mapping complete (detailed MS4 infrastructure)	100%
Outfall assessment and priority ranking	100% Eight (8) outfalls were chosen as priority outfalls in 2022. All eight (8) outfalls were sampled in 2024. Priority rankings may change throughout the permit term as new data are collected and evaluated.
Dry weather screening of all High and Low priority outfalls complete	90% All dry weather screening at outfalls in high priority outfalls and discharging to impaired waterbodies have been completed.
Catchment investigations complete	5 Follow-up investigations conducted in 2023 3 Follow-up investigations conducted in 2024
Estimated percentage of MS4 catchment area investigated	TBD

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).

In September 2024, key staff in the Town of Granby received training to comply with the provisions of the Municipal Separate Storm Sewer System (MS4) General Permit. Annual training is conducted to reinforce best practices for identifying and reporting illicit discharges and improper disposal, as well as spill response protocols. These sessions will also reiterate the Town's general goals and objectives outlined in the Stormwater Management Plan (SMP).

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

4.1 BMP Summary

BMP	Status (Complete, Ongoing, In Progress, or Not started)	Activities in current reporting period	Measurable Goal	Department / Person Responsible	Date completed or projected completion date (Include the start date for anything that is 'in progress')	Additional details
4-1 Implement, upgrade, and enforce land use regulations or other legal authority to meet requirements of MS4 general permit (Due 7/1/20)	Ongoing throughout permit lifetime.	There have been no updates in land-use regulations or other legal authority as it pertains to the MS4 permit in the Town of Granby in 2024.	Revise land-use regulations.	Department of Public Works/ Kirk A. Severance, Director of Public Works	Completed in 2018-continues annually	These regulations include maintenance of detention basins, separators, and/or embankments used to manage stormwater quality.

BMP	**Status** (Complete, Ongoing, In Progress, or Not started)	**Activities in current reporting period**	**Measurable Goal**	**Department / Person Responsible**	**Date completed or projected completion date** (Include the start date for anything that is 'in progress')	**Additional details**
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval (Ongoing)	Completed	Kevin W. Clark, P.E., L.S., Town Engineer prepares land use review letters for most applications to the Inland Wetlands Commission, Planning Commission and Zoning Commission.	Utilize interdepartmental coordination in site plan review and approval as it pertains to the MS4 permit.	Land Use Commission Members	Completed in 2017-continues annually	
4-3 Review site plans for stormwater quality concerns (Ongoing)	Completed	Kevin W. Clark, P.E., L.S., Town Engineer encourages the use of LID and Stormwater BMPs practices as contained in the 2004 Connecticut Stormwater Quality Manual.	Issue review comments and review revised plans for MS4 compliance.	Town Engineer/Kevin W. Clark, P.E., L.S.	Completed in 2017-continues annually	Projects that fall under the Planning and Zoning Department are reviewed for compliance with the CTDOT drainage manual.
4-4 Conduct site inspections (Ongoing)	Ongoing	The Town conducts construction site inspections for the proper implementation and maintenance of soil erosion and sediment control measures.	Document inspections and actions.	Community Development Department Director/Abigail Kenyon, AICP/Town Engineer/Kevin. W. Clark, P.E., L.S.	Completed in 2017-continues annually	
4-5 Implement procedure to allow public comment on site development (Ongoing)	Ongoing	The land use application process allows for public comment on land use applications. Applications are submitted to the Inland Wetlands Agency, Planning Commission, Zoning Commission during the Public Hearing Process, when applicable.	Provide an opportunity for public comment/ involvement.	Community Development Department Director/ Abigail Kenyon, AICP and Land Use Commission Members	Completed in 2017-continues annually	
4-6 Implement procedure to notify developers about DEEP construction stormwater permit (Ongoing)	Ongoing	During engineering reviews, letters are typically prepared as part of the land use application process. These letters are used to make developers aware of the need to register for the Construction Stormwater General Permit.	Include comments to applications.	Community Development Department Director/Abigail Kenyon, AICP and Town Engineer/Kevin W. Clark, P.E., L.S.	Completed in 2017-continues annually.	

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

1. The Town will continue to utilize zoning regulations and inspections as a means to ensure BMPs are utilizing be site developers.

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

5.1 BMP Summary

BMP	**Status** (Complete, Ongoing, In Progress, or Not started)	**Activities in current reporting period**	**Measurable Goal**	**Department / Person Responsible**	**Date completed or projected completion date** (Include the start date for anything that is 'in progress')	**Additional details**
5-1 Establish and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning (Due 7/1/22)	In Progress	Current Town Building and Planning & Zoning regulations generally meet LID/runoff reduction requirements for development and redevelopment projects.	Adopt BMPs for any activity, operation, or facility which may cause or contribute to the pollutant loading of stormwater, the storm drain system, or waters of the U.S.	Community Development Department Director/ Abigail Kenyon, AICP and Land Use Commission Members	Started in 2019	Zoning regulations were updated with Section 4.2.4 Stormwater Management. The Town of Granby Zoning Regulations can be found here: ZONING REGULATIONS (granby-ct.gov)
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects (Due 7/1/22)	In Progress	Current Town Building and Planning & Zoning regulations generally meet LID/runoff reduction requirements for development and redevelopment projects. As such, enforcement for such activities would be followed as any other Town coding violation would be.	Enforce regulations and guidelines of LID and runoff reductions.	Community Development Department Director/Abigail Kenyon, AICP, Town Engineer/Kevin W. Clark, P.E., L.S. and Land Use Commission Members	In progress- Started in July 2019	The Town of Granby's Planning and Zoning page can be found here: Planning & Zoning Commission | Granby, CT (granby-ct.gov)

5-3 Identify retention and detention ponds in priority areas (Due 7/1/20)	Completed	A retention pond layer was added to in ArcGIS for the Town.	Compile a list and complete mapping of Town-owned detention basins.	Department of Public Works/ Atlas, Town Engineer/Kevin W. Clark, P.E., L.S.	Completed	
5-4 Implement long-term maintenance plan for stormwater basins and treatment structures (Ongoing)	Completed	A Long-Term Operation and Maintenance Plan was developed for the Town. This plan includes regular inspections and the documentation of all Town-owned retention basins on an as-needed basis, with a minimum full inspection once every five (5) years.	Annually inspect and maintain facilities.	Department of Public Works/ Kirk A. Severance, Director and Town Engineer/Kevin W. Clark, P.E., L.S.	Completed	
5-5 DCIA mapping (Due 7/1/20)	Completed	The DCIA was calculated for the Town with assistance from Nathan L. Jacobson & Associates. Atlas has mapped the DCIA areas through ArcGIS.	Provide an understanding of the Town's overall DCIA to the MS4 infrastructure.	Nathan L. Jacobson & Associates/Atlas	Completed	
5-6 Address post-construction issues in areas with pollutants of concern	In Progress	In post-construction areas, if erosion or high accumulation of sedimentation are found during the annual inspections conducted under the long-term maintenance plan, the Town of Granby will prioritize these areas for DCIA retrofit projects.	Address post-construction areas where erosion or high accumulation of sedimentation are found during annual inspections.	Community Development Department Director/Abigail Kenyon, AICP and Town Engineer, Kevin W. Clark, P.E., L.S.	In Progress-Started in 2021	

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

The Town will continue to monitor, clean, and repair settling/silting basins, catch basins, outfalls, swales, etc. in 2025.

5.3 Post-Construction Stormwater Management reporting metrics

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

Metrics	
Baseline (2012) Directly Connected Impervious Area (DCIA)	21.19 acres

DCIA disconnected (redevelopment plus retrofits)	acres this year (TBD) / acres total (TBD)
Retrofit projects completed	Under Development
DCIA disconnected	0 % This year
Estimated cost of retrofits	$TBD
Detention or retention ponds identified	4 detention ponds and 4 retention ponds.

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 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 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 State. 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
and
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

BMP	**Status** (Complete, Ongoing, In Progress, or Not started)	**Activities in current reporting period**	**Measurable Goal**	**Department / Person Responsible**	**Date completed or projected completion date** (Include the start date for anything that is 'in progress')	**Additional details**
6-1 Develop/implement formal employee training program (Ongoing)	Ongoing	Annual training related to the MS4 permit was conducted in September of 2024 by Atlas to the Town's Department of Public Works and other applicable staff.	Eliminate non-stormwater discharges into the storm sewers	Department of Public Works/Atlas	Ongoing Completed Annually	Annual training was completed in September of 2024.
6-2 Implement MS4 property and operations maintenance (Ongoing)	Ongoing	The Public Works maintains outdoor maintenance at the Town's parks, school grounds, and all other Town-owned land. Additionally, the Public Works 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.	Department of Public Works/ Kirk A. Severance, Director	Ongoing throughout permit term.	
6-3 Implement coordination with interconnected MS4s	Ongoing	Coordination of the MS4 interconnection mapping began in 2019. CTDOT interconnections are currently under investigation by the CTDOT and will be added to the Town's GIS system once this information is available. Interconnections of surrounding Towns are pending investigation.	Update the GIS system with interconnected locations.	Department of Public Works/ Kirk A. Severance, Director/Atlas	Ongoing Started in 2019	

BMP	Status (Complete, Ongoing, In Progress, or Not started)	Activities in current reporting period	Measurable Goal	Department / Person Responsible	Date completed or projected completion date (Include the start date for anything that is 'in progress')	Additional details
6-4 Develop/implement program to control other sources of pollutants to the MS4	Completed			Department of Public Works/ Kirk A. Severance, Director/Atlas	Completed	The Town Ordinance 146-Stormwater Management, provided the legal authority to regulate activities that contribute pollutants to the MS4 system.
6-5 Evaluate additional measures for discharges to impaired waters*	Ongoing	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 take measures to reduce pollutants of concern.	Follow-up and Catchment Investigation and corrective actions	Department of Public Works/ Kirk A. Severance, Director/Atlas	Ongoing-Started in 2018	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.	Department of Public Works/ Kirk A. Severance, Director/Atlas	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.
6-7 Implement infrastructure repair/rehab program (Due 7/1/21)	Ongoing	Inspections and maintenance are continually implemented throughout the Town's MS4 infrastructure.	Reduce/ eliminate causes or contributions of pollution or contamination of stormwater, the storm drain system, or waters of the U.S.	Department of Public Works/ Kirk A. Severance, Director	Ongoing-Started in 2021	
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 of DCIA calculations, impaired waterbodies, current stormwater infrastructure, and the MEP of the Town.	Develop retrofit projects	Department of Public Works/ Kirk A. Severance, Director	Ongoing-Started in 2021	

BMP	**Status** (Complete, Ongoing, In Progress, or Not started)	**Activities in current reporting period**	**Measurable Goal**	**Department / Person Responsible**	**Date completed or projected completion date** (Include the start date for anything that is 'in progress')	**Additional details**
6-9 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.	Department of Public Works/ Kirk A. Severance, Director	Ongoing-Started in 2021	
6-10 Develop/implement street sweeping program (Ongoing)	Ongoing	The Town currently implements a road sweeping program to address known areas of high sediment accumulation.	Track swept lane miles.	Department of Public Works/ Kirk A. Severance, Director	Ongoing throughout permit term	
6-11 Develop/implement catch basin cleaning program (Ongoing)	Ongoing	The Town currently cleans catch-basins in areas where known conditions warrant sediment removal.	Track material usage, and update plan as needed.	Department of Public Works/ Kirk A. Severance, Director	Ongoing throughout permit term	
6-12 Develop/implement snow management practices (Due 7/1/18)	Ongoing	The Town utilizes alternative road de-icing mixtures. These mixtures are modified on a yearly basis based on costs and emerging technologies.	Track material usage, and update plan as needed.	Department of Public Works/ Kirk A. Severance, Director	Ongoing throughout permit term	

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

1. Continue snow management and road sweeping activities

2. Implementation of the Stormwater Retrofit Program

3.Update Catch Basin Cleaning Program and schedule basin cleanings for 2025.

6.3 Pollution Prevention/ Good Housekeeping reporting metrics

Metrics	
Employee training provided for key staff	September 2024
Street sweeping	
Curb miles swept	miles
Volume (or mass) of material collected	tons
Catch basin cleaning	

Metrics	
Total catch basins in priority areas (value will be less than or equal to total catch basins town or institution-wide)	1,227
Total catch basins town- (or institution-) wide	1,538
Catch basins inspected	725
Catch basins cleaned	671
Volume (or mass) of material removed from all catch basins	425 tons
Volume removed from catch basins to impaired waters (if known)	120 tons
Snow management	
Type(s) of deicing material used	Treated Salt (Clearlane)
Total amount of each deicing material applied	892.83 tons
Type(s) of deicing equipment used	1. One (1) 10-Wheeler Plow/Spreader 2. Seven (7) 6-Wheeler Plows/Spreaders 3. One (1) Mason Plow/Spreader *Application rate is 200 lbs. per lane mile
Lane-miles treated (A lane-mile is a mile of roadway in a single driving lane)	188 lane-miles
Snow disposal location	Site specific-no Town snow yard
Staff training provided on application methods & equipment	
Municipal turf management program actions (for permittee properties in basins with N/P impairments)	
Reduction in application of fertilizers (since start of permit)	No
Reduction in turf area (since start of permit)	No
Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems)	
Cost of mitigation actions/retrofits	$235,818.00 in upgrading the sewer pump station at the Salmon Brook Park.

6.4 Catch basin cleaning program

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

There are 1,538 catch basins in the Town of Granby.

2017 - Approximately 480 catch basins were cleaned in 2017 by a subcontracted catch basin cleaning company. The catch basin cleanings are screened and recycled at the former town landfill site in conformance with CT DEEP regulatory guidance.

2018 - No catch basins were vacuumed. The sump depth (sump bottom to lowest pipe invert out) and accumulated sediment/debris depth was measured for more than 700 catch basins.

2019 - No catch basins were vacuumed. The sump depth (sump bottom to lowest pipe invert out) and accumulated sediment/debris depth was measured for more than 500 catch basins. Catch basins to be cleaned in early 2020 where applicable.

2020 - Approximately 844 catch basins were cleaned in spring of 2020 by a subcontracted catch basin cleaning company (including some dry wells). The catch basin cleanings are screened and recycled at the former Town landfill site, in conformance with CT DEEP regulatory guidance.

2021: Approximately 555 catch basins were cleaned in the spring of 2021 by a subcontracted catch basin cleaning company. The catch basin cleanings are screened and recycled at the former Town landfill site, in conformance with CTDEEP regulatory guidance.

2022: No catch basins were vacuumed. The sump depth (sump bottom to lowest pipe invert out) and accumulated sediment/debris depth was measured for 91 catch basins. Catch basins will be cleaned in early 2023 where applicable.

2023: Approximately 483 catch basins were cleaned in the spring of 2023 with an approximate material volume of 140 tons removed.

2024: Approximately 725 catch basins were cleaned in 2024 with an approximate material volume of 425 tons removed.

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 utilizing 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 Classification, 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: Based on these calculations, 28 catchments were identified with Urbanized Areas

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

28 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. 52 catchments were identified as Problem or High Priority.

Specific criteria were 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.

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 Granby 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 https://nemo.uconn.edu/2020/02/26/monitoring-requirement-for-bacteria-impaired-waters/. Refer to the yellow column of the Monitoring comparison chart and the Impaired waters monitoring flowchart.

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

Nitrogen/ Phosphorus ☐ Bacteria ☒ Mercury ☐ Other Pollutant of Concern ☐

1.2 Describe program status

Discuss 1) the status of monitoring work completed, 2) a summary of the results and any notable findings, and 3) any changes to the Stormwater Management Plan based on monitoring results.
Wet weather sampling at outfalls that discharge to impaired waterbodies was completed in 2018 and in 2020. These results were evaluated, and eight priority outfalls were selected. These priority outfalls have been sampled each year between 2020 and 2024. Wet weather samples were analyzed for E. coli and total coliform. Refer to **Attachment II** for the documented wet weather screening and priority outfall results. See **Figures 1-6** for associated GIS maps related to monitoring. Dry weather screening has been completed for 166 of 185 outfalls. Dry weather inspections were completed for 59 outfalls in 2024. These screenings documented the condition of the outfalls, erosion control. Material subtype, and diameter of the outfalls. The condition and erosion control of these outfalls and/or surrounding areas were ranked with the following descriptors: excellent, good, fair, and poor. Outfalls found with poor to fair conditions and/or erosion controls were recommended for repair or implementation of additional erosion controls. Refer to **Attachments III and IV** for the documented dry weather screenings.

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 www.nemo.uconn.edu/ms4/tasks/monitoring.htm. Refer to the yellow column of the Monitoring comparison chart and the Impaired waters monitoring flowchart.

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

See Attachment II

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

Pollutant of concern	Pollutant threshold
Nitrogen	Total N > 2.5 mg/l
Phosphorus	Total P > 0.3 mg/l
Bacteria (fresh waterbody)	• E. coli > 235 col/100ml for swimming areas or 410 col/100ml for all others • Total Coliform > 500 col/100ml
Bacteria (salt waterbody)	• Fecal Coliform > 31 col/100ml for Class SA and > 260 col/100ml for Class SB

	• Enterococci > 104 col/100ml for swimming areas or 500 col/100 for all others
Other pollutants of concern	Sample turbidity is 5 NTU > in-stream sample.

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

Provide the following information for outfalls exceeding the pollutant threshold.

Outfall ID	Status of drainage area investigation	Control measure to address impairment
OF-13	Initial investigation	Investigation ongoing, possible agricultural sources of pollutants
OF-14	Initial investigation	Investigation ongoing, possible agricultural sources of pollutants
OF-15	Initial investigation	Investigation ongoing
OF-74	Initial investigation	Investigation ongoing, possible agricultural sources of pollutants
OF-73	Initial investigation	Investigation ongoing, possible agricultural sources of pollutants
OF-155	Initial investigation	Investigation ongoing, possible agricultural sources of pollutants
OF-177	Initial investigation	Investigation ongoing

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. See **Attachment II** for prioritized outfall monitoring results.

Part III: Additional IDDE Program Data

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

Provide a list of all catchments with ranking results (DEEP basins may be used instead of manual catchment delineations). See **Attachment V** for methodologies used for rank catchments.

1. Catchment ID (DEEP Basin ID)	2. Category	3. Rank
4001-00-1*	Low Priority	4
4300-44-1-L1	Problem	8
4309-00-1	Low Priority	3
4309-01-1	High Priority	10
4309-02-1	Low Priority	3
4319-00-2-R1	High Priority	16
4319-00-2-R2	High Priority	14
4319-00-3-R1	Problem	7
4319-00-3-R2	Problem	8
4319-00-3-R3	Low Priority	5
4319-00-3-R4	Problem	8
4319-00-3-R5	High Priority	19
4319-00-3-R6	High Priority	12
4319-02-1	Problem	8
4319-03-2-R1	Low Priority	2
4319-03-2-R2	Problem	9
4319-04-1	Problem	9
4319-05-1	Problem	8
4319-06-1	Low Priority	4
4319-07-1	Problem	8
4319-08-1	Problem	8
4319-09-1	Problem	7
4319-10-2-L1	Problem	9
4319-10-2-L2	Low Priority	2
4319-10-2-R1	Low Priority	2
4319-11-1	Low Priority	3
4320-00-1	Low Priority	3
4320-00-2-R1	Low Priority	5
4320-00-2-R2	Problem	6
4320-00-2-R3	Problem	5
4320-00-2-R4	Problem	4
4320-00-3-L1	Problem	8
4320-00-3-R1	Problem	7
4320-00-3-R2	Problem	9
4320-00-3-R3	High Priority	8
4320-00-3-R4	Problem	8
4320-00-3-R5	High Priority	16

4320-00-3-R6	Problem	9
4320-00-4-R1	High Priority	16
4320-00-4-R2	Problem	8
4320-00-4-R3	Problem	6
4320-00-4-R4	Low Priority	3
4320-01-1	Problem	7
4320-02-1	Problem	8
4320-03-1	High Priority	11
4320-04-1	Problem	7
4320-05-2-R1	Low Priority	3
4320-05-2-R2	High Priority	10
4320-07-1	Low Priority	3
4320-08-1	Problem	6
4320-09-1	High Priority	11
4320-10-1	High Priority	12
4320-10-2-R1	Low Priority	5
4320-11-1	Problem	7
4320-12-1	High Priority	12
4320-12-2-R1	Low Priority	2
4320-13-1	Problem	9
4320-13-1-L1	High Priority	13
4320-14-1	High Priority	13
4320-15-2-R1	High Priority	10
4320-15-3-R1	High Priority	12
4320-16-1	Problem	10
4320-17-1	High Priority	12
4320-17-2-R1	Problem	6
4320-17-3-R1	Low Priority	3
4320-21-1	Problem	4
4320-21-1-L1	Problem	8
4320-22-1	Problem	9
4320-26-1-L1	Problem	9

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 https://nemo.uconn.edu/2020/02/26/monitoring-requirement-for-bacteria-impaired-waters/. 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.

2.2 Wet weather sample and inspection data

For details on this requirement, visit https://nemo.uconn.edu/2020/02/26/monitoring-requirement-for-bacteria-impaired-waters/. 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.

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. 90% All catchments (utilizing basins for assessment purposes), have been ranked and prioritized.

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.

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
286 W. Granby Rd (OF-152)	Undergroud spring	Atlas was called to investigate a potential illicit discharge in the Town. Upon arrival, water was found to be discharging from a driveway at a steady, bubbling rate, with heavy algae growth. Discharge lead down the driveway into an adjacent ditch. This runoff discharge is in the vicinity of OF-152, which in turn discharges to the West Branch Salmon Brook. A sample of the discharge was submitted for the analysis of E. coli, T. coli, nitrite, nitrate, and phosphorus to assess potential illicit discharge sources. A review of sampling data from the nearby MS4 outfall (OF-152) did not indicate illicit discharges were entering this catchment. Laboratory analytical results were indicative of groundwater, and it is suspected an underground spring had worked its way to the surface.	Citizen report	4/7/2021	N/A	None.	N/A
80 Canal Road	Residential sump pump	A sump pump discharging to the road and running into a nearby catch basin, which in turn lead to icy road conditions, was reported.	Citizen report	2022	2022	Following investigation, the Town required the resident to relocate the sump pump discharge, which was complied with.	Unknown.

Discharge location	Source location	Discharge description	Method of discovery	Date of discovery	Date of elimination	Mitigation or enforcement action	Estimated volume of flow removed
Moosehorn Road	Washout from shared gravel driveway	It appears that silt, sediment, and gravel from the driveway entered the Town's MS4 system and an adjacent stream and can therefore be considered an illicit discharge. Washout from the shared driveway at 30, 31, 33, and 54 Moosehorn Road was determined to have been the cause of the discharge. No corrective action has been done at this time.	Citizen report	7/18/2023	7/21/2023	None.	Unknown.

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: Michael P. Walsh, Town Manager	Print name: RosaLinda Sibilio
Signature / Date: 4/2/25	Signature / Date: RosaLinda Sibilio 3-26-2025
Email: Mwalsh@granby-ct.gov	Email: rosie.sibilio@oneatlas.com

FIGURES

0 3,000 6,000 9,000 12,000
Feet

N

Gillett Corner
Congamond
Belden Brook
Dismal Brook
Bradley Brook
East Hartland
North Granby
Five Points
Goodrichville
Enders State Forest
West Granby
Salmon Brook
Hampsted
Granbrook Park
Simsbury Tri-Town Airport
Firetown
Huskins
Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA

Legend

- Outfall
- Catch Basin Stormwater
- Manhole Impaired
- Waterbody Surface Water
- Main Road
- Town-Owned Land
- Parcel
- Town Line

Town of Granby

2024 Annual Report

MS4 System

ATLAS

0 3,000 6,000 9,000 12,000
Feet

N

OF-73
OF-74
OF-102
OF-104
OF-105
OF-103
OF-14
OF-15

Gillett Corner
Congamond
North Granby
East Hartland
Five Points
Goodrichville
West Granby
Enders State Forest
Salmon Brook
Hampsted
Granbrook Park
Simsbury Tri-Town Airport
Firetown
Huskins
Belden Brook
Dismal Brook
Bradley Brook
Cherry Brook

Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA

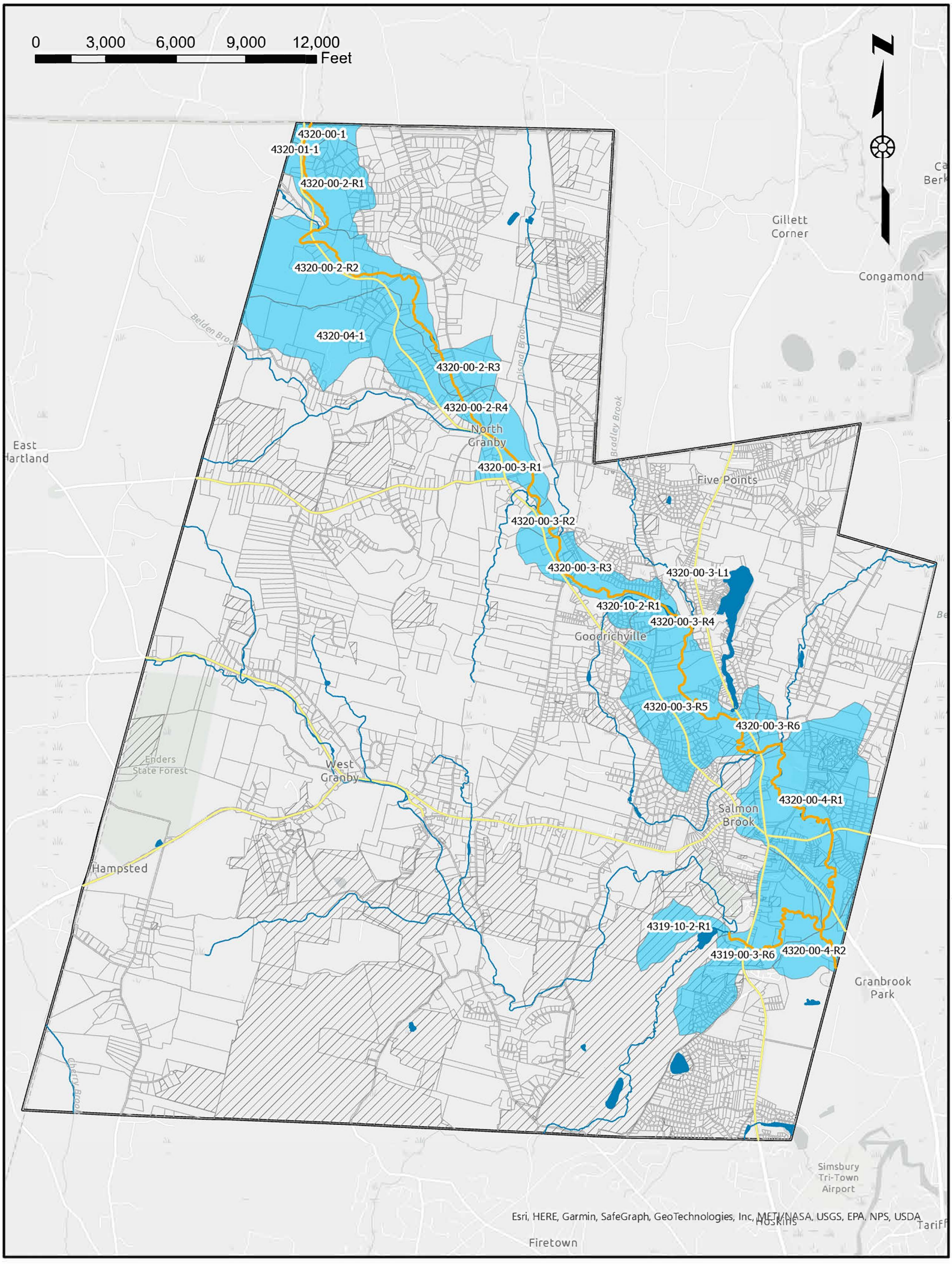
Legend

- Priority Outfalls
- Outfall
- Catch Basin
- Stormwater Manhole
- Impaired Waterbody
- Surface Water
- Main Road
- Town-Owned Land
- Parcel
- Town Line

Town of Granby

2024 Annual Report
Priority Outfalls

ATLAS



Legend

- Catchment
- Impaired Waterbody
- Surface Water
- Main Road
- Town-Owned Land
- Parcel
- Town Line

Town of Granby

2024 Annual Report

Impaired Waters by Catchment

ATLAS

0 3,000 6,000 9,000 12,000
Feet

N

Gillett Corner
Congamond
North Granby
East Hartland
Five Points
Goodrichville
Salmon Brook
West Granby
Enders State Forest
Hampsted
Granbrook Park
Simsbury Tri-Town Airport
Firetown
Belden Brook
Dismal Brook
Bradley Brook
Cherry Brook

Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA

Legend

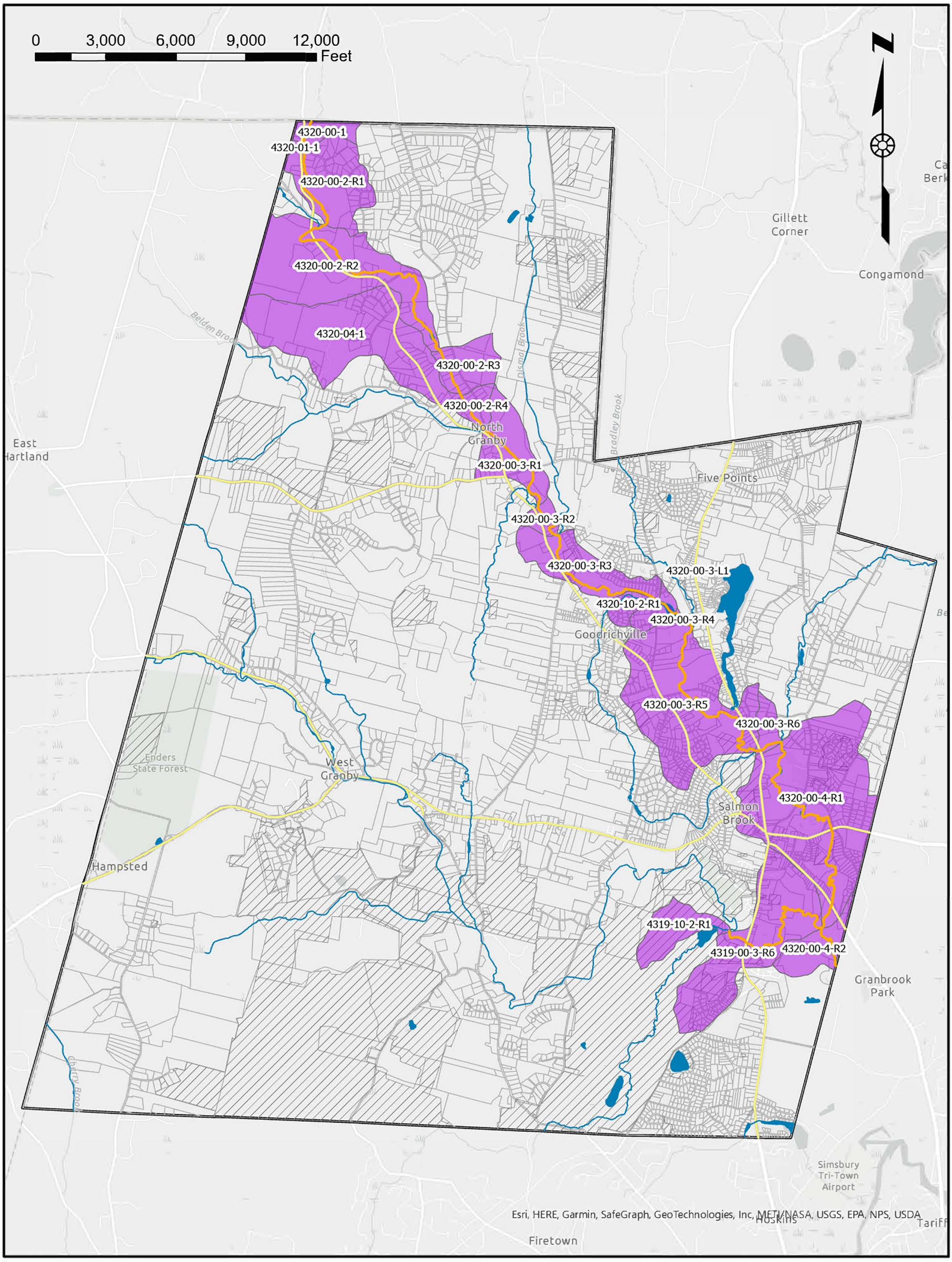
- Urbanized Area Outfall
- Catch Basin Stormwater
- Manhole Impaired
- Waterbody
- Surface Water Main
- Road
- Town-Owned Land
- Parcel
- Town Line

Town of Granby

2024 Annual Report

Urbanized Areas by Catchment

ATLAS



Legend

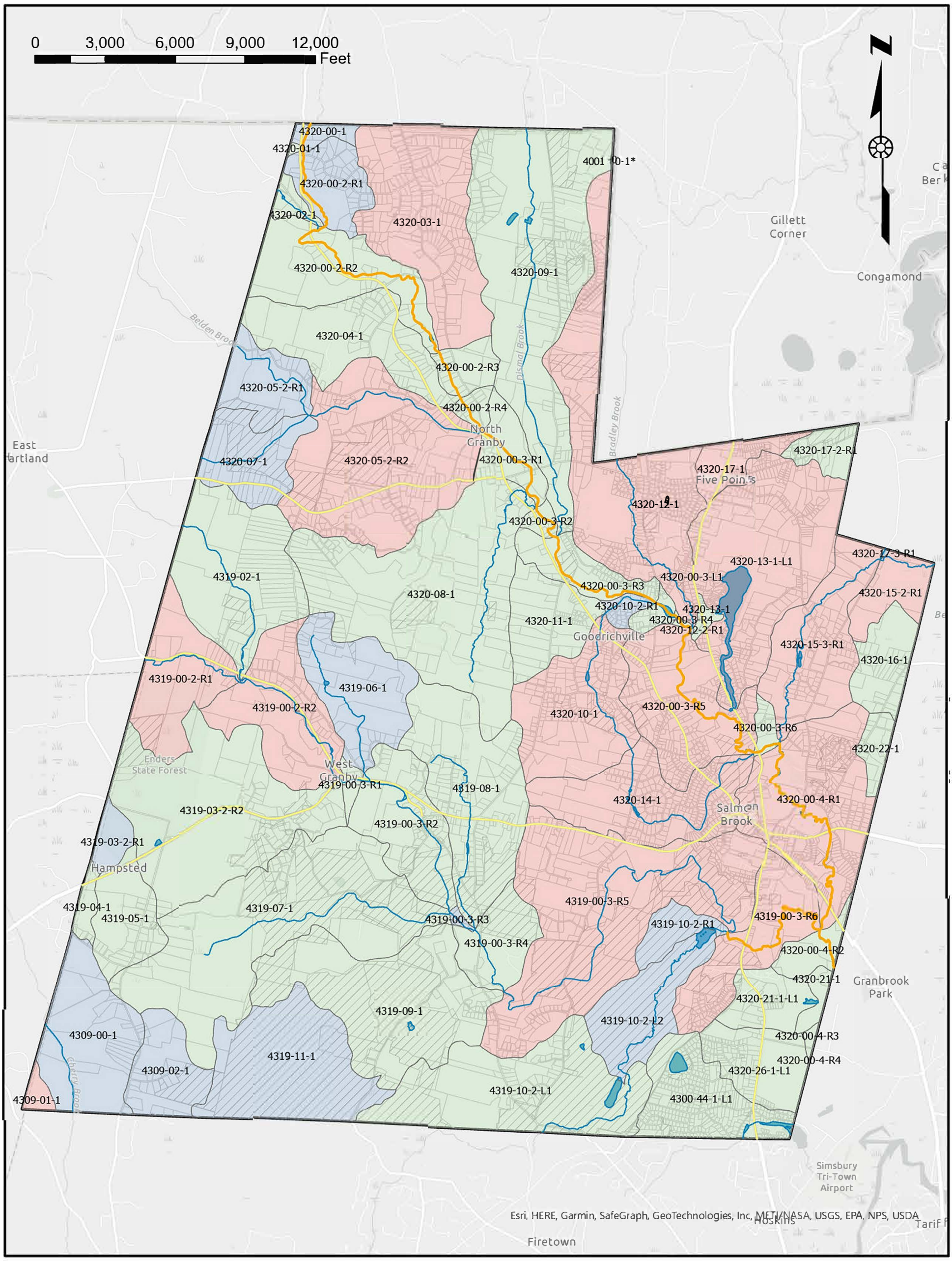
- Catchment
- Impaired Waterbody
- Surface Water
- Main Road
- Town-Owned Land
- Parcel
- Town Line

Town of Granby

2024 Annual Report

Prioritized Retrofitting by Catchment

ATLAS



Legend

- Impaired Waterbody
- Surface Water Main
- Road
- Town-Owned Land
- Parcel
- Town Line

Priority Ranking

- High Priority
- Low Priority
- Problem

Town of Granby

2024 Annual Report

Catchment Priority Rankings

ATLAS

APPENDIX I
SEPTIC REPAIR AND REPLACMENT

Town of Granby
Wet Weather Sampling
Outfalls to Impaired Waterbodies
2018-2024

Outfall ID	Inspection Date	Pollutant Parameter (Nitrogen, Phosphorous, Bacteria, Other)	Results		Laboratory	Follow-Up Required?	Longitude	Latitude
			E. Coli (MPN/100mL)	Total Coliform (MPN/100mL)				
2018								
OF-13	9/10/2018	Bacteria	20	**>24,200**	Phoenix Environmental	Yes	-72.784375	41.9578399
OF-14	9/10/2018	Bacteria	**>24,200**	**>24,200**	Phoenix Environmental	Yes	-72.780682	41.9570748
OF-15	9/10/2018	Bacteria	**269**	**>24,200**	Phoenix Environmental	Yes	-72.77988	41.955557
OF-73	9/10/2018	Bacteria	**6,870**	**>24,200**	Phoenix Environmental	Yes	-72.821732	41.9901248
OF-74	9/10/2018	Bacteria	**13,000**	**>24,200**	Phoenix Environmental	Yes	-72.820082	41.9842248
OF-102	9/10/2018	Bacteria	**9,210**	**>24,200**	Phoenix Environmental	Yes	-72.806849	41.9815081
OF-103	9/10/2018	Bacteria	**12,000**	**>24,200**	Phoenix Environmental	Yes	-72.805525	41.9702553
OF-104	9/10/2018	Bacteria	**4,880**	**>24,200**	Phoenix Environmental	Yes	-72.804936	41.9703202
OF-105	9/10/2018	Bacteria	**9,210**	**>24,200**	Phoenix Environmental	Yes	-72.80428	41.9703214
OF-13	12/28/2018	Bacteria	**4,110**	**7,270**	Phoenix Environmental	Yes	-72.784375	41.9578399
OF-14	12/28/2018	Bacteria	**>24,200**	**>24,200**	Phoenix Environmental	Yes	-72.780682	41.9570748
OF-15	12/28/2018	Bacteria	10	**8,660**	Phoenix Environmental	Yes	-72.77988	41.955557
OF-44	12/28/2018	Bacteria	10	**2,910**	Phoenix Environmental	Yes	-72.835466	41.9501248
OF-73	12/28/2018	Bacteria	**256**	**9,210**	Phoenix Environmental	Yes	-72.821732	41.9901248
OF-74	12/28/2018	Bacteria	10	**17,300**	Phoenix Environmental	Yes	-72.820082	41.9842248
OF-86	12/28/2018	Bacteria	10	**1,620**	Phoenix Environmental	Yes	-72.834279	41.9418247
OF-102	12/28/2018	Bacteria	41	**1,790**	Phoenix Environmental	Yes	-72.806849	41.9815081
OF-103	12/28/2018	Bacteria	120	**5,480**	Phoenix Environmental	Yes	-72.805525	41.9702553
OF-104	12/28/2018	Bacteria	10	**14,100**	Phoenix Environmental	Yes	-72.804936	41.9703202
OF-105	12/28/2018	Bacteria	10	**>2,610**	Phoenix Environmental	Yes	-72.80428	41.9703214
OF-109	12/28/2018	Bacteria	**433**	**17,300**	Phoenix Environmental	Yes	-72.871866	41.9738414
OF-152	12/28/2018	Bacteria	10	**1,840**	Phoenix Environmental	Yes	-72.843599	41.9558581
OF-153	12/28/2018	Bacteria	10	**8,160**	Phoenix Environmental	Yes	-72.843416	41.9551414
OF-154	12/28/2018	Bacteria	20	305	Phoenix Environmental	Yes	-72.841149	41.9533081
OF-155	12/28/2018	Bacteria	20	**11,200**	Phoenix Environmental	Yes	-72.837582	41.9490248
OF-103/104	12/28/2018	Bacteria	216	**4,350**	Phoenix Environmental	Yes	-72.805525	41.9702553
Stream	3/19/2020	Bacteria	201	**2,490**	Phoenix Environmental	Yes	--	--
OF-103/104	3/19/2020	Bacteria	31	**1,920**	Phoenix Environmental	Yes	-72.805525	41.9702553
2020								
Stream	3/19/2020	Bacteria	**563**	**17,300**	Phoenix Environmental	Yes	--	--
OF-102	3/19/2020	Bacteria	**<10**	**8,660**	Phoenix Environmental	Yes	-72.806849	41.9815081

Town of Granby
Wet Weather Sampling
Outfalls to Impaired Waterbodies
2018-2024

Outfall ID	Inspection Date	Pollutant Parameter (Nitrogen, Phosphorous, Bacteria, Other)	Results		Laboratory	Follow-Up Required?	Longitude	Latitude
			E. Coli (MPN/100mL)	Total Coliform (MPN/100mL)				
2020								
OF-103	3/19/2020	Bacteria	**798**	**19,900**	Phoenix Environmental	Yes	-72.805525	41.9702553
OF-104	3/19/2020	Bacteria	20	**12,000**	Phoenix Environmental	Yes	-72.804936	41.9703202
OF-14	3/19/2020	Bacteria	10	**3,650**	Phoenix	Yes	-72.780682	41.9570748
OF-153	3/19/2020	Bacteria	10	**13,000**	-72.84341555	41.95514142		
OF-15	3/19/2020	Bacteria	233	**14,100**	-72.77987999	41.95555698		
OF-13	3/19/2020	Bacteria	20	**3,650**	-72.78437469	41.95783989		
OF-86	3/19/2020	Bacteria	**<10**	**6,490**	-72.83427937	41.94182471		
OF-74	3/19/2020	Bacteria	20	**8,660**	-72.82008222	41.98422475		
OF-73	3/19/2020	Bacteria	20	**4,880**	-72.82173222	41.99012475		
OF-109	3/19/2020	Bacteria	**2,480**	**4,110**	-72.87186554	41.97384142		
OF-155	3/19/2020	Bacteria	**249**	**2,600**	-72.83758222	41.94902476		
OF-152	9/10/2020	Bacteria	**5,790**	**>24,200**	-72.84359888	41.95585809		
OF-44	9/10/2020	Bacteria	110	**7,270**	-72.83546555	41.95012476		
OF-14	9/10/2020	Bacteria	173	**>24,200**	-72.78068224	41.95707475		
OF-15	9/10/2020	Bacteria	**389**	**>24,200**	-72.77987999	41.95555698		
OF-73	9/10/2020	Bacteria	**860**	**>24,200**	-72.82173222	41.99012475		
OF-74	9/10/2020	Bacteria	122	**>24,200**	-72.82008222	41.98422475		
OF-102	9/10/2020	Bacteria	30	**>24,200**	-72.80684889	41.98150808		
OF-103	9/10/2020	Bacteria	74	**>24,200**	-72.80552466	41.97025533		
OF-104	9/10/2020	Bacteria	20	**>24,200**	-72.80493613	41.9703202		
OF-153	3/19/2020	Bacteria	10	**13,000**	Phoenix Environmental	Yes	-72.77988	41.955557
OF-15	3/19/2020	Bacteria	233	**14,100**	Phoenix Environmental	Yes	-72.784375	41.9578399
OF-13	3/19/2020	Bacteria	20	**3,650**	Phoenix Environmental	Yes	-72.834279	41.9418247
OF-86	3/19/2020	Bacteria	**<10**	**6,490**	Phoenix Environmental	Yes	-72.820082	41.9842248
OF-74	3/19/2020	Bacteria	20	**8,660**	Phoenix Environmental	Yes	-72.821732	41.9901248
OF-73	3/19/2020	Bacteria	20	**4,880**	Phoenix Environmental	Yes	-72.871866	41.9738414
OF-109	3/19/2020	Bacteria	**2,480**	**4,110**	Phoenix Environmental	Yes	-72.837582	41.9490248
OF-155	3/19/2020	Bacteria	**249**	**2,600**	Phoenix Environmental	Yes	-72.843599	41.9558581
OF-152	9/10/2020	Bacteria	**5,790**	**>24,200**	Phoenix Environmental	Yes	-72.835466	41.9501248
OF-44	9/10/2020	Bacteria	110	**7,270**	Phoenix Environmental	Yes	-72.780682	41.9570748
OF-14	9/10/2020	Bacteria	173	**>24,200**	Phoenix Environmental	Yes	-72.77988	41.955557

Town of Granby
Wet Weather Sampling
Outfalls to Impaired Waterbodies
2018-2024

Outfall ID	Inspection Date	Pollutant Parameter (Nitrogen, Phosphorous, Bacteria, Other)	Results		Laboratory	Follow-Up Required?	Longitude	Latitude
			E. Coli (MPN/100mL)	Total Coliform (MPN/100mL)				
2020								
OF-15	9/10/2020	Bacteria	**389**	**>24,200**	Phoenix Environmental	Yes	-72.821732	41.9901248
OF-73	9/10/2020	Bacteria	**860**	**>24,200**	Phoenix	Yes	-72.820082	41.9842248
OF-74	9/10/2020	Bacteria	122	**>24,200**	Phoenix Environmental	Yes	-72.806849	41.9815081
OF-102	9/10/2020	Bacteria	30	**>24,200**	Phoenix Environmental	Yes	-72.805525	41.9702553
OF-103	9/10/2020	Bacteria	74	**>24,200**	Phoenix Environmental	Yes	-72.804936	41.9703202
OF-104	9/10/2020	Bacteria	20	**>24,200**	Phoenix Environmental	Yes	-72.804936	41.9703202
2021								
OF-14	9/1/2021	Bacteria	**813**	**>24,200**	Phoenix Environmental	Yes	-72.780682	41.9570748
OF-15	9/1/2021	Bacteria	**1,430**	**>24,200**	Phoenix Environmental	Yes	-72.77988	41.955557
OF-73	9/1/2021	Bacteria	**24,200**	**>24,200**	Phoenix Environmental	Yes	-72.821732	41.9901248
OF-74	9/1/2021	Bacteria	**1,400**	**>24,200**	Phoenix Environmental	Yes	-72.820082	41.9842248
OF-102	9/1/2021	Bacteria	**1,790**	**>24,200**	Phoenix Environmental	Yes	-72.806849	41.9815081
OF-103	9/1/2021	Bacteria	**3,450**	**>24,200**	Phoenix Environmental	Yes	-72.805525	41.9702553
OF-104	9/1/2021	Bacteria	**2,380**	**>24,200**	Phoenix Environmental	Yes	-72.804936	41.9703202
OF-105	9/1/2021	Bacteria	**7,700**	**>24,200**	Phoenix Environmental	Yes	-72.80428	41.9703214
2022								
OF-14	9/22/2022	Bacteria	**>24,200**	**>24,200**	Phoenix Environmental	Yes	-72.780682	41.9570748
OF-15	8/22/2022	Bacteria	**17,300**	**>24,200**	Phoenix Environmental	Yes	-72.77988	41.955557
OF-73	9/22/2022	Bacteria	**>24,200**	**>24,200**	Phoenix Environmental	Yes	-72.821732	41.9901248
OF-74	8/22/2022	Bacteria	**712**	**>24,200**	Phoenix Environmental	Yes	-72.820082	41.9842248
OF-102	8/22/2022	Bacteria	**>24,200**	**>24,200**	Phoenix Environmental	Yes	-72.806849	41.9815081
OF-103	9/22/2022	Bacteria	**6,130**	**>24,200**	Phoenix Environmental	Yes	-72.805525	41.9702553
OF-104	8/22/2022	Bacteria	**>24,200**	**>24,200**	Phoenix Environmental	Yes	-72.804936	41.9703202
OF-105	8/22/2022	Bacteria	**9,210**	**>24,200**	Phoenix Environmental	Yes	-72.80428	41.9703214
2023								
OF-14	8/25/2023	Bacteria	**4,880**	**>24,000**	Phoenix Environmental Laboratories, Inc.	Yes	-72.780682	41.9570748
OF-15	8/25/2023	Bacteria	**1,290**	**>24,000**	Phoenix Environmental Laboratories, Inc.	Yes	-72.77988	41.955557
OF-102	8/25/2023	Bacteria	**2,010**	**>24,000**	Phoenix Environmental Laboratories, Inc.	Yes	-72.806849	41.9815081
OF-103	8/25/2023	Bacteria	**2,610**	**>24,000**	Phoenix Environmental Laboratories, Inc.	Yes	-72.805525	41.9702553

Town of Granby
Wet Weather Sampling
Outfalls to Impaired Waterbodies
2018-2024

Outfall ID	Inspection Date	Pollutant Parameter (Nitrogen, Phosphorous, Bacteria, Other)	Results		Laboratory	Follow-Up Required?	Longitude	Latitude
			E. Coli (MPN/100mL)	Total Coliform (MPN/100mL)				
2023								
OF-104	8/25/2023	Bacteria	**19,900**	**>24,000**	Phoenix Environmental Laboratories, Inc.	Yes	-72.804936	41.9703202
OF-150	8/25/2023	Bacteria	**11,200**	**>24,000**	Phoenix Environmental Laboratories, Inc.	Yes	-72.80428	41.9703214
OF-14	9/18/2023	Bacteria	**19,900**	**>24,200**	Phoenix Environmental Laboratories, Inc.	Yes	-72.780682	41.9570748
OF-15	9/18/2023	Bacteria	**2,920**	**>24,200**	Phoenix Environmental Laboratories, Inc.	Yes	-72.77988	41.955557
OF-73	9/18/2023	Bacteria	**520**	**>24,200**	Phoenix Environmental Laboratories, Inc.	Yes	-72.821726	41.990151
OF-74	9/18/2023	Bacteria	**1,970**	**>24,200**	Phoenix Environmental Laboratories, Inc.	Yes	-72.820065	41.984247
OF-102	9/18/2023	Bacteria	**1,990**	**>24,200**	Phoenix Environmental Laboratories, Inc.	Yes	-72.806849	41.9815081
OF-103	9/18/2023	Bacteria	**24,200**	**>24,200**	Phoenix Environmental Laboratories, Inc.	Yes	-72.805525	41.9702553
OF-104	9/18/2023	Bacteria	**842**	**>24,200**	Phoenix Environmental Laboratories, Inc.	Yes	-72.804936	41.9703202
OF-105	9/18/2023	Bacteria	**6,490**	**>24,200**	Phoenix Environmental Laboratories, Inc.	Yes	-72.80428	41.9703214
2024								
OF-14	11/21/2024	Bacteria	155	**>24,200**	Phoenix Environmental Laboratories, Inc.	Yes	-72.780682	41.9570748
OF-15	11/21/2024	Bacteria	**3,650**	**>24,200**	Phoenix Environmental Laboratories, Inc.	Yes	-72.77988	41.955557
OF-73	11/21/2024	Bacteria	144	**5,790**	Phoenix Environmental Laboratories, Inc.	Yes	-72.821726	41.990151
OF-74	11/21/2024	Bacteria	109	**>24,200**	Phoenix Environmental Laboratories, Inc.	Yes	-72.820065	41.984247
OF-102	11/21/2024	Bacteria	**>24,200**	**>24,200**	Phoenix Environmental Laboratories, Inc.	Yes	-72.806849	41.9815081
OF-103	11/21/2024	Bacteria	213	**>24,200**	Phoenix Environmental Laboratories, Inc.	Yes	-72.805525	41.9702553
OF-104	11/21/2024	Bacteria	231	**>24,200**	Phoenix Environmental Laboratories, Inc.	Yes	-72.804936	41.9703202
OF-109	11/21/2024	Bacteria	**>17,300**	**>24,200**	Phoenix Environmental Laboratories, Inc.	Yes	-72.871866	41.973841

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

APPENDIX II
WET WEATHER SAMPLING OUFALLS TO IMPAIRED WATERBODIES

Town of Granby
Septic Repair and Replacement
2023-2024

Method used to Track Septic Repairs/Replacements	Address	Reason for Evaluation/Replacement	Actions Taken	Impacted Waterbody or Watershed	Department Responsible
2023					
Farmington Valley Health District (FVHD)	3 Hampton Village Drive	Unknown	Septic tank replacement only.	None	FVHD
Farmington Valley Health District (FVHD)	15 Woodland Drive	Unknown	Full system replacement.	None	FVHD
Farmington Valley Health District (FVHD)	176 Lost Acres Road	Unknown	Full system replacement.	None	FVHD
Farmington Valley Health District (FVHD)	18 Kearns Circle	Unknown	Full system replacement.	None	FVHD
Farmington Valley Health District (FVHD)	32 Zimmer Road	Unknown	Full system replacement.	None	FVHD
Farmington Valley Health District (FVHD)	210 Barn Door Hills Road	Unknown	Soil testing done.	None	FVHD
Farmington Valley Health District (FVHD)	250 Barkhamstead Road	Overflow	Soil testing done.	None	FVHD
Farmington Valley Health District (FVHD)	109 Bushy Hill Road	Unknown	Full system replacement.	None	FVHD
Farmington Valley Health District (FVHD)	17 Stardust Drive	Unknown	Soil testing done.	None	FVHD
Farmington Valley Health District (FVHD)	22R Intervale	Unknown	Septic tank replacement only.	None	FVHD
Farmington Valley Health District (FVHD)	330 North Granby Road	Unknown	Full system replacement.	None	FVHD
Farmington Valley Health District (FVHD)	24 Heather Lane	Unknown	Septic tank replacement only.	None	FVHD
Farmington Valley Health District (FVHD)	6 Pine Hill Road	Unknown	Septic tank replacement only.	None	FVHD
Farmington Valley Health District (FVHD)	189 Day Street	Unknown	Soil testing done.	None	FVHD
Farmington Valley Health District (FVHD)	58 Barn Door Hills Road	Unknown	Septic tank replacement only.	None	FVHD
Farmington Valley Health District (FVHD)	473 Salmon Brook Street	Unknown	Full system replacement.	None	FVHD
Farmington Valley Health District (FVHD)	4 Pond Lane	Unknown	Septic tank replacement only.	None	FVHD
Farmington Valley Health District (FVHD)	63 Higley Road	Unknown	Septic tank replacement only.	None	FVHD
Farmington Valley Health District (FVHD)	39 Strong Road	Unknown	Full system replacement.	None	FVHD
Farmington Valley Health District (FVHD)	96 West Granby Road	Unknown	Septic tank replacement only.	None	FVHD
Farmington Valley Health District (FVHD)	68 Canal Road	Unknown	Septic tank replacement only.	None	FVHD
Farmington Valley Health District (FVHD)	11 Rondure Road	Unknown	Septic tank replacement only.	None	FVHD
Farmington Valley Health District (FVHD)	146 North Granby Road	Unknown	Soil testing done.	None	FVHD
Farmington Valley Health District (FVHD)	22 Pendleton Road	Unknown	Septic tank replacement only.	None	FVHD
Farmington Valley Health District (FVHD)	20 Peterson Road	Unknown	Full system replacement.	None	FVHD
Farmington Valley Health District (FVHD)	35 Shelley Drive	Unknown	Full system replacement.	None	FVHD
Farmington Valley Health District (FVHD)	5 Nestor Way	Unknown	Full system replacement.	None	FVHD

Town of Granby
Septic Repair and Replacement
2023-2024

Method used to Track Septic Repairs/Replacements	Address	Reason for Evaluation/Replacement	Actions Taken	Impacted Waterbody or Watershed	Department Responsible
2024					
Farmington Valley Health District (FVHD)	45 East Granby Road	Leach field failing, system 50+ years old.	Full system replacement.	None	FVHD
Farmington Valley Health District (FVHD)	68 Kelly Lane	Strong odor when it rained, leaching field failing.	Full system replacement.	None	FVHD
Farmington Valley Health District (FVHD)	24 Simmer Road	Age of septic system (tank).	Septic tank replacement only.	None	FVHD
Farmington Valley Health District (FVHD)	3 Douglas Drive	Flooded system.	Full system replacement.	None	FVHD
Farmington Valley Health District (FVHD)	14 Harvey Drive	Increase capacity of drainage field.	Full system replacement.	None	FVHD
Farmington Valley Health District (FVHD)	154 Canton Road	Following a septif insepction (2023) that recommended tank replacement.	Full system replacement.	None	FVHD
Farmington Valley Health District (FVHD)	18 Old Simsbury Road .	Corrosion and cracks on tank .	Septic tank replacement only.	None	FVHD
Farmington Valley Health District (FVHD)	35 Cooley Road	Leaching field failing, ponding observed with effluent.	Full system replacement.	None	FVHD
Farmington Valley Health District (FVHD)	220 Broad Hill Road	Age of septic system.	Full system replacement.	None	FVHD
Farmington Valley Health District (FVHD)	1 East View Drive	Unknown	Full system replacement.	None	FVHD
Farmington Valley Health District (FVHD)	511 Salmon Brook Street	Real-estate Inspection	Full system replacement.	None	FVHD
Farmington Valley Health District (FVHD)	9 Morningside Drive	Age of septic system.	Full system replacement.	None	FVHD
Farmington Valley Health District (FVHD)	10 Wells Road	New house addition.	Septic pipe replacement.	None	FVHD
Farmington Valley Health District (FVHD)	31 East Street	Tank cracked.	Septic tank replacement only.	None	FVHD
Farmington Valley Health District (FVHD)	22 High ridge	Connect addition to existing tank	Septic pipe replacement.	None	FVHD
Farmington Valley Health District (FVHD)	85 Higley Road	Age of septic system.	Full system replacement.	None	FVHD
Farmington Valley Health District (FVHD)	15 Basile Road	Tank cracked.	Septic tank replacement only.	None	FVHD
Farmington Valley Health District (FVHD)	19 Intervale Road	Age of septic system.	Septic tank replacement only.	None	FVHD
Farmington Valley Health District (FVHD)	18 Candlewood Lane	Failed inspection	Septic tank replacement only.	None	FVHD
Farmington Valley Health District (FVHD)	52 Spring Glen Road	Existing plastic tank damaged.	Septic tank replacement only.	None	FVHD
Farmington Valley Health District (FVHD)	14 Old Simsbury Road	Failed inspection.	Septic tank replacement only.	None	FVHD
Farmington Valley Health District (FVHD)	122 East Street	Septic system repair evaluation	Septic repair evaluation – replace tank.	None	FVHD
Farmington Valley Health District (FVHD)	24 Pendelton Road	Old metal tank collapsed.	Septic tank replacement only.	None	FVHD
Farmington Valley Health District (FVHD)	45 Barkhamsted Road	Failed inspection	Septic repair evaluation – replace tank.	None	FVHD
Farmington Valley Health District (FVHD)	57 Silkey Road	Age of septic system.	Evaluated for septic system repair	None	FVHD
Farmington Valley Health District (FVHD)	11 Brianwood Drive	Failed inspection.	Evaluated for septic system repair	None	FVHD

APPENDIX III
DRY WEATHER INSPECTIONS

Town of Granby
Dry Weather Inspections
2018 -2024

Number	Outfall ID	Inspection Date	Material	Subtype	Diameter (Inches)	Condition	Erosion Control	Notes	Illicit Discharge	Illicit Discharge Flow Type	Illicit Discharge Description	Sample Collection	Longitude	Latitude
2018														
1	OF-104 (1103)	8/23/2018	HDPE	Pipe	24	Good	Good	Riprap on enbankment. Observed low flow with clear discahrge. Good erosion control.	No	--	--	--	-72.804936	41.97032
2	OF-105 (1107)	8/23/2018	Concrete	Flared End	15	Poor	Poor	Observed low flow with clear discahrge. Road near outfall is eroding	No	--	--	--	-72.80428	41.970321
3	OF-103 (1102)	8/23/2018	HDPE	Flared End	24	Good	Good	Riprap on enbankment. Observed low flow with clear discahrge. Good erosion control.	No	--	--	--	-72.805525	41.970255
4	OF-172 (1748)	8/23/2018	Concrete	Pipe	15	Good	Good	Concrete pipe to rip rap, good erosion control. Dry observed receiving stream to be dry as well.	No	--	--	--	-72.802716	41.983125
5	OF- 171 (1744)	8/23/2018	--	--	--	--	--	Outfall loacted on residential property. Did not access outfall.	No	--	--	--	-72.803066	41.983975
6	OF-102 (1099)	8/23/2018	HDPE	Pipe	24	Good	Good	Two 4' pipes inserted into wall on bridge over Salmon Brook. Dry with adeqyate erosion control.	No	--	--	--	-72.806849	41.981508
7	OF-74 (781)	8/23/2018	--	--	--	--	--	Unable to locate outfall. Located on a farm that likely uses manure as fertilizer.	No	--	--	--	-72.820082	41.984225
8	OF-73 (776)	8/23/2018	Concrete	Flared End	15	Fair	Fair	No discharge observed during inspection. Outfall partially clogged. Some erosion controll (stones) present. Direct discharge to Dismal Brook.	No	--	--	--	-72.821732	41.990125
9	OF-13 (190)	8/23/2018	Concrete	Pipe	--	Good	Good	No discharge observed during inspection. Outfall imbedded in mason wall.	No	--	--	--	-72.784375	41.95784
10	OF-14 (195)	8/23/2018	Corrugated Metal	Pipe	--	Fair	Fair	Some erosion control present, no rip-rap. Heavily covered in vegetation.	No	--	--	--	-72.780682	41.957075
11	OF-15 (198)	8/23/2018	Concrete	Pipe	15	Fair	Fair	Directly discharges into Salmon Brook.	No	--	--	--	-72.77988	41.955557
2020														
12	OF-152	3/27/2020	--	--	--	Poor	Poor	Outfall clogged with leaves.	No	--	--	--	-72.843478	41.954902
13	OF-103 (1102)	3/27/2020	HDPE	Pipe	24	Good	Good	Overall good condition, discharges directly into surface water body	No	--	--	--	-72.805525	41.970255
14	OF-104 (1103)	3/27/2020	HDPE	Pipe	24	Good	Good	Overall good condition, discharges directly into surface water body	No	--	--	--	-72.804936	41.97032
15	OF-13 (190)	3/27/2020	Concrete	Pipe	24	Good	Fair	Down steep embankment, underneath road, moderately vegetated. Murky biological sheen present.	No	--	--	--	-72.784524	41.958427
16	OF-14 (195)	3/27/2020	Corrugated Metal	Pipe	48	Good	Fair	48” corrugated metal pipe, minor damage – still suitable for sampling, leaf litter in outfall	No	--	--	--	-72.780895	41.9573744
17	OF-15 (198)	3/27/2020	Concrete	Pipe	24	Good	Fair	24” concrete channel discharging directly into Salmon Brook, overall good condition, mild erosion observed.	No	--	--	--	-72.779869	41.955479
18	OF-44	3/27/2020	Corrugated Metal	Pipe	24	Good	Good	24” pipe diameter, overall good condition, discharging directly into surface water	No	--	--	--	-72.835542	41.9500315
19	OF-86	3/27/2020	Concrete	Flared End	--	Good	Fair	Discharges to retention pond, leaf litter in outfall	No	--	--	--	-72.834055	41.9418036

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2020														
21	OF-109	3/27/2020	Concrete	Pipe	16	Good	Good	Discharges into rip-rap, overall good condition	No	--	--	--	-72.871956	41.9738534
22	OF-153	3/27/2020	Concrete	Flared End	16	Good	Good	Discharges into rip-rap, overall good condition	No	--	--	--	-72.843478	41.954902
23	OF-155	3/27/2020	HDPE	Pipe	16	Poor	Poor	Silt in outfall, adjacent to bridge.	No	--	--	--	-72.837496	41.9489254
24	OF-74 (781)	3/27/2020	Manhole	--	--	Good	N/A	Storwmater manhole, no discharge, overall good condition	No	--	--	--	-72.819988	41.9839482
25	OF-73 (776)	3/27/2020	Concrete	Flared End	15	Poor	Poor	Behind landscaped residential homes, significant erosion observed, outfall silted in	No	--	--	--	-72.821936	41.9900326
26	OF-102 (1099)	3/27/2020	HDPE	Pipe	24	Good	Good	24" diameter pipe, overall good condition	No	--	--	--	-72.806861	41.9839482
27	OF-105	3/27/2020	--	--	--	Poor	Poor	Outfall silted in, significant leaf litter in outfall, pipe potentially damaged.	No	--	--	--	-72.804338	41.9702263
2022														
28	OF-62	11/15/22	Concrete	Other	24	Excellent	Good	Concrete culvert in riprap swale going through residential yards. Adjacent to farm. Recieves sheetflow, which in turn channelizes off of roadway. Gravel driveway adjacent to culvert.	No	No	--	--	-72.81805	41.9678674
29	OF-106	11/15/22	Concrete	End Wall	18	Good	Poor	Concrete discharge pipe leading to wooded swale, culverted by asphalt paved road. Adjacent to HDPE Flared End pipe buried in leaf litter. Minimal riprap, mostly covered in leaf litter.	Maintenance-leaf litter removal.	No	--	--	-72.814277	41.9725434
30	OF-164	11/15/22	HDPE	Flared End	12	Fair	Fair	HDPE Flared End within riprap swale. In residential wooded area, discharges to pond.	No	No	--	--	-72.815631	41.9613
31	OF-165	11/15/22	HDPE	Flared End	12	Fair	Poor	HDPE Flared End. Minimum riprap at head of outfall-discharges to pond. Significant erosion of riprap going towards pond in residential area.	Erosion Control	No	--	--	-72.816198	41.961225
32	OF-105	11/15/22	Concrete	Other	12	Poor	Poor	Discharges to gravel filled swale. No riprap and buried in leaf litter.	Erosion Control and maintenance-leaf litter removal.	No	--	--	-72.804313	41.970324
33	OF-3	11/15/22	Concrete	Flared End	12	Good	Excellent	Concrete Flared End , discharges immediately into man-made pond in residential area. Well mulched-may see erosion of mulch during a significant storm event.	Erosion Control	No	--	--	-72.800991	41.9661245
34	OF-4	11/15/22	Concrete	Flared End	18	Good	Excellent	Concrete pipe discharging water from man-made pond to wooded swale/stream. Riprap at exit point of pipe to approximately 15 feet away. Residential driveway culverts outfall.	No	No	--	--	-72.80022	41.9661725

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2022														
36	OF-133	11/15/22	Concrete	Flared End	18	Good	Good	Concrete pipe discharging to stream in woods behind residential neighborhood. Riprap from discharge point to approximately 20 feet downstream. Potential leaf litter and debris blockage downstream.	Maintenance-leaf litter removal.	No	--	--	-72.823886	41.9447367
37	OF-13	11/15/22	Concrete	End Wall	36	Good	Excellent	Discharge infiltrates into ground. Concrete retaining wall on right side of outfall. No riprap.	No	No	--	--	-72.784358	41.9578259
38	OF-14	11/15/22	Corrugated Metal	Other	36	Poor	Poor	Discharges to intermittent stream with heavy sediment. Large hole in piping end due to rust. Poor erosion control. Residential area.	Erosion Control and maintenance-check integrity of piping	No	--	--	-72.779662	41.9559251
39	OF-15	11/15/22	Concrete	End Wall	18	Good	Good	Culvert by road receiving channelized sheetflow in residential area. Riprap on both sides of pipe.	No	No	--	--	-72.779548	41.9553519
40	OF-95	11/15/22	Concrete	End Wall	24	Good	Poor	Discharge to intermittent stream. Located in residential area. No erosion control	Erosion Control	No	--	--	-72.776936	41.9551268
41	OF-136	11/15/22	Concrete	Flared End	18	Fair	Fair	Discharges to wooded area-significant gully from discharge. Riprap from outfall to 10ft out. Residential area.	Erosion Control	No	--	--	-72.77736	41.963283
42	OF-47	11/15/22	Concrete	Flared End	18	Good	Fair	Discharge into wooded area. Some riprap at head of culvert, none on sides. Significant sediment loading. Residential area.	Erosion Control and maintenance-sediment loading from connected infrastructure.	No	--	--	-72.780723	41.9631451
43	OF-46	11/15/22	--	--	--	Poor	Poor	Outfall covered by organic debris. Discharges to wooded area with significant ponding. No erosion control.	Erosion control and maintenance-organic debris removal.	No	--	--	-72.780766	41.9649047
44	OF-123	11/15/22	Corrugated Metal	Flared End	30	Poor	Good	Riprap at head of outfall, discharges to a ravine in wooded residential area. Minor hole inside piping caused by rust.	Maintenance-inspect full integrity of piping.	No	--	--	-72.785678	41.9644835
45	OF-90	11/15/22	HDPE	Flared End	36	Good	Good	HDPE pipe discharges to detention pond in wooded area. Riprap around detention basin- overflow appears to exit into adjacent area.	No	No	--	--	-72.77933	41.9763496
46	OF-9	11/15/22	Concrete	Flared End	12	Fair	Poor	Filled with leaves and debris. Discharges into residential yard. Located at end of road. No erosion control.	Erosion Control and Maintenance-removal of leaves and debris.	No	--	--	-72.78385	41.9730833
47	OF-182	11/15/22	Concrete	Flared End	36	Good	Excellent	Concrete pipe with metal Flared End discharging to riprap swale and into river nearby. Located in wooded area to the rear of a residential property.	No	No	--	--	-72.7849	41.9723333
48	OF-10	11/15/22	Concrete	Other	144	Excellent	Good	Outfall flows through footbridge in residential area, leads to stream with moderate flow.	No	No	--	--	-72.784515	41.9731495
49	OF-181	11/15/22	Concrete	Flared End	12	Fair	Poor	Filled with leaves and debris. No erosion control. Discharges into woods in residential area.	No	No	--	--	-72.783183	41.97195

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2022														
51	OF-111	11/21/22	--	--	--	--	--	Outfall located in residential property	Will need access granted.	No	--	--	-72.873967	41.9747667
52	OF-110	11/21/22	--	--	--	--	--	Outfall located in residential yard	Will need access granted.	No	--	--	-72.87335	41.9741167
53	OF-112	11/21/22	--	--	--	--	--	Outfall located in residential yard	Will need access granted.	No	--	--	-72.8756	41.97565
54	OF-27	11/21/22	Other	Other	60	Excellent	Excellent	Drainage swale in wooded area parallel to road. Residential neighborhood. Excellent riprap on both sides of swale. Water is clear and iced over at time of inspection.	No	No	--	--	-72.859233	41.9914167
55	OF-28	11/21/22	HDPE	Flared End	12	Excellent	Excellent	HDPE outfall in wooded area of residential home; riprap on either side of drainage location and on top of outfall; drainage location shows signs of sediment loading.	Maintenance-potential sediment loading from connecting infrastrurcture. Further investigation needed.	No	--	--	-72.854983	41.99
56	OF-29	11/21/22	--	--	--	--	--	Out all located in residential yard	Will need access granted.	No	--	--	-72.853867	41.9895167
57	OF-30	11/21/22	--	--	--	Poor	Good	Outfall covered in leaves and debris; '-- outfall type; appears to flow into area with adequate riprap on either side and above; located between two residential homes in wooded area.	Maintenance-leaf and debris removal.	No	--	--	-72.85265	41.9888
58	OF-38	11/21/22	HDPE	Flared End	12	Good	Fair	HDPE outfall in wooded area at end of road; no riprap; discharge flows over moss and wooded features; boulders at base of discharge area; discharge area indicates sediment loading.	Maintenance-potential sediment loading from connecting infrastrurcture. Further investigation needed.	No	--	--	-72.857717	41.9871667
59	OF-37	11/21/22	HDPE	Flared End	12	Excellent	Excellent	HDPE outfall in wooded area between two residential homes; stones at base of outfall and surrounded drainage area	No	No	--	--	-72.860433	41.9893667
60	OF-2	11/21/22	--	--	--	--	--	Outfall located in residential yard.	Will need access granted.	No	--	--	-72.860133	42.0091667
61	OF-99	11/21/22	HDPE	Flared End	12	Poor	Poor	Outfall located parallel to road and discharges into drainage swale; outfall and swale indicate sediment loading; residential area with apple orchard adjacent property	Maintenance-potential sediment loading from connecting infrastrurcture. Further investigation needed.	No	--	--	-72.863217	42.0083667
62	OF-69	11/21/22	Corrugated Metal	Other	12	Fair	Good	Outfall located in wooded area of residential neighborhood; riprap visible on either side of outfall, top of outfall, and at base of drainage channel; outfall filled with sandy material	Maintenance-sediment removal	No	--	--	-72.852667	42.0150167
63	OF-68	11/21/22	Concrete	Flared End	18	Poor	Fair	Outfall located in wooded area of residential neighborhood; riprap visible at mouth of outfall pipe and in discharge area; heavy leaf litter filling outfall .	Maintenance-leaf litter removal.	No	--	--	-72.853285	42.0158677

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2022														
64	OF-67	11/21/22	Concrete	Flared End	18	Fair	Fair	Outfall on Other side of road and connected to outfall 68; discharges into wooded swale: riprap on either side of swale and above outfall; heavy leaf litter	Maintenance-leaf litter removal.	No	--	--	-72.853467	42.01585
65	OF-100	11/21/22	Concrete	Other	18	Poor	Poor	Outfall pipe discharging to an intermittent stream in wooded area adjacent to road; residential area; brick sized riprap on either side of stream; wood debris covering outfall	Maintenance-debris removal	No	--	--	-72.84835	42.0157833
66	OF-119	11/21/22	Concrete	Flared End	12	Fair	Fair	Outfall pipe discharges to small drainage swale with riprap on all sides; located in wooded area of residential neighborhood; heavy leaf litter in outfall pipe	Maintenance-leaf litter removal.	No	--	--	-72.859	42.0314833
67	OF-120	11/21/22	--	--	--	--	--	Outfall located in residential yard	Will need access granted.	No	--	--	-72.857017	42.0305
68	OF-121	11/21/22	--	--	--	--	--	Outfall located in residential yard	Will need access granted.	No	--	--	-72.85495	42.0299167
69	OF-129	11/21/22	--	--	--	--	--	Outfall located in residential yard	Will need access granted.	No	--	--	-72.8541	42.028
70	OF-122	11/21/22	Concrete	Flared End	12	Poor	Poor	Outfall located in residential area and discharges to a wooded swale; no visible riprap; outfall pipe and swale covered with leaf and wood litter	Erosion Control and maintenance-leaf litter and wood removal	No	--	--	-72.853183	42.0293
71	OF-132	11/21/22	Concrete	Flared End	18	Excellent	Good	Outfall pipe located in wooded area of residential neighborhood; discharges to drainage swale leading into woods; brick sized riprap located on all sides and bottom of swale.	No	No	--	--	-72.847967	42.0267667
72	OF-131	11/21/22	--	--	--	--	--	Outfall located in residential yard	Will need access granted.	No	--	--	-72.846783	42.0287333
73	OF-41	11/21/22	Concrete	Flared End	12	Good	Fair	Outfall pipe adjacent to road and discharged into small swale; located in residential area; no riprap, medium sized boulders naturally around base of swale; signfiicant leaf litter	Maintenance-leaf litter removal.	No	--	--	-72.845433	42.03185
74	OF-151	11/21/22	Concrete	headwall	36	Good	Good	Intermittent stream and small pond adjacent to road and at base of ravine; medium stones and small boulders along edges of stream; headwall at entrance of culverted stream	No	No			-72.843467	42.0358667
75	OF-53	11/21/22	--	--	--	--	--	Outfall located in residential yard	Will need access granted.	No	--	--	-72.849427	42.0348069
76	OF-147	11/21/22	--	--	--	--	--	Outfall located in residential yard	Will need access granted.	No	--	--	-72.840183	42.0279667
77	OF-145	11/21/22	Corrugated Metal	Flared End	60	Good	Good	Outfall pipe in residential area adjacent to road; discharges into perennial pond; medium sized boulders at mouth of outfall and entrance to pond.	No	No	--	--	-72.843767	42.0279333

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2022														
78	OF-159	11/21/22	--	--	--	--	--	Outfall in residential yard	Will need access granted.	No	--	--	-72.841083	42.0237167
79	OF-158	11/21/22	Concrete	Flared End	36	Excellent	Fair	Outfall located in woods of residential neighborhood; discharges to flat wooded area with organic material	No	No	--	--	-72.839533	42.0226833
80	OF-157	11/21/22	Concrete	Flared End	60	Excellent	Excellent	Outfall located in wooded area of residential neighborhood; outfall pipe discharges to swale with brick sized riprap on all sides.	No	No	--	--	-72.83905	42.0215
81	OF-156	11/21/22	Concrete	Flared End	18	Good	Good	Outfall in wooded area of residential neighborhood; parallel to OF-157; discharges to swale with riprap on all sides; brick sized riprap on top of outfall pipe.	No	No	--	--	-72.839633	42.0208667
82	OF-144	11/21/22	--	--	--	Poor	Poor	Outfall located in overgrown wooded swale at corner of Stonehenge Way and Silver Street; outfall pipe covered in brush and leaf litter and not visible; no visible erosion control.	Erosion Control and Maintenance-removal of leaves and brush.	No	--	--	-72.840733	42.0199667
83	OF-176	11/21/22	--	--	--	--	--	Outfall located in wooded area behind home.	Will need access granted.	No	--	--	-72.847533	42.02225
84	OF-98	11/21/22	HDPE	Other	12	Good	Good	Outfall pipe in wooded area adjacent to road in residential neighborhood; discharges to swale with brick sized riprap along swale and on top of pipe; ephemeral stream beyond rip rap.	No	No	--	--	-72.8437	42.0043667
85	OF-141	11/21/22	Concrete	Other	12	Fair	Fair	Outfall pipe from under road to empty field; surrounded by brush; discharges to small gravel swale.	Erosion control and maintenance-brush clearing	No	--	--	-72.863883	41.9718167
86	OF-72	11/21/22	--	--	--	--	--	Outfall located in residential yard	Will need access granted.	No	--	--	-72.780011	41.9591265
2023														
87	OF-65	07/20/23	Concrete	End Wall	3	Good	--	No riprap erosion control, no organic debris covering the mouth of the outfall. 3 inch HDPE pipe likely from 12 Byron Drive discharging significant amount of water into catch basin linked to OF 65. Sample taken from discharge pipe.	Yes	Heavy	Foamy, organic smell	Sample collected from discharge pipe	-72.799925	41.9287993
88	OF-113	07/20/23	Concrete	End Wall	12	Excellent	Poor	discharges into wooded swale	No	--	--	--	-72.843083	41.9602333
89	OF-114	07/20/23	Concrete	End Wall	12	Excellent	Poor	discharges into wooded swale	No	--	--	--	-72.842833	41.9621833
90	OF-115	07/20/23	Concrete	End Wall	12	Fair	N/A	End Wall with no riprap and no organic debris blocking it	No	--	--	--	-72.842067	41.9631
91	OF-169	04/10/23	HDPE	Other	12	Good	Good	Observed clean and free of debris, riprap observed nearby, upgradient catch basin observed with some organic debris on grate	No	--	--	--	-72.799518	41.9630849
92	OF-188	07/20/23	Concrete	End Wall	12	Fair	Poor	No riprap erosion control, outfall located deep in the woods along a walking path	No	--	--	--	-72.789517	41.99995
93	OF-189	07/20/23	Concrete	Flared End	12	Poor	N/A	OF-189, outfall was almost completely submerged in the pond , no riprap	No	--	--	--	-72.802067	41.9264667
94	OF-19	07/20/23	Concrete	End Wall	12	Good	Poor	discharges into wooded swale	No	--	--	--	-72.885667	41.9490333

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2023														
96	OF-22	07/20/23	Concrete	End Wall	12	Excellent	Poor	discharges into grassy swale that leads to pond	No	--	--	--	-72.88855	41.9412833
97	OF-32	07/20/23	HDPE	Flared End	12	Excellent	Excellent	discharges into wooded swale	No	--	--	--	-72.864833	41.95065
98	OF-57	07/20/23	Concrete	Flared End	12	Fair	Fair	No organic debris covering outfall, riprap could be better	No	--	--	--	-72.893817	41.9396833
99	OF-60	07/20/23	Concrete	End Wall	12	Excellent	Good	discharges into stream	No	--	--	--	-72.883604	41.9535825
100	OF-84	04/10/23	Concrete	Flared End	14	Poor	Fair	Lots of leaf litter, fallen branches and organic debris at mouth of outfall, little sediment accumulation observed in pipe, erosion control (asphalt Flared End) deterioration,	No	--	--	--	-72.799533	41.9649667
101	OF-89	04/10/23	Concrete	Flared End	16	Fair	Good	Little sediment, leaf litter and algae observed in pipe, little deterioration to Flared End, riprap under wire outlining dry basin, adjacent to metal culvert	--	--	--	--	-72.830991	41.9405359
102	OF-42	07/20/23	Corrugated Metal	End Wall	18	Good	Poor	discharges into wooded swale	No	--	--	--	-72.826474	41.9634246
103	OF-6	04/10/23	Corrugated Metal	Other	18	Good	Poor	Rill erosion observed at mouth of outfall, little refuse observed, connected to catch basin - well maintained trail to outfall location, leaf litter and organic debris restricting flow to stream	No	--	--	--	-72.804783	41.9192667
104	OF-70	04/10/23	Corrugated Metal	Flared End	18	Good	Poor	Little sediment inside pipe, some sediment and organic debris accumulation at mouth restricting flow path	--	--	--	--	-72.798432	41.9196044
105	OF-88	04/10/23	Concrete	Flared End	20	Good	Fair	Lots of rip rap under metal wire observed around nearby basin (dry), lots of algae in water inside outfall, organic debris and overgrowth restricting flow	--	--	--	--	-72.832164	41.9416166
106	OF-101	07/20/23	Concrete	Flared End	24	Good	Fair	discharges into wooded swale	No	--	--	--	-72.794711	41.9978051
107	OF-140	07/20/23	Concrete	Flared End	24	Excellent	Good	discharges into wooded swale	No	--	--	--	-72.801445	41.9270434
108	OF-167	07/20/23	Corrugated Metal	Flared End	24	Fair	Poor	Organic debris covering the area, riprap in poor condition	No	--	--	--	-72.83905	41.96065
109	OF-17	07/20/23	HDPE	Flared End	24	Good	Fair	discharges into wooded swale. Likely a stream	No	--	--	--	-72.782256	41.9929713
110	OF-173	04/10/23	Concrete	Flared End	24	Fair	Poor	Disconnected from Flared End, rill erosion observed, algae on water, some sediment and organic debris accumulation restricting flow path, connected to upgradient catch basin	No	--	--	--	-72.805754	41.919734
111	OF-174	07/20/23	Concrete	End Wall	24	Excellent	Excellent	discharges into wooded stream	No	--	--	--	-72.853083	41.9617333
112	OF-175	07/20/23	Concrete	Flared End	24	Fair	Fair	Water is slowly flowing from the pond into the outfall	No	--	--	--	-72.850617	41.9621667
113	OF-184	07/20/23	HDPE	Flared End	24	--	N/A	No riprap erosion control, a small amount of organic debris at the bottom of the outfall	No	--	--	--	-72.786576	41.9951394
114	OF-31	07/20/23	HDPE	Flared End	24	Fair	Good	Outfall located a little ways into the woods, plenty of riprap, no organic debris covering it	No	--	--	--	-72.863533	41.9541833
115	OF-43	07/20/23	Corrugated Metal	Flared End	24	Poor	Poor	Organic debris covering most of the mouth of the outfall but not blocking it, little-to-no riprap	No	--	--	--	-72.834683	41.9564833

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2023														
117	OF-63	07/20/23	Concrete	Flared End	24	Good	Fair	discharges into pond in wooded area	No	--	--	--	-72.88795	41.9247333
118	OF-75	07/20/23	Concrete	End Wall	24	Good	Good	discharges into stream. Outfall has good erosion control, but stream is causing considerable erosion.	No	--	--	--	-72.811846	41.9963389
119	OF-94	07/20/23	Concrete	Flared End	24	Fair	N/A	No organic debris covering the outfall, no riprap erosion control	No	--	--	--	-72.817967	41.9800833
120	OF-16	07/20/23	HDPE	Flared End	30	Fair	Fair	No organic debris covering outfall, no riprap erosion control	No	--	--	--	-72.7844	41.9912167
121	OF-21	07/20/23	Concrete	Flared End	32	Fair	N/A	No riprap erosion control, outfall located about 5-8 feet from pond	No	--	--	--	-72.888233	41.9416667
122	OF-116	07/20/23	Concrete	End Wall	36	Good	Good	discharges into stream	No	--	--	--	-72.804051	41.9564097
123	OF-180	07/20/23	Corrugated Metal	End Wall	36	Good	Good	discharges into wooded area. stream connected across the street	No	--	--	--	-72.807267	41.9954352
124	OF-55	07/20/23	Concrete	Flared End	40	Fair	N/A	No riprap erosion control, no organic debris covering outfall, the neighbor told me the area tends to flood whenever it rains	No	--	--	--	-72.811883	41.9976667
125	OF-137	07/20/23	--	--	--	--	--	located behind private property. could not locate	--	--	--	--	-72.77886	41.9649746
126	OF-177	07/20/23	--	--	--	--	--	private property could not locate	--	--	--	--	-72.777633	41.9461
127	OF-18	07/20/23	--	--	--	--	--	Outfall located on 50 mph road, deemed not safe to investigate	--	--	--	--	-72.884233	41.9531833
128	OF-183	07/20/23	--	--	--	--	--	on private property. could not locate	--	--	--	--	-72.804852	41.9252782
129	OF-187	07/20/23	--	--	--	--	--	Outfall was behind a fenced in area, could not go to investigate	--	--	--	--	-72.795517	41.9289833
130	OF-23	07/20/23	--	--	--	--	--	heavily vegetated area. could not locate. no catch basin to reference.	--	--	--	--	-72.890983	41.9364833
131	OF-24	07/20/23	--	--	--	--	--	private property could not locate	--	--	--	--	-72.889899	41.9313678
132	OF-25	07/20/23	--	--	--	--	--	behind fence. could not locate	--	--	--	--	-72.88795	41.9280667
133	OF-51	07/20/23	--	--	--	--	--	could not locate	--	--	--	--	-72.823095	41.9977778
134	OF-52	07/20/23	--	--	--	--	--	Could not locate outfall	--	--	--	--	-72.82165	41.99785
135	OF-54	07/20/23	--	--	--	--	--	Could not locate outfall but found some riprap going into the stream	--	--	--	--	-72.811705	41.9965691
136	OF-59	07/20/23	--	--	--	--	--	private property could not locate	--	--	--	--	-72.886667	41.94215
137	OF-61	04/10/23	--	--	--	--	Poor	OF-61 could not locate, possibly covered by leaf litter and organic debris, significant rill erosion along abutting property's driveway and back yard, ponding observed in backyard, upgradient catch basin with lots of sediment	--	--	--	--	-72.798129	41.9624553
138	OF-7	07/20/23	--	--	--	--	--	located down a very steep embankment. could not locate. discharges into wooded area likely containing a stream	--	--	--	--	-72.8631	41.9553167
139	OF-80	04/10/23	Precast	Flared End	--	Poor	Poor	Completely buried, lots of sediment accumulation and organic debris at mouth of outfall, connected to 2 upgradient catch basins	No	--	--	--	-72.788783	41.9206805
140	OF-81	04/10/23	Concrete	Flared End	--	Poor	Poor	Completely buried/silted in, leaf litter and sediment accumulation at mouth of outfall	No	--	--	--	-72.801673	41.9643991

Town of Granby
Dry Weather Inspections
2018 -2024

Number	Outfall ID	Inspection Date	Material	Subtype	Diameter (Inches)	Condition	Erosion Control	Notes	Illicit Discharge	Illicit Discharge Flow Type	Illicit Discharge Description	Sample Collection	Longitude	Latitude
2023														
142	OF-85	04/10/23	Concrete	Flared End	--	Poor	Poor	Completely buried/silted in, lots of leaf litter , sediment and organic debris, evidence of rill erosion covered by debris	--	--	--	--	-72.799646	41.9633826
143	OF-86	04/10/23	Concrete	Flared End	--	Poor	Poor	Completely buried, lots of sediment inside pipe, lots of leaf litter and organic debris blocking flow path, pooling observed with lots of algae, nearby culvert with medium to large riprap nearby	--	--	--	--	-72.83428	41.9418333
144	OF-87	04/10/23	--	--	--	Poor	Poor	Completely covered/obstructed by vines and fallen trees, nearby culvert culvert, little medium riprap around mouth of outfall, riprap under metal wire around dry basin, lots of leaf litter and organic debris obstructing flow	--	--	--	--	-72.832964	41.9419666
145	OF-91	07/20/23	--	--	--	--	--	Could not locate	--	--	--	--	-72.809459	41.9572965
146	OF-190 (Unmapped)	04/10/23	Concrete	End Wall	--	Poor	Poor	Unmapped location, end wall and buried pipe observed on private property connected to catch basin at street, actual outfall mapped on property was not found	--	--	--	--	-72.801612	41.9639316
147	OF-191 (Unmapped)	04/10/23	Concrete	Flared End	--	Poor	Poor	Unmapped outfall observed completely buried in sediment. Outfall potentially connected to catch basin at street and flow into stream behind private property	--	--	--	--	-72.800965	41.9646858
2024														
148	OF-5	12/13/24	--	--	--	--	--	Outfall located on private property	--	--	--	--	-72.830732	41.9295177
149	OF-161	12/13/24	HDPE	Flared End	--	Excellent	Good	Outfall in good condition, Flared End clear of sediment and debris.	No	--	--	No	-72.832167	41.9334
150	OF-162	12/13/24	--	--	--	--	--	Outfall located on private property	--	--	--	--	-72.837367	41.9333
151	OF-45	12/13/24	--	--	--	--	--	Followed a path in the woods that seemed to be leading to outfall, there was a gate almost halfway to the outfall, did not proceed past the gate.	--	--	--	No	-72.835767	41.9351667
152	OF-108	12/13/24	HDPE	Flared End	--	Good	Good	A pond that discharges to a stream, the pond was frozen so it was not discharging.	No	--	--	No	-72.839367	41.9374667
153	OF-89	12/13/24	Concrete	Flared End	--	Good	Good	No sediment or debris blocking outfall, good erosion control under leaves	No	--	--	No	-72.830997	41.9405333
154	OF-77	12/13/24	Concrete	Flared End	--	Good	Good	Very large Flared End, outfall appears to be on the opposite side of the road where it's marked on the map.	No	--	--	No	-72.824233	41.9246167
155	OF-76	12/13/24	Concrete	Flared End	--	Good	Good	Outfall located about 20 feet into the woods, no sediment or debris blocking outfall, very large Flared End.	No	--	--	No	-72.824333	41.9243667
156	OF-139	12/13/24	--	--	--	--	--	Located on private property	--	--	--	No	-72.8029	41.9276167
157	OF-189	12/13/24	Concrete	Flared End	--	--	None	Outfall feeds into the large pond, a crack in the pipe was observed.	No	--	--	--	-72.802067	41.9264667
158	OF-64	12/13/24	--	--	--	--	--	Unable to locate outfall, appears to be behind someone's house and deep in the woods.	--	--	--	No	-72.899183	41.9262333

Town of Granby
Dry Weather Inspections
2018 -2024

Number	Outfall ID	Inspection Date	Material	Subtype	Diameter (Inches)	Condition	Erosion Control	Notes	Illicit Discharge	Illicit Discharge Flow Type	Illicit Discharge Description	Sample Collection	Longitude	Latitude
2024														
160	OF-97	12/13/24	Concrete	End Wall	--	Good	Good	Very slight discharge, seemed to be groundwater.	Yes	Trickle	--	No	-72.8778	41.95735
161	OF-26	12/13/24	Concrete	End Wall	--	Good	Good	Outfall marked in the middle of intersection, there is also a swale that runs along the street.	No	--	--	No	-72.822817	41.9706833
162	OF-93	12/13/24	--	--	--	--	--	Outfall located on private property, running water was heard inside the catch basin. Too deep to grab a sample.	--	--	--	--	-72.819465	41.9724323
163	OF-92	12/13/24	--	--	--	--	--	Outfall located on private property	--	--	--	No	-72.818817	41.9722167
164	OF-12	12/13/24	--	--	--	--	--	Outfall located behind private property.	--	--	--	No	-72.817417	41.9725833
165	OF-107	12/13/24	--	--	--	--	--	Outfall located on private property.	--	--	--	No	-72.812167	41.9711
166	OF-118	12/13/24	Concrete	Flared End	--	Poor	Poor	Sediment and organic debris build up in outfall.	No	--	--	No	-72.81505	41.9694667
167	OF-78	12/13/24	Concrete	Flared End	--	In Need of Repair	None	Outfall 75% buried in sediment and organic debris, also the map says that it's on the left side of the street but it's actually straight ahead.	No	--	--	No	-72.813583	41.9685
168	OF-166	12/13/24	Concrete	--	--	Good	--	Only able to view outfall from street, located on private property.	Yes	--	--	No	-72.818783	41.9618667
169	OF-66	12/13/24	Concrete	Flared End	--	Good	Good	Appeared to be a culvert for a stream.	Yes	--	--	No	-72.805867	41.9556667
170	OF-186	12/13/24	--	--	--	--	--	Outfall located on private property, catch basin grate appeared to be deteriorating	--	--	--	--	-72.797673	41.9525267
171	OF-61	12/13/24	--	--	--	--	--	Outfall located on private property.	--	--	--	--	-72.798129	41.9624543
172	OF-39	12/18/24	Concrete	Flared End	--	Good	None	24"" concrete Flared End discharges to wooded swlae that leads to a surface waterbody. Leaf litter and detritus present within the pipe. No erosion controls observed.	No	--	--	No	-72.79415	41.9715667
173	OF-40	12/18/24	Concrete	Flared End	--	Good	Poor	Outfall in good condition but erosion observed on sides of swale. rip rap present underneath outfall mouth	No	--	--	--	-72.794533	41.9728167
174	OF-36	12/18/24	--	--	--	--	--	Could not confirm location of outfall, located on residential property. No pipes visible in associated catch basin. There appears to be a drainage area across the street, but no visible pipe.	No	--	--	No	-72.776117	41.9751833
175	OF-128	12/18/24	--	--	--	--	--	No outfall or catch basins observed in immediate area of mapped outfall. Road was recently repaved and brand new catch basins were observed.	--	--	--	No	-72.766367	41.9742167
176	OF-127	12/18/24	Concrete	--	--	--	--	Unable to find exact location of outfall. likely behind residential property. connecting catch basin has a small hope pipe discharging into it. farm land observed in general area outfall.	--	--	--	No	-72.76845	41.9718833
177	OF-126	12/18/24	Corrugated Metal	End Wall	--	Good	Poor	Two 18" corrugated metal pipes discharge to a wooded swale. One pipe is connected to a catch basin up the street, the Other acts as overflow for the pond across the street. Pipes are partially blocked by leaf litter and sediment.	No	--	--	No	-72.774108	41.9649043
178	OF-163	12/18/24	Concrete	--	--	Good	--	Unable to locate outfall located on residential property discharges to a small pond period catch basin.Not flowing.	--	--	--	No	-72.813817	41.9603667

Town of Granby
Dry Weather Inspections
2018 -2024

Number	Outfall ID	Inspection Date	Material	Subtype	Diameter (Inches)	Condition	Erosion Control	Notes	Illicit Discharge	Illicit Discharge Flow Type	Illicit Discharge Description	Sample Collection	Longitude	Latitude
2024														
180	OF-185	12/18/24	HDPE	End Wall	--	Good	None	18"" hdpe pipe discharges to grassy swale. No erosion controls present and rill erosion along swale observed. Some minor leaf litter accumulated in the pipe.	No	--	--	No	-72.814783	41.9796
181	OF-178	12/18/24	Corrugated Metal	--	--	Good	Poor	18"" corrugated metal pipe discharges to wooded stream.	No	--	--	No	-72.811817	41.9865333
182	OF-135	12/18/24	Concrete	--	--	--	--	18"" pipe in catch basin discharges to outfall located on residential property.	No	--	--	No	-72.812733	41.9861167
183	OF-171	12/18/24	Concrete	--	--	--	--	18"" concrete pipe discharges from catch basin to an outfall on residential property. It is assumed the outfall discharges to the pond/wetland area behind the home.	No	--	--	No	-72.803067	41.9839833
184	OF-172	12/18/24	Concrete	Pipe	--	Good	Good	Outfall observed to be in good condition. Rip rap at mouth of pipe minimizing erosion. Discharges to a wetland area that is wooded.	No	--	--	No	-72.802717	41.9831333
185	OF-179	12/18/24	--	--	--	--	--	Unable to locate outfall in residential back yard. New catch basin grated and road was recently paved. Connecting catch basin was recently cleaned.	--	--	--	No	-72.808983	41.9921333
186	OF-134	12/18/24	Corrugated Metal	End Wall	--	Good	None	18"" corrugated metal pipe discharges to wooded swale. No erosion controls observed. Rill erosion observed.	No	--	--	No	-72.80545	41.9916667
187	OF-138	12/18/24	--	--	--	--	--	Unable to locate outfall, observed to be in residential back yard. catch basin has some sediment in basin.	--	--	--	No	-72.80135	41.9927
188	OF-50	12/18/24	Concrete	--	--	--	--	18"" concrete pipe discharges from catch basin to woods behind home.	No	--	--	No	-72.8044	41.9946333
189	OF-48	12/18/24	Concrete	Flared End	--	Good	Good	Culvert outfall directing water under the road. steady flow fromm stream in a wooded area. good rip rap present	Yes	Steady	--	No	-72.80575	41.9953667
190	OF-8	12/18/24	HDPE	--	--	Good	Good	18"" hdpe Flared End discharges to stream in wooded area. some small to medium riprap observed.	--	--	--	No	-72.805717	41.9956
191	OF-54	12/18/24	Concrete	Flared End	--	Poor	Good	outfall pipe found semi buried near a goat farm. discharges to Bradley brook via rip rap	No	--	--	No	-72.8117	41.9965667
192	OF-33	12/18/24	HDPE	End Wall	--	Good	Poor	18"" hdpe pipe discharges to roadside wooded swale. some large pieces of riprap observed. Some rill erosion observed.	No	--	--	No	-72.816867	42.00245
193	OF-34	12/18/24	--	--	--	--	--	Closest cb does not have piping going to small stream.	--	--	--	--	-72.8189	42.0045333
194	OF-35	12/18/24	Concrete	Pipe	--	Good	Good	outfall observed to be in good condition with rip rap for erosion control. discharges tona stream that travels through neighborhood back yards.	No	--	--	No	-72.8223	42.0059167
195	OF-117	12/18/24	Corrugated Metal	--	--	--	--	18"" corrugated metal pipe discharges from catch basin to wooded area behind home.	No	--	--	No	-72.82045	42.0217167
196	OF-143	12/18/24	Concrete	Pipe	--	Poor	None	Outfall discharges to a stream behind residential properties. outfall blocked by tree with no erosion control present. connecting catch basin also receives runoff from opposite side of road where a sheep farm is located. a pond/swale was observed on farm side	No	--	--	No	-72.840398	42.0134286

Town of Granby
Dry Weather Inspections
2018 -2024

Number	Outfall ID	Inspection Date	Material	Subtype	Diameter (Inches)	Condition	Erosion Control	Notes	Illicit Discharge	Illicit Discharge Flow Type	Illicit Discharge Description	Sample Collection	Longitude	Latitude
2024														
198	OF-146	12/18/24	--	--	--	--	--	Unable to locate outfall. Could not locate associated catch basin.	--	--	--	No	-72.8433	42.0262667
199	OF-149	12/18/24	Concrete	End Wall	--	Good	Good	18"" concrete pipe discharges to a wooded stream.	No	--	--	No	-72.8343	42.02895
200	OF-150	12/18/24	Concrete	Pipe	--	Good	Good	Small pipe next to culvert. two small outfalls next to large culverted pipe discharges into stream. both are connected to catch basin	No	--	--	No	-72.834163	42.0290724
201	OF-96	12/18/24	Concrete	--	--	Good	--	Unable to locate outfall. on residential property by a lake. Inspected connecting catch basin, in good condition	No	--	--	No	-72.850383	42.0317333
202	OF-130	12/18/24	Concrete	--	--	Poor	Poor	Outfall pipe appears to be buried in leaf litter. Pipe observation in catch basin shows an 18"" concrete pipe.	No	--	--	No	-72.8503	42.0228167
203	OF-124	12/18/24	HDPE	Pipe	--	Good	Good	Discharges to fox brook. some sediment accumulation observed downstream of brook. rip rap in place to minimize erosion. pipe was dry during inspection. connecting cb was covered in leaf litter	No	--	--	No	-72.862033	42.0267833
204	OF-125	12/18/24	Concrete	--	--	In Need of Repair	None	Outfall discharges to wooded area. Sediment accumulation observed in drainage area. Pipe appears to be completely buried.	No	--	--	No	-72.863667	42.0281833

Notes
1. Outfalls were sampled for potential Illicit Discharges
2. Outfalls inspected multiple times throughout permit (15)

APPENDIX IV

DRY WEATHER INSPECTIONS ILLICIT DISCHARGE SAMPLING RESULTS

Town of Granby
Dry Weather Inspections
Illicit Discharge Sampling Results

Outfall ID	Inspection Date	Condition	Discharge Description	Screening Indicators						
				Chlorine Residual	Ammonia as Nitrogen	MBAS	Conductivitiy	Salinity	Escherichia Coli	Total Coliforms
				mg/L			umhos/cm	ppt	MPN/100mL	
2022										
OF-104	11/15/22	Good	Discharge Observed.	<0.02	0.17	0.13	373	<0.50	**243**	**>24200**
2023										
OF-65	7/20/23	Good	Discharge is foamy and has an organic odor. 3 inch plastic pipe likely from 12 Byron Drive discharging heavy flow of water into catch basin linked to OF 65. Sample taken from discharge pipe in CB-180.	<0.02	<0.05	<0.10	80	<0.5	41	**2,360**
2024										
Atlas did not observe any Illicit Discharges while dry weather inspecting outfalls in 2024.										

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

APPENDIX V

CATCHMENT ASSESSMENT AND PRIOIRTY RANKING MATRIX

Town of Granby
Catchment Assessment
and
Priority Ranking Matrix

Catchment ID	Receiving Water	Previous Screening Results Indicate Likely Sewer Input? [1]	Discharging to Area of Concern to Public Health? [2]	Frequency of Past Discharge Complaints	Receiving Water Quality [3]	Density of Generating Sites [4]	Age of Development/ Infrastructure [5]	Historic Combined Sewers or Septic? [6]	Aging Septic? [7]	Culverted Streams? [8]	Additional Characteristics	Sewer Repair Nearby?	Urbanized Area	DCIA >11%	Impaired Waterbody	Additional Characteristics Score	Score	Priority Ranking *Low Priority:* 0-5 *Problem* : 6-9 *High Priority* : ≥10
Information Source		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	Nathan L. Jacobson & Associates	CLEAR	Other		
Scoring Criteria		Yes = 3 (Problem Catchment) No = 0	Yes = 3 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 = 3 No = 0	Description	Yes=2 No=0	Yes =1 No = 0	Yes =1 No = 0	Yes =1 No = 0	High = 3 Medium =1-2 Low = 0		
4001-00-1*	Great Brook		0		0	1	2	0		0	Wooded; goes into MA		0	0	0	1	4	Low Priority
4300-44-1-L1	Farmington River		0		0	3	1	0		0	Mostly residential with some agricultrual	2	1	0	0	1	8	Problem
4309-00-1	Cherry Brook		0		0	1	1	0		0	Wooded with some agricultural land		0	0	0	1	3	Low Priority
4309-01-1	Cherry Brook		0		0	2	2	0		3	Wooded with residential along highway		1	0	0	2	10	High Priority
4309-02-1	Cherry Brook		0		0	1	1	0		0	Mostly wooded with some residential		1	0	0	0	3	Low Priority
4319-00-2-R1	West Branch Salmon Brook		3		2	2	2	0		3	Mostly wooded with recreational areas along stream and some residential		1	0	1	2	16	High Priority
4319-00-2-R2	West Branch Salmon Brook		0		2	2	2	0		3	Wooded W of stream; Residential E of stream	2	1	0	1	1	14	High Priority
4319-00-3-R1	West Branch Salmon Brook		0		2	1	2	0		0	Wooded with State Hwy 20 bisecting catchment		0	0	1	1	7	Problem
4319-00-3-R2	West Branch Salmon Brook		0		2	1	2	0		0	Mostly wooded with light agricultural land East of the stream		1	0	1	1	8	Problem
4319-00-3-R3	West Branch Salmon Brook		0		2	1	1	0		0	Wooded		0	0	1	0	5	Low Priority
4319-00-3-R4	West Branch Salmon Brook		0		2	2	2	0		0	Agricultural and Wooded		0	0	1	1	8	Problem
4319-00-3-R5	West Branch Salmon Brook		3		2	1	2	0		3	Wooded with some residential/commercial; park	2	1	0	1	1	16	High Priority
4319-00-3-R6	West Branch Salmon Brook		0		2	2	2	0		3	Wooded/residential with some agricultural land		1	0	1	1	12	High Priority
4319-02-1	Moosehorn Brook		0		0	1	1	0		3	Mostly wooded with minimal residential		0	0	0	1	6	Problem
4319-03-2-R1	West Branch Salmon Brook		0		0	1	1	0		0	Wooded; Stream meanders Westward; floodplain		0	0	0	0	2	Low Priority

Town of Granby
Catchment Assessment
and
Priority Ranking Matrix

Catchment ID	Receiving Water	Previous Screening Results Indicate Likely Sewer Input? [1]	Discharging to Area of Concern to Public Health? [2]	Frequency of Past Discharge Complaints	Receiving Water Quality [3]	Density of Generating Sites [4]	Age of Development/ Infrastructure [5]	Historic Combined Sewers or Septic? [6]	Aging Septic? [7]	Culverted Streams? [8]	Additional Characteristics	Sewer Repair Nearby?	Urbanized Area	DCIA >11%	Impaired Waterbody	Additional Characteristics Score	Score	Priority Ranking *Low Priority:* 0-5 *Problem* : 6-9 *High Priority* : ≥10
Information Source		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	Nathan L. Jacobson & Associates	CLEAR	Other		
Scoring Criteria		Yes = 3 (Problem Catchment) No = 0	Yes = 3 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 = 3 No = 0	Description	Yes=2 No=0	Yes =1 No = 0	Yes =1 No = 0	Yes =1 No = 0	High = 3 Medium =1-2 Low = 0		
4319-03-2-R2	West Branch Salmon Brook		0		0	1	2	0		3	Mostly wooded with minimal residential areas	2	0	0	0	1	9	Problem
4319-04-1	West Branch Salmon Brook		0		0	2	2	0		3	Mostly wooded with minimal residential/agricultural areas		1	0	0	1	9	Problem
4319-05-1	West Branch Salmon Brook		0		0	1	1	0		3	Wooded with dense residential area E of stream		1	0	0	2	8	Problem
4319-06-1	Higley Brook		0		0	1	1	0		0	Wooded with minimal cleared land for residential	2	0	0	0	0	4	Low Priority
4319-07-1	Beach Brook		0		0	1	2	0		3	Mostly wooded with minor residential areas towards lower end of stream		1	0	0	1	8	Problem
4319-08-1	Kendall Brook		0		0	1	1	0		3	A mixture of wooded, agricultural, and residential parcels	2	0	0	0	1	8	Problem
4319-09-1	West Branch Salmon Brook		0		0	1	2	0		3	Mostly wooded; little residential		0	0	0	1	7	Problem
4319-10-2-L1	West Branch Salmon Brook		0		0	1	2	0		3	Mostly wooded; little agricultural/residential	2	0	0	0	1	9	Problem
4319-10-2-L2	West Branch Salmon Brook; Trout Pond		0		0	1	1	0		0	Wooded		0	0	0	0	2	Low Priority
4319-10-2-R1	West Branch Salmon Brook		0		0	1	1	0		0	Wooded		0	0	0	0	2	Low Priority
4319-11-1	West Branch Salmon Brook		0		0	1	2	0		0	Wooded		0	0	0	0	3	Low Priority
4320-00-1	Unnamed Stream		0		0	1	1	0		0	Wooded with minimal residential; large mansion with cleared land in Southeast catchment		0	0	0	1	3	Low Priority

Town of Granby
Catchment Assessment
and
Priority Ranking Matrix

Catchment ID	Receiving Water	Previous Screening Results Indicate Likely Sewer Input? [1]	Discharging to Area of Concern to Public Health? [2]	Frequency of Past Discharge Complaints	Receiving Water Quality [3]	Density of Generating Sites [4]	Age of Development/ Infrastructure [5]	Historic Combined Sewers or Septic? [6]	Aging Septic? [7]	Culverted Streams? [8]	Additional Characteristics	Sewer Repair Nearby?	Urbanized Area	DCIA >11%	Impaired Waterbody	Additional Characteristics Score	Score	Priority Ranking *Low Priority:* 0-5 *Problem* : 6-9 *High Priority* : ≥10
Information Source		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	Nathan L. Jacobson & Associates	CLEAR	Other		
Scoring Criteria		Yes = 3 (Problem Catchment) No = 0	Yes = 3 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 = 3 No = 0	Description	Yes=2 No=0	Yes =1 No = 0	Yes =1 No = 0	Yes =1 No = 0	High = 3 Medium =1-2 Low = 0		
4320-00-2-R1	Unnamed Stream		0		0	1	1	0		0	Wooded with small residential development	2	0	0	0	1	5	Low Priority
4320-00-2-R2	Fox Brook		0		0	1	1	0		3	Mostly wooded with some agricultural land along Hwy 89		0	0	0	1	6	Problem
4320-00-2-R3	East Branch Salmon Brook		0		0	1	2	0		0	Mostly agricultural with some wooded		0	0	0	2	5	Problem
4320-00-2-R4	East Branch Salmon Brook		0		0	1	2	0		0	Mostly wooded with minimal residential		0	0	0	1	4	Problem
4320-00-3-L1	Dismal Brook		0		0	1	2	0		0	Commercial/Agricultural	2	1	0	0	2	8	Problem
4320-00-3-R1	East Branch Salmon Brook		0		0	1	2	0		3	Wooded with residential sites in the SE catchment and one plot of agricutural land		0	0	0	1	7	Problem
4320-00-3-R2	West Branch Salmon Brook		0		2	1	2	0		0	Wooded with agricultural and residential land East of stream		1	0	1	2	9	Problem
4320-00-3-R3	Mountain Brook		0		0	1	2	0		0	Agricultural	2	1	0	0	2	8	Problem
4320-00-3-R4	West Branch Salmon Brook		0		2	1	2	0		0	Mostly residential/agricultural		0	0	1	2	8	Problem
4320-00-3-R5	West Branch Salmon Brook		0		2	2	2	0		3	Mostly residential/commercial	2	1	0	1	3	16	High Priority
4320-00-3-R6	West Branch Salmon Brook		0		2	1	2	0		0	Residential with some agricultural land		1	0	1	2	9	Problem
4320-00-4-R1	East Branch Salmon Brook		0		0	2	2	0		3	Tariffville Park, residential and moderate commercial areas	2	1	0	0	3	13	High Priority
4320-00-4-R2	Salmon Brook		0		0	1	2	0		3	Mostly Agricultural with some residential and wooded		1	0	0	1	8	Problem

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4320-00-4-R3	Salmon Brook		0		0	2	2	0		0	Mostly Agricultural		1	0	0	1	6	Problem
4320-00-4-R4	Salmon Brook		0		0	1	1	0		0	Largely Agricultural		0	0	0	1	3	Low Priority
4320-01-1	Belden Brook		0		0	1	1	0		3	Mostly wooded; Peck Orchard in Northwest of catchment		1	0	0	1	7	Problem
4320-02-1	Fox Brook		0		0	1	2	0		3	Moslty Wooded with some residential/commercial		1	0	0	1	8	Problem
4320-03-1	Salmon Brook, unnamed stream		0		0	1	2	0		3	Mostly residential/wooded with intermittnet cleared land	2	1	0	0	2	11	High Priority
4320-04-1	East Branch Salmon Brook		0		0	1	2	0		3	Mostly wooded with some agricultural and residential land		0	0	0	1	7	Problem
4320-05-2-R1	Belden Brook		0		0	1	1	0		0	Mostly wooded with a small orchard in Northeastern region of catchment		0	0	0	1	3	Low Priority
4320-05-2-R2	Belden Brook		0		0	1	2	0		3	Wooded with some residential	2	1	0	0	1	10	High Priority
4320-07-1	Ring Brook		0		0	1	1	0		0	Mostly wooded with one road of residential		0	0	0	1	3	Low Priority

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4320-08-1	Mountain Brook		0		0	1	2	0		0	Mostly wooded with light residential areas and a natual diversity area in Northeast corner of catchment.	2	0	0	0	1	6	Problem
4320-09-1	Dismal Brook; unnamed ponds		0		0	1	2	0		3	Mostly wooded with light residential areas and cleared land		1	0	0	1	8	Problem
4320-10-1	West Branch Salmon Brook		0		0	2	2	0		3	Mostly Residential	2	1	0	0	2	12	High Priority
4320-10-2-R1	West Branch Salmon Brook		0		0	1	1	0		0	Wooded	2	0	0	1	0	5	Low Priority
4320-11-1	Salmon Brook		0		0	2	2	0		0	Agricultural	2	0	0	0	1	7	Problem
4320-12-1	Bradley Brook		0		0	2	2	0		3	Mostly residential with some cleared land and wooded areas; Intermediate School	2	1	0	0	2	12	High Priority
4320-12-2-R1	Salmon Brook		0		0	1	1	0		0	Wooded		0	0	0	0	2	Low Priority
4320-13-1	Salmon Brook		3		0	1	1	0		3	Wooded with some residential; recreational lake in NE catchment		0	0	0	1	9	Problem
4320-13-1-L1	Manitook Lake; Unnamed Stream		3		0	2	2	0		0	Commercial (Masonry/Concrete quarry); recreational (Lake)	2	1	0	0	3	13	High Priority
4320-14-1	Kendall Brook		0		0	2	2	0		3	Residential with some commercial including a school.	2	1	0	0	3	13	High Priority
4320-15-2-R1	Hungary Brook		0		0	2	2	0		3	Moslty residential with one large farm and some cleared land		1	0	0	2	10	High Priority
4320-15-3-R1	Salmon Brook		0		0	2	2	0		3	Residential with some cleared land	2	1	0	0	2	12	High Priority
4320-16-1	Beaverdam Marsh, Great Marsh, unnamed stream, Newgate Pond		0		0	1	2	0		3	Mostly wooded with light residetntial areas along Copper Hill Rd.	2	1	0	0	1	10	Problem
4320-17-1	Unnamed Stream		0		0	2	2	0		3	Mostly residential with some cleared land and minimal agricultural land	2	1	0	0	2	12	High Priority

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4320-17-2-R1	Unnamed Stream		0		0	1	1	0		3	Wooded with some rural residential areas		0	0	0	1	6	Problem
4320-17-3-R1	Salmon Brook		0		0	1	1	0		0	Wooded with some agriculture		0	0	0	1	3	Low Priority
4320-21-1	Salmon Brook		0		0	1	2	0		0	Agricultural with some wooded		0	0	0	1	4	Problem
4320-21-1-L1	Salmon Brook; Sumatra Pond		0		0	2	2	0		0	Commercial and Agricultural		1	0	0	3	8	Problem
4320-22-1	Unnamed Stream		0		0	1	2	0		3	Mostly Agricultural with some wooded and minimal residential		1	0	0	2	9	Problem
4320-26-1-L1	Salmon Brook		0		0	2	2	0		0	Agricultural and Residential	2	1	0	0	2	9	Problem

Scoring Criteria:

[1] Previous screening results indicate likely sewer input if any of the following are true:

- Olfactory or visual evidence of sewage,
- Ammonia ≥ 0.5 mg/L, surfactants ≥ 0.25 mg/L, and bacteria levels greater than the water quality criteria applicable to the receiving water, or
- Ammonia ≥ 0.5 mg/L, surfactants ≥ 0.25 mg/L, and detectable levels of chlorine

[2] Catchments that discharge to or in the vicinity of any of the following areas: public beaches, recreational areas, drinking water supplies, or shellfish beds

[3] Receiving water quality based on latest version of State of Connecticut Integrated Water Quality Report.