



Connecticut Department of
Energy & Environmental Protection
Bureau of Materials Management & Compliance Assurance
Water Permitting & Enforcement Division

MS4 Annual Report Transmittal Form

For the General Permit to Discharge Stormwater from Small Municipal Separate Storm Sewer Systems (MS4)

Print or type unless otherwise noted. Please submit this completed transmittal form, fee, and the MS4 Annual Report as indicated at the end of this form.

CPPU USE ONLY	
App #:	_____
Doc #:	_____
Check #:	_____
Program: Stormwater Permits	

Part I: Annual Report General Information

1. Reporting Period (Calendar Year): <u>January 1, 2022-December 31, 2022</u>	
2. Provide the registration number for the existing general permit registration: <u>GSM000050</u>	
3. Registrant Type (check one):	Fees
☐ state institution/agency	\$375.00 [713]
☐ federal institution/agency	\$375.00 [713]
☒ municipality	\$187.50 [713]
4. Municipality name or Municipality name where institution is located: <u>Town of Simsbury</u>	
The annual report will not be processed without the fee. The fee shall be non-refundable and shall be paid by check or money order to the Department of Energy and Environmental Protection (DEEP) or by such other method as the commissioner may allow.	

Part II: Registrant Information

1. Registrant (Name of Municipality or State or Federal Institution/Agency): <u>Town of Simsbury</u>	
Mailing Address: <u>933 Hopmeadow Street</u>	
City/Town: <u>Simsbury</u>	State: <u>CT</u> Zip Code: <u>06070</u>
Business Phone: <u>860-658-3200</u>	ext.: _____
Contact Person: <u>Tom Roy</u>	Phone: <u>860-658-3200</u> ext. _____
*E-mail: <u>troy@simsbury-ct.gov</u>	
*By providing this e-mail address you are agreeing to receive official correspondence from DEEP, at this electronic address, concerning the subject registration. Please remember to check your security settings to be sure you can receive e-mails from "ct.gov" addresses. Also, please notify DEEP if your e-mail address changes.	

Part II: Registrant Information (continued)

2. Billing contact, if different than the registrant.

Name: **Atlas Technical Consultants, LLC**

Mailing Address: 290 Roberts Street

City/Town: East Hartford

State: CT

Zip Code: 06108

Business Phone: 860-282-9924

ext.:

Contact Person: Luke Whitehouse

Phone: 860-608-8576 ext.

E-mail: luke.whitehouse@oneatlas.com

3. Primary contact for departmental correspondence and inquiries, if different than the registrant.

Name: **Atlas Technical Consultants, LLC**

Mailing Address: 290 Roberts Street

City/Town: East Hartford

State: CT

Zip Code: 06108

Business Phone: 860-282-9924

ext.:

Contact Person: Luke Whitehouse

Phone: 860-608-8576 ext.

*E-mail: luke.whitehouse@oneatlas.com

*By providing this e-mail address you are agreeing to receive official correspondence from DEEP, at this electronic address, concerning the subject registration. Please remember to check your security settings to be sure you can receive e-mails from "ct.gov" addresses. Also, please notify DEEP if your e-mail address changes.

4. Engineer(s) or other consultant(s) employed or retained to assist in preparing the annual report.

☐ Check here if additional sheets are necessary, and label and attach them to this sheet.

Name: **Atlas Technical Consultants**

Mailing Address: 290 Roberts Street

City/Town: East Hartford

State: CT

Zip Code: 06108

Business Phone: 860-608-8576

ext.:

Contact Person: Luke Whitehouse

Phone: 860-608-8576 ext.

E-mail: luke.whitehouse@oneatlas.com

Service Provided: **Annual Report Preparation**

5. ☐ Check here if there are adjacent towns or other entities with which implementation of the Stormwater Management Plan is coordinated for a portion of the subject MS4. If so, provide the names of such towns or entities: _____

Part III: Registrant Certification

The registrant *and* the individual(s) responsible for actually preparing the annual report must sign this part. [If the registrant is the preparer, please mark N/A in the spaces provided for the preparer.]

"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 the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I certify that this annual report transmittal is on complete and accurate forms as prescribed by the commissioner without alteration of the text. I certify that the following public notice requirements have been met. ☒ Annual Report Availability: At least forty-five (45) days prior to submission of each Annual Report to DEEP, pursuant to Section 4(d)(3) of the MS4 General Permit, each permittee shall make available for public review and comment a draft copy of the complete Annual Report. Comments on the Annual Report may be made to the permittee and are <i>not</i> submitted to DEEP. Reasonable efforts to inform the public of this document shall be undertaken by the permittee. Such draft copies shall be made available electronically on the permittee's website for public inspection and copying, consistent with the federal and state Freedom of Information Acts, and shall be made available, at a minimum, at one of the following locations: the permittee's main office or other designated municipal or institution office, a local library or other central publicly available location. Following submission of the Annual Report to DEEP, a copy of the final report shall be made available for public inspection during regular business hours. I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes, and in accordance with any other applicable statute. I also certify that the signature of the registrant, or a duly authorized representative, being submitted herewith complies with section 22a-430-3(b)(2)(B) of the Regulations of Connecticut State Agencies. 		April 5, 2023
Signature of Chief Elected official or Principal Executive Officer	Date	
Maria E. Capriola	Town Manager	
Printed Name of Chief Elected official or Principal Executive Officer	Title (if applicable)	
	4/3/2023	
Signature of Preparer (if different than above)	Date	
Kay Lehoux	Environmental Compliance Manager-Atlas	
Printed Name of Preparer	Title (if applicable)	

Note: Please submit 1) this completed Transmittal Form and the Fee to:

CENTRAL PERMIT PROCESSING UNIT
DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

2) a copy of this completed Transmittal Form and the Annual Report electronically to the following email address: DEEP.StormwaterStaff@ct.gov.

Refer to www.ct.gov/deep/municipalstormwater for information on Annual Report Templates or other additional information concerning the MS4 General Permit.

In the event that electronic submission is not available or possible, please contact the Stormwater Section at 860-424-3025.



2022 MS4 ANNUAL REPORT

Town of Simsbury, Connecticut

MS4 General Permit
Town of Simsbury 2022 Annual Report
Permit Number GSM 000050
January 1, 2022 – December 31, 2022

Primary MS4 Contact: Thomas Roy, Director of Public Works, 860-658-3222, troy@simsbury-ct.gov

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

Part I: Summary of Minimum Control Measure Activities

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

1.1 BMP Summary

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	<i>The Town's website page pertaining to the MS4 Permit contains links related to stormwater topics.</i> <i>The Farmington River Watershed Association (FRWA) held a Volunteer expo and an annual meeting at the Simsbury Public Library in 2022.</i>	Simsbury MS4 Program	Town Website	~1,000	Provide public access to stormwater literature.	Department of Public Works/Tom Roy	<i>The Town of Simsbury has multiple resources posted on the Town website related to stormwater topics. These resources include an informative stormwater video, the Town Stormwater Management Plan, and access to the CT NEMO Program.</i>
1-2 Address education/outreach for	<i>The Town has a Pet Waste Management link included on the Town's</i>	Pet Waste Management	Town Website	~1,000	Educate and provide pet waste	Department of Public Works/Tom Roy.	

pollutants of concern	<i>website page related to stormwater topics. This link directs the reader to the CTDEEP Pollution Prevention Ideas for Pet Care, which includes several ways to manage pet waste.</i>				<i>management to the public.</i>		
Example Additional BMP: <i>1-3 Hazardous Waste Collection</i>	<i>In partnership with Farmington, Canton, Granby, and Avon. Hazardous Waste Collection days are provided per year.</i>	<i>Hazardous Waste Collection</i>	<i>Town Website</i>	<i>~2,000</i>	<i>Educate and provide hazardous waste collections.</i>	<i>Department of Public Works/Tom Roy</i>	<i>The Town works collectively with Farmington, Avon, Canton, Granby, and Suffield to provide collections for household hazardous wastes. Dates of hazardous collection for 2021 were April 24, June 12, and Oct. 16.</i>

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

The annual Hazardous Waste Collection, which is provided annually, will be completed in 2023.

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	Complete	Public Notice Posted via Town Website.	Provide notice and access to Annual Report	Engineering/Tom Roy	March 30 th , 2017	Stormwater Management Plan	
2-2 Comply with public notice requirements for Annual Reports (annually by 2/15)	Complete	Public notice posted via Town Website	Provide notice and access to Annual Report	Department of Public Works/Tom Roy	Annually by Feb. 15 th	Annual Report	
Example additional BMP: 2-3 Hazardous Waste Collection 2-4 Public Involvement	Ongoing	2-3: In partnership with Farmington, Canton, Granby, and Avon for hazardous waste collection days. 2-4: The Farmington River Watershed Association (FRWA) held a Volunteer expo and an annual meeting at the Simsbury Public Library in 2022.	2-3 Provide hazardous waste collections 2-4: Promote public involvement within the Town of Simsbury.	Department of Public Works/Tom Roy FRWA	April 24 th , June 12 th , October 16 th Unknown	Hazardous Waste Collection	

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

The annual Hazardous Waste Collection, which is provided annually, will be completed in 2023.

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	<i>The Town completed a written IDDE Program using the CT IDDE program template</i>	<i>Develop written plan of IDDE program</i>	<i>Engineering/Tom Roy</i>	<i>June 27, 2018</i>	
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas (Due 7/1/20)	Completed	<i>The Town continues a QA/QC process of reviewing GIS system and editing as necessary</i>	<i>All outfalls mapped</i>	<i>Engineering/Tom Roy</i>	<i>Fall 2017</i>	<i>Mapping and data will be continually maintained as outfalls are tested, repaired, etc.</i>
3-3 Implement citizen reporting program (Ongoing)	Completed	<i>Maintained reporting via Department of Public Works phone and Town website.</i>	<i>Provide a reporting mechanism and log.</i>	<i>Department of Public Works/Tom Roy</i>	<i>Completed under previous permit.</i>	<i>Citizens may report illicit discharges as they would report other concerns to the Department of Public Works.</i>
3-4 Establish legal authority to prohibit illicit discharges (Due 7/1/19)	Completed	<i>The Town wrote and adopted a Stormwater Connection Ordinance</i>	<i>Adopt ordinance</i>	<i>Engineering/Tom Roy</i>	<i>June 11th, 2018</i>	<i>Five (5) members of the Town staff are designated as authorized enforcement officers.</i>
3-5 Develop record keeping system for IDDE tracking (Due 7/1/17)	Ongoing	<i>The Town continues to maintain a list of reports that include IDDE.</i>	<i>Maintain list.</i>	<i>Department of Public Works/Tom Roy</i>	<i>Completed under previous permit.</i>	<i>Town staff have determined that the current system is sufficient due to the limited number of illicit discharges reported.</i>
3-6 Address IDDE in areas with pollutants of concern	In Progress	<i>Dry weather screening was conducted at 66 outfalls in 2022.</i> <i>Wet weather screen was conducted at six (6) priority outfalls.</i> <i>Catchment Rankings have been completed. SSOs are under investigation.</i>	<i>Wet weather testing and additional investigation as necessary.</i>	<i>Department of Public Works/Tom Roy</i>	<i>Ongoing-Started in 2021</i>	<i>Atlas assists the Town with sampling and inspections at outfalls to impaired waterbodies, as well as dry weather inspections at outfalls related to the Town MS4 infrastructure.</i>

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

-Continue wet weather sampling at priority outfalls discharging to impaired waters.
 -Continue follow-up dry weather screening/testing.
 -Respond to any illicit discharge complaints.

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)
3 Tunxis Road	8/28/2012	Unnamed Brook/Farmington River	Unknown	Broken forcemain	Repaired by Simsbury WPCA	
2013						
17 Firetown Road	4/05/2013	Hop Brook/Farmington River	<50 gallons	Private Lateral		
2014						
4 Middle Lane	4/27/2014	Stebbins Brook/Farmington River	<50 gallons	Private System	Line Cleaned by Simsbury WPCA	
3 Tunxis Road	6/19/2014	Unnamed Brook/Farmington River	Unknown	Cracked AC forcemain	Repaired by Simsbury WPCA	
4 Middle Lane	9/25/2014	Stebbins Brook/Farmington River	<50 gallons	Private System		
536 Hopmeadow Street	11/10/2014	Stebbins Brook/Farmington River	Unknown	Private System	Line cleaned by Simsbury WPCA	
2015						
536 Hopmeadow Street	8/22/2015	Stebbins Brook/Farmington River	<50 gallons	Private System	Line cleaned by Simsbury WPCA	
536 Hopmeadow Street	11/13/2015	Stebbins Brook/Farmington River	Unknown	Private System		
2017						
536 Hopmeadow Street	6/07/2017	Stebbins Brook/Farmington River	Unknown	Private System	Line cleaned by Simsbury WPCA	
2018						
50 Longview Drive	4/01/2018	Potential groundwater discharge to Stratton Brook.	51-500 gallons	Broken forcemain at Pump Station.	Repaired by Simsbury WPCA	

3 Tunxis Road	12/3/2018	Farmington River	500-1,000 gallons	Contractor excavating damaged forcemain	Repaired by Simsbury WPCA	
2020						
536 Hopmeadow Street	12/16/2020	Potential groundwater discharge to Stebbins Brook/Farmington River	Unknown	Private System	Line cleaned by Simsbury WPCA	
2021						
West Mountain Road	6/10/2021	Unnamed brook	~ten -10-gallon containers	Various herbicides and fungicides alongside the road were discovered.	Recovered and properly disposed of by the DPW.	
9 Mountain View Road	7/7/2021	Russell Brook	~17,953	Flooded basement/Homeowner and/or Kapura General Contractors, Inc.	A total of 375-gallons of waste liquid and 55ft ³ were removed from catch basins associated with the IDDE. Refer to Appendix IV of the 2021 Annual Report for the Spill Report.	Refer to Appendix IV of the 2021 Annual Report for Sampling Data and interpretations.
15 Oakhurst Road	2021	Potential groundwater discharge to Stratton Brook	Unknown	Private System Failure	An engineering plan has been approved by the FVHD, and is currently awaiting installation.	
2022						
3 Eagle Lane	2/9/2022	Potential for groundwater discharge to Bissell Brook.	Unknown	Failed septic inspection	A septic system inspection was completed at this location, which subsequently failed. The system was documented as being 55-57 yrs. old. The FVHD recommended the installation of a new 1,500-gallon tank and 577.5 sq.ft. leach field. It is unclear whether this was completed.	
15 Pasture Lane	6/14/2022	Potential groundwater discharge to an unnamed brook	Unknown	Malfunctioning private system	The system was inspected and showed signs of malfunction (not identified in the report). Storm drains	

					and wetlands were identified near this location, and the site was identified as an “area of special concern”, as defined by the public health code. No indications of whether any repairs were made.	
19 Pasture Lane	9/29/2022	Potential groundwater discharge to an unnamed brook	Unknown	Deteriorated septic tank	A new septic tank was installed at this location, and the older septic tank was reportedly properly abandoned.	
11 St Johns Place	11/2/2022	Potential groundwater discharge to Bissell Brook/ Farmington River	Unknown	Failed flow test	Based on the failed flow test of the septic system, the FVHD recommended the by FVHD of a new 1,250 gallon septic tank and 578 sq.ft leaching area. Other recommendations were to pump, crush, and fill the old septic tank and associated dry wells. It is unclear whether the old septic tank and associated dry wells were pumped, crushed, and filled in place.	
18 Oakwood Road	11/9/2022	Potential groundwater discharge to Grimes Brook.	Unknown	Full dry well/system fulfilled its useful life	A septic evaluation indicated that drywells on-site were full, and that they system had fulfilled its “useful life”. Recommendations were made to install a 1,000-gallon septic tank with a 495 sq.ft. leach field, and to pump, crush, and fill the old tank and associated drywells. A 1,200-gallon septic tank was installed with a 590 sq.ft. leach field. The existing septic tank was abandoned; however, there is no indication that the drywells were properly abandoned.	

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
<i>Farmington Valley Health District (FVHD)</i>	<i>15 Oakhurst Road</i>	<i>An engineering plan has been approved by FVHD, and is currently awaiting installation.</i>	<i>Potential for impact to an unknown brook-further catchment investigation is necessary.</i>	<i>FVHD</i>
2022				
<i>Farmington Valley Health District (FVHD)</i>	<i>3 Eagle Lane</i>	<i>The FVHD recommended the installation of a new 1,500-gallon tank and 577.5 sq.ft. leach field. It is unclear whether this was completed.</i>	<i>Potential for groundwater discharge to Bissell Brook-further catchment investigation is necessary.</i>	<i>FHVD</i>
<i>Farmington Valley Health District (FVHD)</i>	<i>15 Pasture Lane</i>	<i>Evaluation completed by FVHD requiring a septic system replacement design from a professional engineer. No indications of whether any repairs were made.</i>	<i>Nearby well, catch basins, and stormwater drain susceptible to impact.</i>	<i>FVHD</i>
<i>Farmington Valley Health District (FVHD)</i>	<i>19 Pasture Lane</i>	<i>A new 1,500-gallon septic tank was installed with two compartments and an outlet filter. FVHD approved a permit for discharge with a restriction of the daily discharge not exceeding 2/3 of the permitted flow.</i>	<i>Brook in close proximity to the property.</i>	<i>FHVD</i>
<i>Farmington Valley Health District (FVHD)</i>	<i>11 St Johns Place</i>	<i>The FVHD recommended the by FVHD of a new 1,250 gallon septic tank and 578 sq.ft leaching area. Other recommendations were to pump, crush, and fill the old septic tank and associated dry wells. It is unclear whether the old septic tank and associated dry wells were pumped, crushed, and filled in place.</i>	<i>Potential for impact to the Farmington River and Bissell Brook.</i>	<i>FVHD</i>
<i>Farmington Valley Health District (FVHD)</i>	<i>18 Oakwood Road</i>	<i>FVHD recommended installation of a new septic system including a new 1,000-gallon tank and 495-sq.ft leach field. A 1,200-gallon septic tank was installed with a 590 sq.ft. leach field. The existing septic tank was abandoned; however, there is no indication that the drywells were properly abandoned.</i>	<i>Nearby wetlands and brook with potential for impact.</i>	<i>FVHD</i>
<i>Farmington Valley Health District (FVHD) receives and maintains records of septic failures along with actions taken. All sanitary sewer connections and system extensions are managed by the Simsbury Water Pollution Control Authority (WPCA) .The sanitary sewer system has been expanded as required, with a focus on areas of known septic failures. The Town has begun to formally coordinate with WPCA regarding records of septic failures. In coordination with Atlas, the Town is currently investigating any septic repairs and/or failures through the Farmington Valley Health District as well.</i>				

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

Residents of the Town of Simsbury can report illicit discharges to the Department of Public Works via <https://www.simsbury-ct.gov/users/troy/contact> . The DPW staff then performs investigations. The engineering department provides support to the DPW staff for locating hard-to-find sources of discharge. Digital records on the town server are used for tracking illicit discharges.

3.6 IDDE reporting metrics

Metrics	
Estimated or actual number of MS4 outfalls	300
Estimated or actual number of interconnections	20
Outfall mapping complete	95% (ongoing updates throughout permit lifetime.)
Interconnection mapping complete	70% (est.) - Mapping of CTDOT interconnections has been completed. Interconnection mapping with surrounding Towns is ongoing.
System-wide mapping complete (detailed MS4 infrastructure)	95% (ongoing updates throughout permit lifetime.)
Outfall assessment and priority ranking	95% (est.)- Outfalls to impaired waterbodies have been inspected and sampled. Six (6) outfalls have been chosen as priority outfalls. Priority rankings have been mapped, and may change throughout the lifetime of the permit based on future data.
Dry weather screening of all High and Low priority outfalls complete	62% (est.)-All dry weather screening at outfalls in high priority outfalls and discharging to impaired waterbodies have been investigated. Outfalls throughout the entirety of the Town are continued to be investigated.
Catchment investigations complete	90% (est.) All catchments (utilizing basins for assessment purposes), have been ranked and prioritized. Due to the lengthy time needed to investigate all septic repairs and/or failures, the Refer to Appendix V for the completed Catchment Investigations)
Estimated percentage of MS4 catchment area investigated	50%

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

Best Management Practice training is provided to all DPW staff for new procedures, as determined by the Director of Public Works. Annual training is provided to the DPW staff on how to identify an illicit discharge, emergency procedures, and reporting illicit discharges to staff superiors.

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)	<i>In Progress</i>	<i>The Town is working towards updating and/or revising land use regulations as they pertain to the MS4 permit.</i>	<i>Revise land-use regulations.</i>	<i>Planning</i>	<i>In Progress-Started in June 2018.</i>	<i>A resolution to create, implement, and enforce regulations was adopted by the Board of Selectmen on June 11th, 2018.</i>
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval (Ongoing)	<i>Completed</i>	<i>Not Applicable</i>	<i>Utilize interdepartmental coordination in site plan review and approval as it pertains to the MS4 permit.</i>	<i>Planning</i>	<i>Completed under previous permit.</i>	<i>Applications are received by the Planning Department, and are circulated to the appropriate departments.</i>
4-3 Review site plans for stormwater quality concerns (Ongoing)	<i>Ongoing</i>	<i>Six (6) site plan applications were reviewed for stormwater quality concerns, and provided recommendations, if necessary, for stormwater quality concerns.</i>	<i>Issue review comments, and review revised plans for MS4 compliance.</i>	<i>Engineering/Tom Roy</i>	<i>Completed under previous permit-ongoing throughout permit life.</i>	
4-4 Conduct site inspections (Ongoing)	<i>Ongoing</i>	<i>Active sites are monitored throughout the year by the Planning Department.</i>	<i>Document inspections and actions.</i>	<i>Planning/Mr. Glidden</i>	<i>Completed under previous permit-ongoing throughout the permit life.</i>	
4-5 Implement procedure to allow public comment on site development (Ongoing)	<i>Ongoing</i>	<i>Planning, Zoning, and Conservation Commission meetings allow for public comment on all applications.</i>	<i>Provide an opportunity for public comment/involvement.</i>	<i>Planning</i>	<i>Completed under previous permit-ongoing throughout the permit life.</i>	
4-6 Implement procedure to notify developers about DEEP construction stormwater permit (Ongoing)	<i>Completed</i>	<i>Continue notification to developers via staff comments.</i>	<i>Include comment to applications.</i>	<i>Planning/Engineering</i>	<i>Completed under previous permit-ongoing throughout permit life.</i>	

additional BMP: 4-7 Require Waste Control On-Site	<i>In progress</i>	<i>The Town currently requires permit on an as-needed basis. The Town also conducts inspections throughout construction as well.</i>	<i>Notify developers about DEEP permitting obligations</i>	<i>Planning/Engineering.</i>	<i>Completed-continued throughout permit lifetime.</i>	
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4.2 Describe any Construction Site Runoff Control activities planned for the next year, if applicable.

Any approved project is required to produce an erosion and sedimentation control plan.

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)	Ongoing	Currently, LID is a suggested practice on all sizable projects throughout the Town, in order to obtain zero output to the Town's DCIA.	Adopt BMPs for any activity, operation, or facility which may cause or contribute to the pollution or contamination of stormwater, the storm drain system, or waters of the U.S.	Planning	Ongoing-started in 2018	
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects (Due 7/1/22)	Completed	All site designs are required to maintain pre-construction flows. Local permits for the Town Hall and Performing Arts Center parking lots were permitted in 2021, and were completed in 2022 following LID /Runoff reduction requirements. Enforcement actions related to LID and runoff restrictions throughout the Town were not warranted in 2022.	Enforce regulations and guidelines of LID and runoff reductions.	Engineering/ Department of Public Works	June 30 th , 2021	
5-3 Identify retention and detention ponds in priority areas (Due 7/1/20)	Completed	Surface detention facilities and most drywells were added to GIS.	Compile a list and complete mapping of Town-owned detention basins.	Engineering/ Department of Public Works	July 1, 2019	
5-4 Implement long-term maintenance plan for stormwater basins and treatment structures (Ongoing)	Completed	The Department of Public Works inspects facilities annually, and performs maintenance as needed.	Annually inspect and maintain facilities.	Department of Public Works	Completed under previous permit-ongoing throughout permit life.	

		<i>The stormwater settling basin located at the Department of Public Works, had maintenance performed, including gentle sloping and the addition of rip-rap prior to exiting the site through the associated catch basin.</i>				
5-5 DCIA mapping (Due 7/1/20)	Completed	<i>DCIA was calculated for the Town with the assistance of Nathan L. Jacobson & Associates. Atlas has mapped the DCIA areas.</i>	<i>Provide an understanding of the Town's overall DCIA to the MS4 infrastructure.</i>	<i>Engineering/ Tom Roy</i>	<i>August 2021</i>	
5-6 Address post-construction issues in areas with pollutants of concern	In Progress	<i>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 Simsbury will prioritize these areas for DCIA retrofit projects.</i>	<i>Address post-construction areas where erosion or high accumulation of sedimentation are found during annual inspections.</i>	<i>Engineering/ Department of Public Works</i>	<i>Ongoing-Started in 2021</i>	

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

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

5.3 Post-Construction Stormwater Management reporting metrics

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

Metrics	
Baseline (2012) Directly Connected Impervious Area (DCIA)	92.51 acres
DCIA disconnected (redevelopment plus retrofits)	acres this year (TBD) / acres total (TBD)
Retrofit projects completed	Under development
DCIA disconnected	% this year (TBD) / % total since 2012 (TBD)
Estimated cost of retrofits	\$TBD
Detention or retention ponds identified	10/10

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 $DCIA\% = 0.01 \cdot (IA\%)^{2.0}$

For an impervious area between 6% and 12 %:

50% of the area was assigned to the partial connectivity Sutherland Equation where $DCIA\% = 0.04 \cdot (IA\%)^{1.7}$

and

50% was assigned to the average connectivity Sutherland Equation where $DCIA\% = 0.10 \cdot (IA\%)^{1.5}$

For an impervious area between 12% and 18 %:

50% of the area was assigned to the average connectivity Sutherland Equation where $DCIA\% = 0.10 \cdot (IA\%)^{1.5}$

and

50% was assigned to the high connectivity Sutherland Equation where $DCIA\% = 0.40 \cdot (IA\%)^{1.2}$

For an impervious area of greater than 18 %:

100% of the area was assigned to the high connectivity Sutherland Equation where $DCIA\% = 0.40 \cdot (IA\%)^{1.2}$

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)	<i>Ongoing throughout permit lifetime.</i>	<i>All DPW personnel are trained with proper stormwater management procedures and spill control.</i>	<i>Eliminate non- stormwater discharges into the storm sewers</i>	<i>Engineering/Department of Public Works/Planning</i>	Atlas: Annual Stormwater training completed 12/20/2022 ATC: Annual Staff Training- 09/22/2020 J. Shea: Engineering- East Lyme Stormwater BMP and MS4 Workshop: 4/27/2018 <i>Challenges and Practical Solutions to MS4s: 5/23/2018</i> <i>In-House training by Tighe&Bond: 10/09/2018</i> <i>CT MS4 Mapping Workshop: 10/19/2018</i>	
6-2 Implement MS4 property and operations maintenance (Ongoing)	<i>Completed</i>	<i>The Parks Department revised the carry-in/out policy from 2017 in response to the deposition of trash at key parks. Most parks remain carry-in/out.</i>	<i>Eliminates/minimizes spills and/or pollutant releases to the environment and navigable waterways.</i>	<i>Parks/Department of Public Works</i>	<i>Ongoing throughout permit life.</i>	<i>Municipally owned or operated properties, parks, and other facilities are maintained to minimize the discharge of pollutants to the MS4. Eleven (11) stormwater infiltrators were installed throughout various locations on Town-owned properties and/or roads. Mapping of the newly installed</i>

						stormwater infiltrators will be completed in 2023.
6-3 Implement coordination with interconnected MS4s	Ongoing	Coordination of the MS4 interconnection mapping began in 2019. CTDOT interconnections have been mapped, and coordination between the Town and surrounding areas is ongoing.	Update the GIS system with interconnected locations.	Engineering/J. Shea	Ongoing-Started in 2021	GIS updates will continue with assistance from New England Geosystems, as well as Atlas.
6-4 Develop/implement program to control other sources of pollutants to the MS4	Completed	A spill response team has been developed in coordination between the Town and Atlas.	Reduce other possible pollutants to the MS4.	Department of Public Works/Atlas	October 1, 2020-ongoing throughout permit life.	A plan of action for emergency spills has been created, and is as follows: The Town will immediately notify Atlas of a spill. Atlas will provide spill response and guidance, including but not limited to coordinating the elimination of any spill flow to navigable waterways, spill cleanup, reporting, etc.
6-5 Evaluate additional measures for discharges to impaired waters*	Ongoing	Wet weather sampling events have been conducted, and priority outfalls were identified throughout the Town. Dry weather inspections are continuing to be conducted for the entirety of the Town. As catchments are investigated, the Town will coordinate with Atlas on future measures pertaining to the reduction of bacteria discharge to impaired waters.	Pending further investigations create a program or plan of action to reduce bacterial discharge to impaired waters.	Engineering/J. Shea	Ongoing-Started in 2020	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.	Engineering/J. Shea	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	The DPW recently rehabilitated the on-site settling basin, including a gentle sloping of the basin, and the addition of riprap prior to the associated catch basin. There were no infrastructures found within the Town that required repair or rehabilitation. The Town continues to assess and implement repairs or rehabilitation on an as-needed basis.	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/Tom Roy	Ongoing throughout permit life.	
6-8 Develop/implement plan to identify/prioritize retrofit projects (Due 7/1/20)	Ongoing	A Stormwater Retrofit Program has been drafted. Prioritized areas and/or sites were identified based off DCIA calculations, impaired waterbodies, current stormwater infrastructure, and the MEP of the Town.	Develop retrofit projects	Planning/Engineering	Ongoing-Started in 2021	See "Retrofit Program"
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/Tom Roy	Ongoing-Started in 2021	See "Retrofit Program"

6-10 Develop/implement street sweeping program (Ongoing)	Completed	<i>The Department of Public Works sweeps all roads in the Town of Simsbury following the winter season.</i>	<i>Track swept lane miles.</i>	<i>Department of Public Works/Tom Roy</i>	<i>Completed under previous permit-ongoing throughout permit life.</i>	
6-11 Develop/implement catch basin cleaning program (Ongoing)	Completed	<i>Public Woks utilizes Shaw Vac, a third-party vendor to clean 20% of catch basins each year.</i>	<i>Track material usage, and update plan as needed.</i>	<i>Department of Public Works/Tom Roy</i>	<i>Completed under previous permit-ongoing throughout permit life.</i>	
6-12 Develop/implement snow management practices (Due 7/1/18)	Completed	<i>Snow management per the Town's MS4 plan is implemented on an annual basis.</i>	<i>Track material usage, and update plan as needed.</i>	<i>Department of Public Works/Tom Roy</i>	<i>Completed under previous permit-ongoing throughout permit life.</i>	<i>The Town of Simsbury has ceased sand application to Simsbury-owned roadways. Roadway de-icing and anti-icing procedures are utilized to minimize discharge. Simsbury also maintains a record of the applications of anti-icing and/or de-icing chemicals used.</i>

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

General inspections are to be performed throughout the year, with support from Atlas. Training to applicable employees will be completed as well.

6.3 Pollution Prevention/ Good Housekeeping reporting metrics

Metrics	
Employee training provided for key staff	Yes: Annual training for the DPW staff was completed 12/20/2022.
Street sweeping	
Curb miles swept	330miles
Volume (or mass) of material collected	417 cu.yds.
Catch basin cleaning	
Total catch basins in priority areas (value will be less than or equal to total catch basins town or institution-wide)	3,999
Total catch basins town- (or institution-) wide	4,071
Catch basins inspected	1036

Catch basins cleaned	1036
Volume (or mass) of material removed from all catch basins	518 cu.yds
Volume removed from catch basins to impaired waters (if known)	TBD
Snow management	
Type(s) of deicing material used	Treated Clearelane
Total amount of each deicing material applied	2,436 tons
Type(s) of deicing equipment used	Truck
Lane-miles treated (A lane-mile is a mile of roadway in a single driving lane)	9,744
Snow disposal location	N/A
Staff training provided on application methods & equipment	Annual Basis
Municipal turf management program actions (for permittee properties in basins with N/P impairments)	
Reduction in application of fertilizers (since start of permit)	N/A
Reduction in turf area (since start of permit)	N/A
Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems)	
Cost of mitigation actions/retrofits	TBD

6.4 Catch basin cleaning program

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

The Town of Simsbury is currently operating on an approximate 3-year cycle for catch basin cleanings. Excessive depositing of sediment in structures has not been encountered since the Town ceased the use of sand to treat roadways during the winter months. Any structures that are determined to have excessive depositing of sediment will have a shorter cycle for cleanings.

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

$$DCIA\% = 0.4 * (IA\%)^{1.2}$$

$$\text{Directly Connected Area} = (DCIA)(IC \text{ Acres})$$

Average Connectivity

$$DCIA\% = 0.1 * (IA\%)^{1.5}$$

$$\text{Directly Connected Area} = (DCIA)(IC \text{ Acres})$$

Partial Connectivity

$$DCIA\% = 0.04 * (IA\%)^{1.7}$$

$$\text{Directly Connected Area} = (DCIA)(IC \text{ Acres})$$

Slight Connectivity

$$\text{DCIA\%} = 0.01 * (\text{IA\%})^2.0$$

$$\text{Directly Connected Area} = (\text{DCIA})(\text{IC Acres})$$

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 Classifications, which was imported into ArcGIS for calculation purposes. Utilizing the Overlay-Intersect Tool, Atlas was able to extract the total Urbanized Area acreage per catchment, and then calculate the Urbanized area percentage per catchment utilizing the following formula: Based on these calculations, 49 catchments were identified with Urbanized Areas

$$\text{Urbanized Area (Ac.)} / \text{Basin Total Acreage} * 100$$

22 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. 50 catchments were identified as Problem or High Priority.

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

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

The draft Stormwater Retrofit Program is attached to this Annual Report.

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, which was previously included in the 2021 Annual report, is designed to comply with *Section (6) (B) (ii)* of the CTDEEP 2017-2022 MS4 Permit. The Town of Simsbury 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/ms4/tasks/monitoring.htm>. Refer to the yellow column of the Monitoring comparison chart and the Impaired waters monitoring flowchart.

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

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

1.2 Describe program status

Discuss 1) the status of monitoring work completed, 2) a summary of the results and any notable findings, and 3) any changes to the Stormwater Management Plan based on monitoring results.

2018

The Town of Simsbury began wet weather testing in 2018. Ten (10) outfalls were monitored for Bacteria during two eligible storm events in 2018.

2019

Twenty-three (23) additional outfalls were monitored in 2019 for Bacteria. The first two (2) years of wet weather testing was intended to achieve a well-represented sample of the drainage systems discharging from the two (2) impaired streams in the Town of Simsbury. All outfalls monitored in 2019 tested positive for bacteria.

2020

Twenty-eight (28) outfalls were monitored during dry-weather inspections in 2020.

2021

Thirty-nine (39) outfalls were monitored during dry-weather inspections in 2021. Seventeen (17) outfalls to impaired waterbodies were sampled during storm events, including six (6) priority outfalls.

2022

Sixty-six (66) outfalls were monitored during dry-weather inspections in 2022 throughout the entirety of the Town. 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 **Attachment II** for the documented dry weather screenings. Refer to **Attachment III** for sampling conducted during dry-weather inspections.

Dry weather inspections throughout the entirety of the Town will continue into the following year, to be conducted again in the spring. Further investigations into SSOs is necessary to make determinations on whether the bacterial impairments are the results of IDDE or natural background conditions for outfalls to impaired waterbodies. Changes to the Stormwater Management Plan are not recommended at this time.

Six (6) priority outfalls were sampled during storm events. All outfalls tested positive for bacteria, and trended lower or comparable in bacteria levels. Refer to **Attachment I** for the priority outfall analytical results. Samples were also collected by the Farmington River Watershed Association (FRWA) at ten outfalls throughout the Town. Four (4) of these outfalls discharge directly to an impaired waterbody. Sampling parameters included bacteria and chlorine. The ten outfalls have been flagged for follow-up investigation based on analytical results. Refer to **Attachment IV** for the FRWA analytical results.

Sampling was completed at one (1) outfall in 2022 by the CTDOT. This outfall is not considered an interconnection; as such, analytical data for this outfall has not been included in this report.

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

2.1 Screening data

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

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

Outfall ID	Latitude / Longitude	Sample date	Parameter (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	Results	Name of Laboratory (if used)	Follow-up required? *
OF-910	41.88905306/ -72.80819448	6/25/2019	Bacteria	E. Coli- 98 (col/100 mL)	Phoenix	No
OF-911	41.8886954/ -72.80846182	6/25/2019	Bacteria	E. Coli- 571 (col/100 mL)	Phoenix	Yes
OF-168	41.88823351/ -72.8089843	6/25/2019	Bacteria	E. Coli- 98 (col/100 mL)	Phoenix	No
OF-169	41.88774205/ -72.80961694	6/25/2019	Bacteria	E. Coli- 3,080 (col/100 mL)	Phoenix	Yes
OF-380	41.88750962/ -72.80344765	6/25/2019	Bacteria	E. Coli- 1,580 (col/100 mL)	Phoenix	Yes
OF-379	41.88884969/ -72.80658787	6/25/2019	Bacteria	E. Coli- 10 (col/100 mL)	Phoenix	No
OF-378	41.88739613/ -72.80831462	6/25/2019	Bacteria	E. Coli- 4,110 (col/100 mL)	Phoenix	Yes
OF-902	41.88718797/ -72.81036964	6/25/2019	Bacteria	E. Coli- 3,650 (col/100 mL)	Phoenix	Yes
OF-968		6/25/2019	Bacteria	E. Coli- 144 (col/100 mL)	Phoenix	No
OF-501	41.87273507/ -72.83235225	6/25/2019	Bacteria	E. Coli- 408 (col/100 mL)	Phoenix	No
OF-503	41.87272976/ -72.83229093	6/25/2019	Bacteria	E. Coli- 723 (col/100 mL)	Phoenix	Yes
OF-495	41.87440234/ -72.83293641	6/25/2019	Bacteria	E. Coli- 364 (col/100 mL)	Phoenix	No
OF-504	41.87451348/ -72.83285623	6/25/2019	Bacteria	E. Coli- 816 (col/100 mL)	Phoenix	Yes
OF-301	41.88259452/ -72.83419684	6/25/2019	Bacteria	E. Coli- 10 (col/100 mL)	Phoenix	No
OF-35	41.88778586/ -72.84058095	6/25/2019	Bacteria	E. Coli- 6,870 (col/100 mL)	Phoenix	Yes
OF-37	41.88568897/ -72.84641664	6/25/2019	Bacteria	E. Coli- 189 (col/100 mL)	Phoenix	No
OF-36	41.8852679/ -72.84631145	6/25/2019	Bacteria	E. Coli- 63 (col/100 mL)	Phoenix	No
OF-293	41.88509391/ -72.84514983	6/25/2019	Bacteria	E. Coli- 7,700 (col/100 mL)	Phoenix	Yes

OF-318	41.88613866/ -72.84985181	6/25/2019	Bacteria	E. Coli- 4,350 (col/100 mL)	Phoenix	Yes
OF-38	41.88370386/ -72.84949036	6/25/2019	Bacteria	E. Coli- 464 (col/100 mL)	Phoenix	No
OF-58	41.88474086/ -72.85531201	6/25/2019	Bacteria	E. Coli- 1,480 (col/100 mL)	Phoenix	Yes
OF-55	41.88326701/ -72.85684297	6/25/2019	Bacteria	E. Coli- 3,650 (col/100 mL)	Phoenix	Yes
OF-310	41.88107918/ -72.851826	6/25/2019	Bacteria	E. Coli- 1,310 (col/100 mL)	Phoenix	Yes
2021						
OF-136	41.90866471/ -72.76008183	6/14/2021	Bacteria	E. coli- 2,990 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix	Yes
OF-139	41.91110774/ -72.76177019	6/14/2021	Bacteria	E. coli- 7,700 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix	Yes
OF-133	41.91185769/ -72.76400447	6/14/2021	Bacteria	E. coli- 6,130 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix	Yes
OF-132	41.91224077/ -72.76441768	6/14/2021	Bacteria	E. coli- 24,200 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix	Yes
OF-131	41.91040665/ -72.77161854	6/14/2021	Bacteria	E. coli- 132 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix	
OF-877	41.90885745/ -72.77293044	6/14/2021	Bacteria	E. coli- 4,350 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix	Yes
OF-129	41.90645829/ -72.77391842	6/14/2021	Bacteria	E. coli- 5,480 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix	Yes
OF-870	41.90492486/ -72.77430193	6/14/2021	Bacteria	E. coli- 19,900 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix	Yes
OF-715	41.88540684/ -72.79728946	6/14/2021	Bacteria	E. coli- 644 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix	Yes
OF-713	41.88482698/ -72.79817292	6/14/2021	Bacteria	E. coli- 24,200 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix	Yes
OF-160	41.88502542/ -72.79905452	6/14/2021	Bacteria	E. coli- 809 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix	Yes
OF-877	41.90885745/ -72.77293044	9/1/2021	Bacteria	E. coli- 3,080 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix	Yes
OF-129	41.90645829/ -72.77391842	9/1/2021	Bacteria	E. coli- 15,500 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix	Yes
OF-132	41.91224077/ -72.76441768	9/1/2021	Bacteria	E. coli- 6,130 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix	Yes
OF-870	41.90492486/ -72.77430193	9/1/2021	Bacteria	E. coli- 14,100 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix	Yes
OF-139	41.91110774/ -72.76177019	9/1/2021	Bacteria	E. coli- >24,200 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix	Yes
OF-713	41.88482698/ -72.79817292	9/1/2021	Bacteria	E. coli- 9,210 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix	Yes
2022						
OF-877	41.90885745/ -72.77293044	9/22/2022	Bacteria	E. coli- 1,380 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix	Yes
OF-129	41.90645829/ -72.77391842	9/22/2022	Bacteria	E. coli- 17,300 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix	Yes
OF-132	41.91224077/ -72.76441768	9/22/2022	Bacteria	E. coli- 2,490 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix	Yes
OF-870	41.90492486/ -72.77430193	9/22/2022	Bacteria	E. coli- 3,650 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix	Yes
OF-139	41.91110774/ -72.76177019	9/22/2022	Bacteria	E. coli- 6,870 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix	Yes

OF-713	41.88482698/ -72.79817292	9/22/2022	Bacteria	E. coli- 11,200 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix	Yes
MS-S1	41.837236/ -72.816546	5/27/2022	Chlorine	Refer to Attachment IV for analytical data.	Unknown	Yes
		6/21/2022	Bacteria, Chlorine	Refer to Attachment IV for analytical data.	Unknown	Yes
		7/12/2022	Bacteria, Chlorine	Refer to Attachment IV for analytical data.	Unknown	Yes
		7/26/2022	Bacteria	Refer to Attachment IV for analytical data.	Unknown	Yes
		8/9/2022	Bacteria	Refer to Attachment IV for analytical data.	Unknown	Yes
		8/18/2022	Bacteria, Chlorine	Refer to Attachment IV for analytical data.	Unknown	Yes
		8/23/2022	Bacteria	Refer to Attachment IV for analytical data.	Unknown	Yes
		9/8/2022	Bacteria	Refer to Attachment IV for analytical data.	Unknown	Yes
		11/10/2022	Bacteria, Chlorine	Refer to Attachment IV for analytical data.	Unknown	Yes
FR-S1	41.847538/ -72.807207	5/27/2022	Chlorine	Refer to Attachment IV for analytical data.	Unknown	Yes
		6/21/2022	Bacteria, Chlorine	Refer to Attachment IV for analytical data.	Unknown	Yes
		7/12/2022	Chlorine	Refer to Attachment IV for analytical data.	Unknown	Yes
		7/26/2022	Bacteria	Refer to Attachment IV for analytical data.	Unknown	Yes
		8/9/2022	Bacteria	Refer to Attachment IV for analytical data.	Unknown	Yes
		8/18/2022	Chlorine	Refer to Attachment IV for analytical data.	Unknown	Yes
		8/23/2022	Bacteria	Refer to Attachment IV for analytical data.	Unknown	Yes
		9/8/2022	Bacteria	Refer to Attachment IV for analytical data.	Unknown	Yes
		11/14/2022	Chlorine	Refer to Attachment IV for analytical data.	Unknown	Yes
FR-S2 WPCF Outfall	-72.807207/ -72.796802	6/21/2022	Bacteria	Refer to Attachment IV for analytical data.	Unknown	Yes
		7/12/2022	Bacteria	Refer to Attachment IV for analytical data.	Unknown	Yes
		7/26/2022	Bacteria	Refer to Attachment IV for analytical data.	Unknown	Yes
		8/9/2022	Bacteria	Refer to Attachment IV for analytical data.	Unknown	Yes
		9/8/2022	Bacteria	Refer to Attachment IV for analytical data.	Unknown	Yes
		8/23/2022	Bacteria	Refer to Attachment IV for analytical data.	Unknown	Yes
FR-S3	41.869387/ -72.792385	1/14/2022	Chlorine	Refer to Attachment IV for analytical data.	Unknown	Yes
		1/18/2022	Chlorine	Refer to Attachment IV for analytical data.	Unknown	Yes
		6/21/2022	Bacteria	Refer to Attachment IV for analytical data.	Unknown	Yes

	7/12/2022	Bacteria	Refer to Attachment IV for analytical data.	Unknown	Yes
	7/26/2022	Bacteria	Refer to Attachment IV for analytical data.	Unknown	Yes
	8/9/2022	Bacteria	Refer to Attachment IV for analytical data.	Unknown	Yes
	8/23/2022	Bacteria	Refer to Attachment IV for analytical data.	Unknown	Yes
	9/8/2022	Bacteria	Refer to Attachment IV for analytical data.	Unknown	Yes

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

Pollutant of concern	Pollutant threshold
Nitrogen	Total N > 2.5 mg/l
Phosphorus	Total P > 0.3 mg/l
Bacteria (fresh waterbody)	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-129	Investigations are being conducted on the surrounding drainage area, with a focus on surrounding runoff from agricultural land, septic repairs, and septic failures.	The WPCF cleaned sewer lines in the area of this outfall in 2022. Sampling data in comparison to the previous year indicated a slight increase in bacteria.
OF-870	Investigations are being conducted on the surrounding drainage area, with a focus on surrounding runoff from agricultural land, septic repairs, and septic failures.	The WPCF cleaned sewer lines in the area of this outfall in 2022. Sampling data in comparison to the previous year indicates a significant drop in bacteria.
OF-877	Investigations are being conducted on the surrounding drainage area, with a focus on surrounding runoff from agricultural land, septic repairs, and septic failures.	The WPCF cleaned sewer lines in the area of this outfall in 2022. Sampling data in comparison to the previous year indicates a significant drop in bacteria.
All above listed outfalls in Section 2.1 of this report.	Investigations are being conducted on the surrounding drainage area, with a focus on surrounding runoff from agricultural land, septic repairs, and septic failures.	Potential measures that may be used in addressing bacterial impairments include aquatic vegetative buffers, control runoff measures implemented. Discussions are underway within the Town on how to address potential septic failures or repairs at privately-owned properties.

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

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

Outfall	Latitude / Longitude	Sample Date	Parameter(s)	Results	Name of Laboratory (if used)
OF-877	41.90885745/ -72.77293044	6/14/2021	Bacteria	E. coli- 4,350 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix
OF-129	41.90645829/ -72.77391842	6/14/2021	Bacteria	E. coli- 5,480 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix
OF-132	41.91224077/ -72.76441768	6/14/2021	Bacteria	E. coli- 24,200 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix
OF-870	41.90492486/ -72.77430193	6/14/2021	Bacteria	E. coli- 19,900 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix
OF-139	41.91110774/ -72.76177019	6/14/2021	Bacteria	E. coli- 7,700 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix
OF-713	41.88482698/ -72.79817292	6/14/2021	Bacteria	E. coli- 24,200 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix
OF-877	41.90885745/ -72.77293044	9/1/2021	Bacteria	E. coli- 3,080 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix
OF-129	41.90645829/ -72.77391842	9/1/2021	Bacteria	E. coli- 15,500 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix
OF-132	41.91224077/ -72.76441768	9/1/2021	Bacteria	E. coli- 6,130 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix
OF-870	41.90492486/ -72.77430193	9/1/2021	Bacteria	E. coli- 14,100 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix
OF-139	41.91110774/ -72.76177019	9/1/2021	Bacteria	E. coli- >24,200 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix
OF-713	41.88482698/ -72.79817292	9/1/2021	Bacteria	E. coli- 9,210 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix
2022					
OF-877	41.90885745/ -72.77293044	9/22/2022	Bacteria	E. coli- 1,380 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix
OF-129	41.90645829/ -72.77391842	9/22/2022	Bacteria	E. coli- 17,300 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix
OF-132	41.91224077/ -72.76441768	9/22/2022	Bacteria	E. coli- 2,490 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix
OF-870	41.90492486/ -72.77430193	9/22/2022	Bacteria	E. coli- 3,650 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix
OF-139	41.91110774/ -72.76177019	9/22/2022	Bacteria	E. coli- 6,870 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix
OF-713	41.88482698/ -72.79817292	9/22/2022	Bacteria	E. coli- 11,200 (MPN/100 mL) T. coli- >24,200 (MPN/100 mL)	Phoenix

Part III: Additional IDDE Program Data

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

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

1. Catchment ID (DEEP Basin ID)	2. Category	3. Rank
4300-00-5+R10	Problem	8
4300-00-5+R11	Problem	8
4300-00-5+R12	Problem	9
4300-00-5+R13	Problem	9
4300-00-5+R14	Problem	8
4300-00-5+R15	Problem	7
4300-00-5+R16	Problem	8
4300-00-5+R17	Problem	9
4300-00-5+R18	Problem	9
4300-00-5+R19	High Priority	10
4300-00-5+R20	Problem	8
4300-00-5+R21	Problem	9
4300-00-5+R22	Problem	9
4300-00-5+R8	Problem	9
4300-00-5+R9	Problem	9
4300-32-1	High Priority	13
4300-33-1	High Priority	10
4300-34-1	Problem	8
4300-35-1	Problem	6
4300-36-1*	Problem	8
4300-37-1	Problem	9
4300-38-1	Problem	6
4300-39-1	High Priority	13
4300-39-2-R1	Problem	7
4300-40-1	Low Priority	5
4300-41-1	Problem	9
4300-42-1	High Priority	11
4300-43-1	Problem	9
4300-44-1	High Priority	14
4300-44-1-L1	High Priority	14
4300-47-1	Low Priority	5
4309-02-1	Low Priority	5
4309-03-1	Low Priority	5

4317-00-1	High Priority	17
4317-00-2-L1	High Priority	17
4317-00-2-R1	High Priority	15
4317-01-1	High Priority	11
4318-00-1	High Priority	17
4318-00-1-L1	High Priority	15
4318-00-2-R1	High Priority	16
4318-00-2-R2	High Priority	19
4318-00-3-R1	High Priority	12
4318-00-3-R2	High Priority	17
4318-01-1	Problem	9
4318-02-1	Problem	8
4318-02-1-L1	Problem	6
4318-03-1	High Priority	10
4318-03-2-R1	High Priority	11
4318-04-1	High Priority	11
4318-04-1-L1	High Priority	10
4318-05-1	High Priority	11
4318-06-1	Problem	7
4319-10-1	Problem	8
4319-10-2-L1	Problem	7
4319-11-1	Low Priority	5

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/ms4/tasks/monitoring.htm>. Refer to the blue column of the Monitoring comparison chart and the IDDE baseline monitoring flowchart.

Provide sample data for outfalls where flow is observed. Only include Pollutant of concern data for outfalls that discharge into stormwater impaired waterbodies. **You may also attach an excel spreadsheet with the same data rather than copying it to this table.** If you do attach a spreadsheet, please write “See Attachment” below.

Outfall / Interconnection ID	Latitude / Longitude	Screening / sample date	Ammonia	Chlorine	Conductivity	Salinity	E. coli or enterococcus	Surfactants	Water Temp	Pollutant of concern	If required, follow-up actions taken
OF-139	41.91111544/ -72.76177433	4/7/2021	0.08 mg/L	<0.02 mg/L	408 umhos/cm	<0.5 ppt	E.coli-845 MPN/100 mL	<0.05	-	Bacteria	Results of this flow from dry weather indicated a potential bacterial impact; however, further

											<i>investigation is needed to confirm whether the bacterial impact is naturally occurring.</i>
OF-967	41.87013558/ -72.82341016	6/14/2021	<0.05 mg/L	<0.02 mg/L	203 umhos/cm	<0.5 ppt	E. Coli-10 MPN/100mL	<0.05 mg/L	-	Bacteria	<i>Results of this dry weather flow are indicative of groundwater influence, and not an Illicit Discharge.</i>
OF-759	41.90161796/ -72.79838013	7/1/2022	0.06 mg/L	<0.02 mg/L	279 umhos/cm	16.9 ppt	--	0.08 mg/L	-	Bacteria	<i>Results of this flow from dry weather indicated a potential salinity impact; however, further investigation is needed to confirm whether the salinity is naturally occurring.</i>

2.2 Wet weather sample and inspection data

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

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

Outfall / Interconnection ID	Latitude / Longitude	Sample date	Ammonia	Chlorine	Conductivity	Salinity	E. coli or Enterococcus	Surfactants	Water Temp	Pollutant of concern
OF-136	41.90866471/ -72.76008183	6/14/2021	--	--	39.1 uS/cm	--	2,990 (MPN/100 mL)	--	19°C	Bacteria
System Vulnerability Factors are currently under investigation, and will be added to the next annual report. Refer to Section 1: Catchment Investigation Data, 3.1 System Vulnerability Factor Summary for more information.										

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

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

3.1 System Vulnerability Factor Summary

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

Outfall ID	Receiving Water	System Vulnerability Factors
OF-22	Nod Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-23	Nod Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-24	Nod Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-28	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-125	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-127	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-136	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-137	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-138	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-190	Hop Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-191	Hop Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-359	Hop Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-465	Nod Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-466	Nod Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-468	Nod Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-469	Nod Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-470	Nod Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-471	Nod Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-475	Hop Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-476	Hop Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-482	Nod Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-483	Hop Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-487	Hop Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-548	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-927	Hop Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-929	Hop Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.

OF-843	Hop Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-566	Hop Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-567	Hop Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-568	Nod Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-569	Nod Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-574	Nod Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-575	Nod Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-576	Nod Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-588	Nod Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-589	Hop Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-597	Nod Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-598	Nod Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-600	Nod Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-640	Hop Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-740	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-742	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-743	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-770	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-771	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-860	Farmington River	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
OF-961	Nod Brook	This outfall was found within 500 ft. of a residential septic failure, and as such, is considered to contribute SVF #12.
<i>The Town of Simsbury's sanitary sewer is currently managed by the Town of Simsbury's Water Pollution Control Facility (WPCF). The storm sewer and sanitary sewer have historically been separate, and remain so in the present day. Therefore, SVFs 4, 5, 6, 7, 8, and 9 are generally not applicable to the Town. Other SVFs are currently under investigation, and will be updated in the next annual report. These investigations include coordination between the WPCF, as well as the Farmington Valley Health District.</i>		

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 than 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 than 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 dry weather inspections, follow-up wet weather sampling will be completed where inspections indicate the presence of one or more SVF, SSO, or illicit discharges.					

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

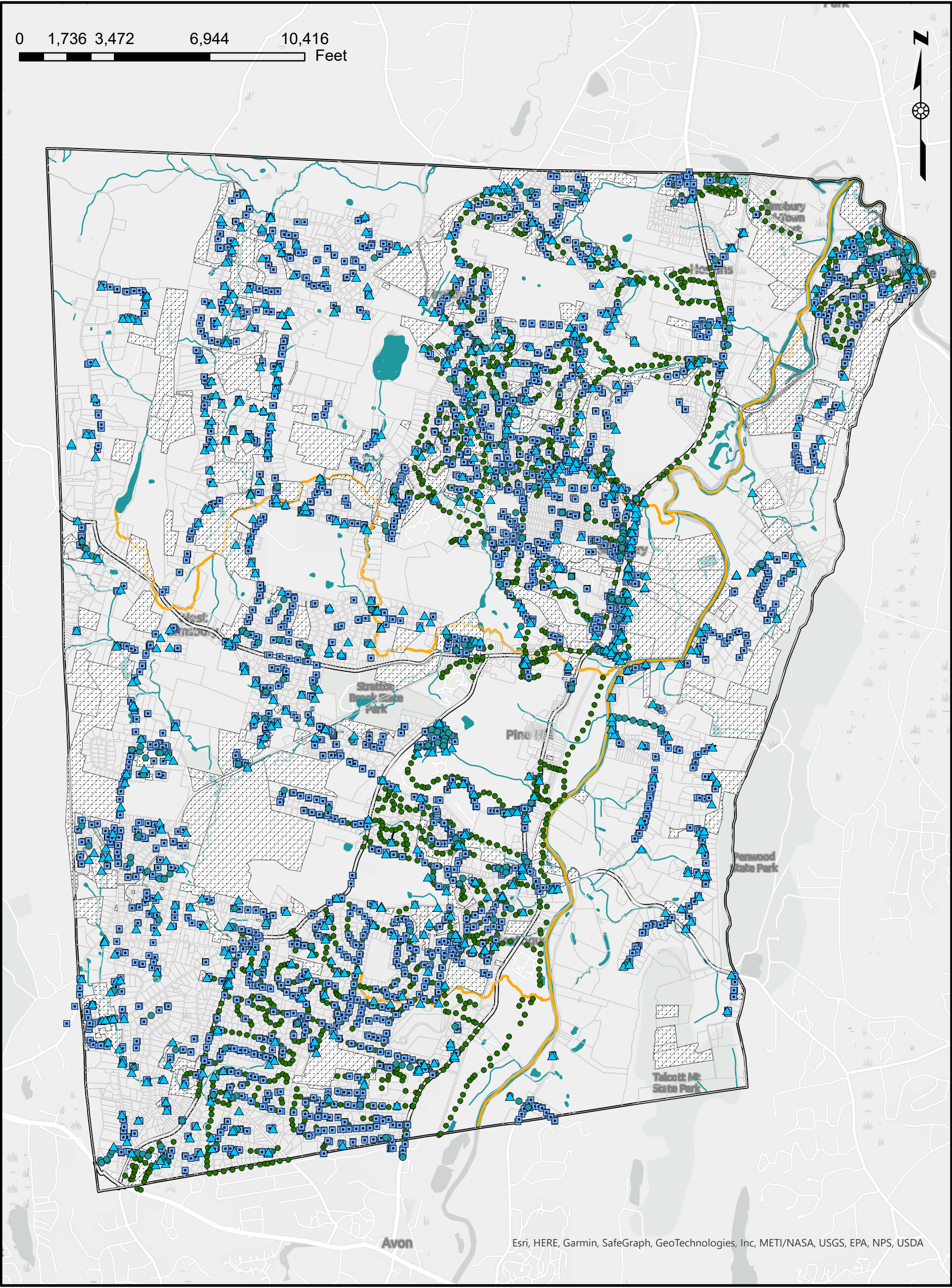
Discharge location	Source location	Discharge description	Method of discovery	Date of discovery	Date of elimination	Mitigation or enforcement action	Estimated volume of flow removed
OF-139	Under investigation	Slight yellow tint, no foam.	Dry Weather Inspection	4/7/2021	TBD	TBD	Unknown
OF-759	Under investigation	Discharging from solar farm onto road.	Dry Weather Inspection	7/1/2022	TBD	TBD	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: Maria E. Capriola	Print name: Kay Lehoux-Environmental Compliance Manager, Atlas
Signature / Date:  April 5, 2023	Signature / Date:  4/3/2023
Email: mcapriola@simsbury-ct.gov	Email: kay.lehoux@oneatlas.com

FIGURES



Legend

- ▲ Outfall
- Stormwater Manhole
- Catch Basin
- Sewer Manhole
- ⋯ Town-Owned Properties
- ▨ Municipal Owned Property

- ▨ Drainage Easement
- Parcel
- ▬ Town Line
- Impaired Waterbody
- Surface Water
- State Road

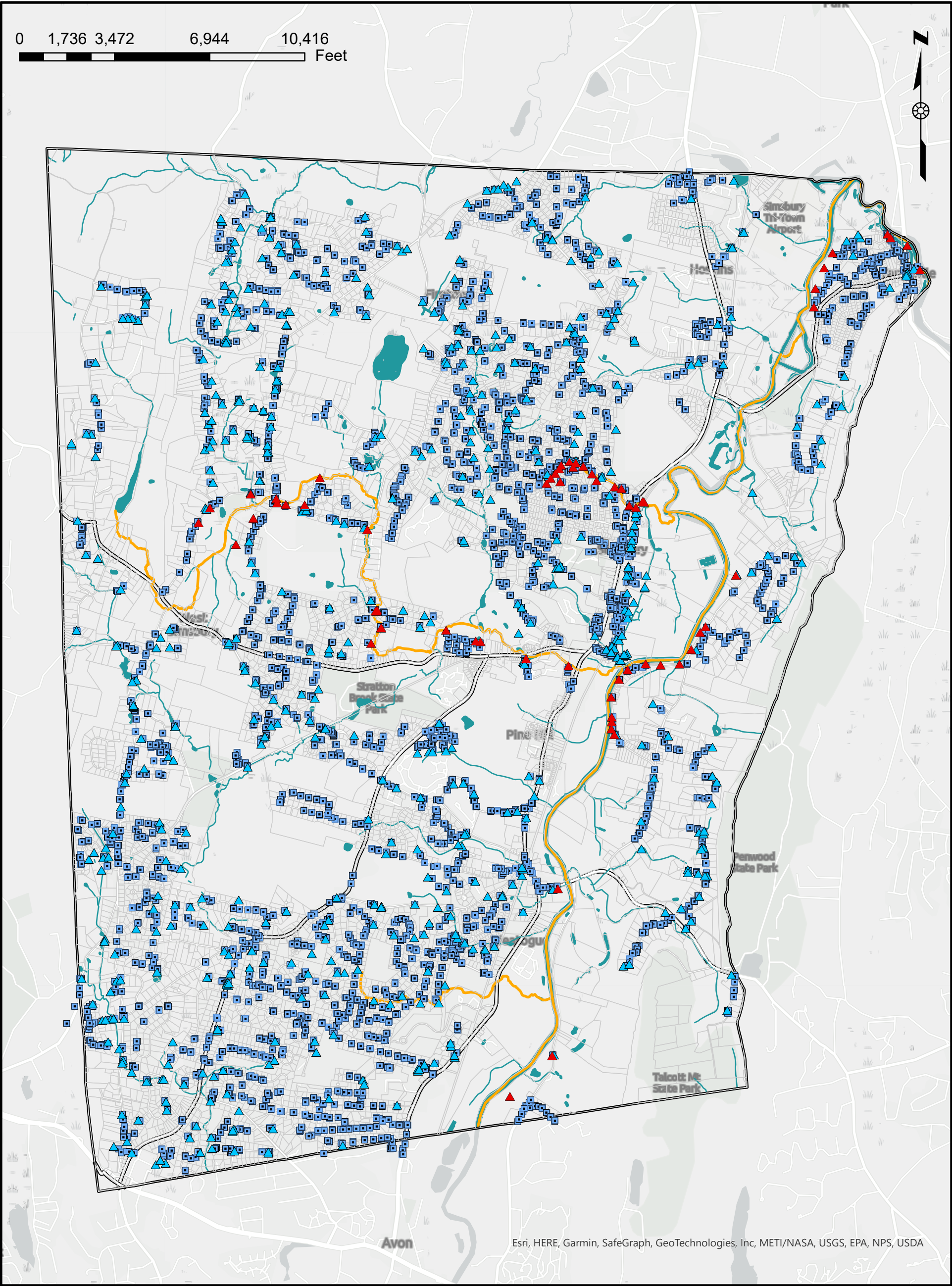
Town of Simsbury

2022 Annual Report

MS4 System



290 Roberts Street, Suite 301
East Hartford, CT 006108



Legend

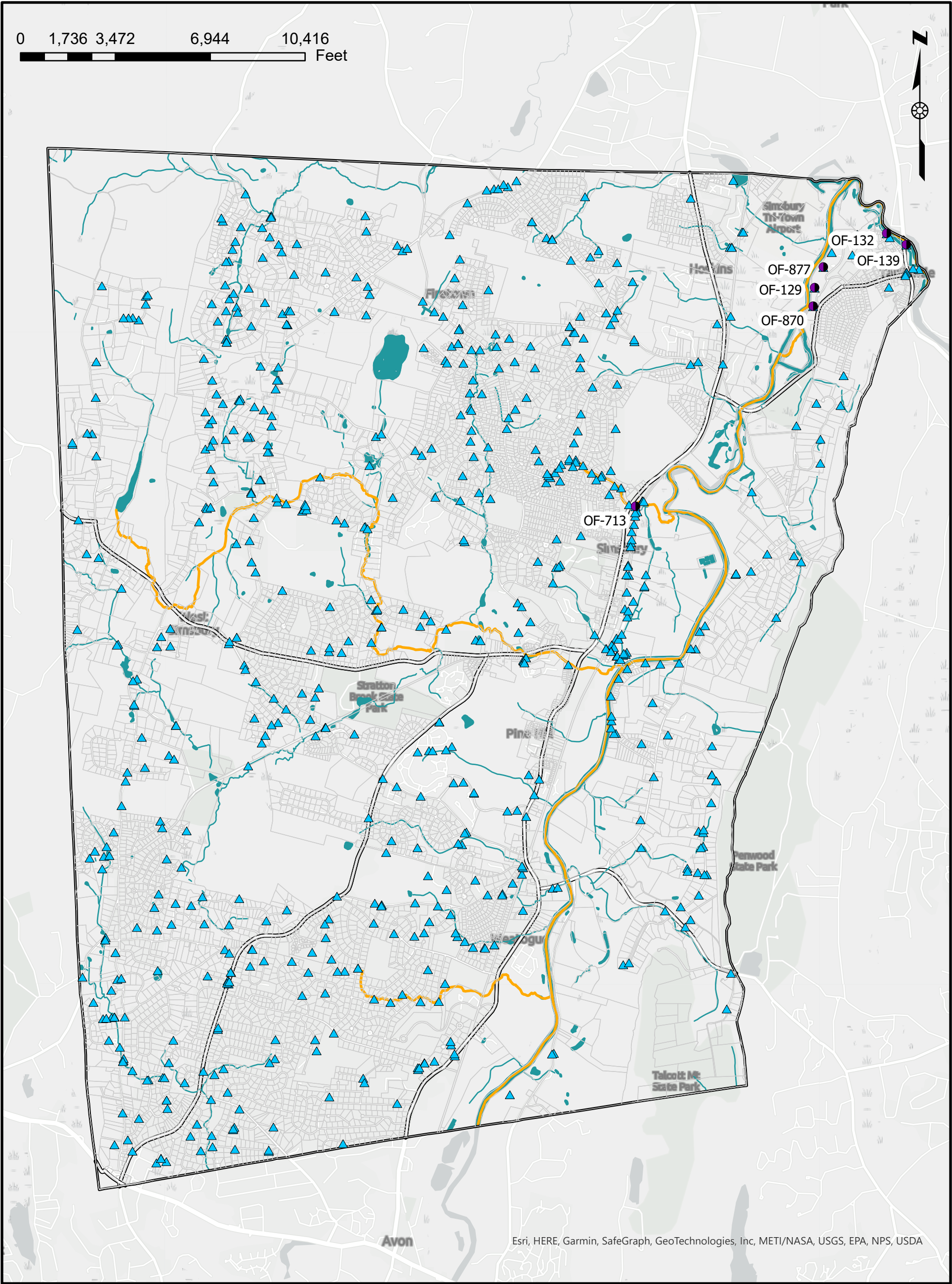
- ▲ Outfall to Impaired Waters
- ▲ Outfall
- ▣ Catch Basin
- ▭ Parcel

- ▭ Town Line
- Impaired Waterbody
- Surface Water
- State Road

Town of Simsbury

2022 Annual Report

Outfalls to Impaired Waters



Priority Outfall

Outfall

Parcel

Town Line

Impaired Waterbody

Surface Water

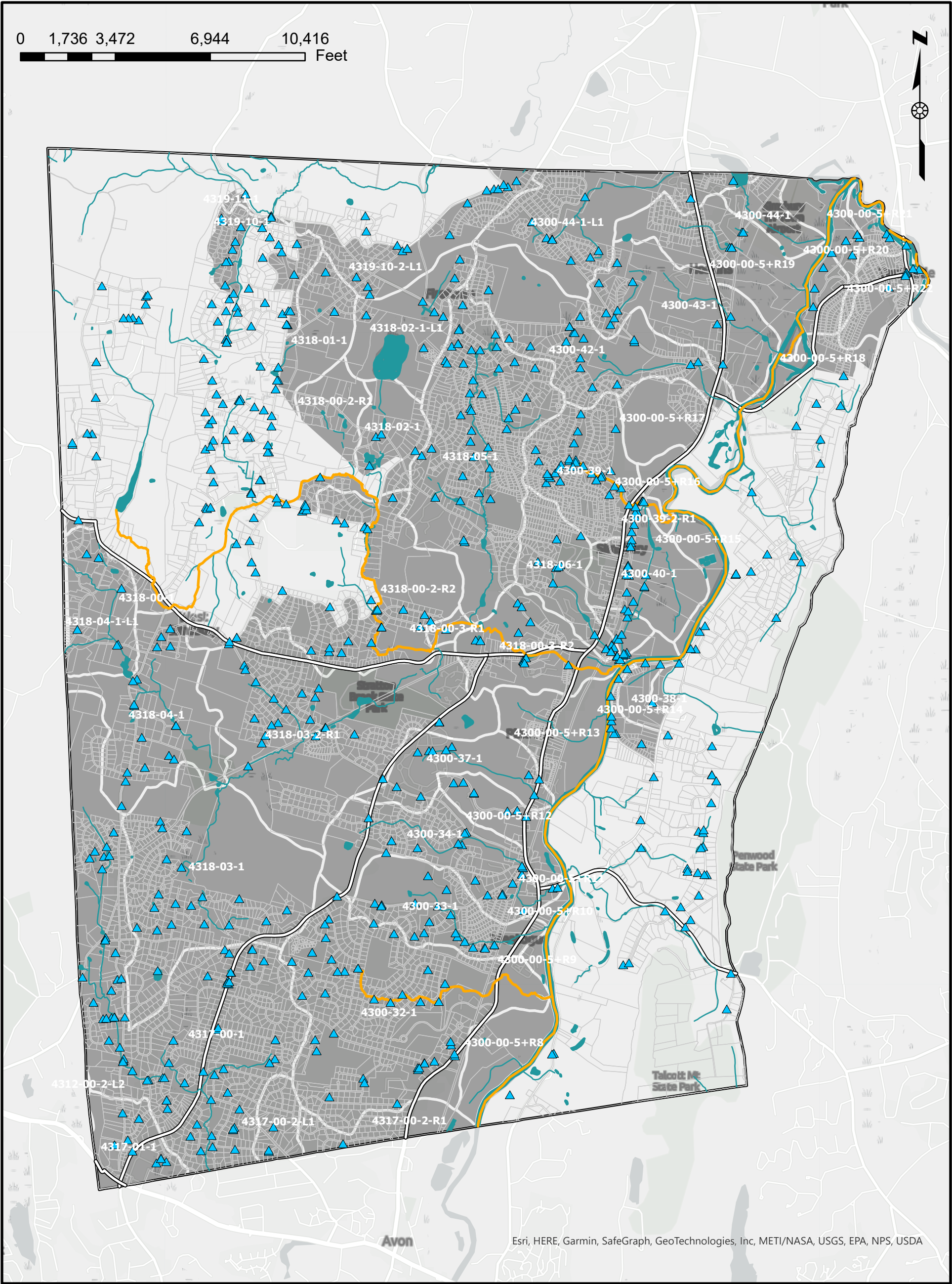
State Road

Legend

Town of Simsbury

2022 Annual Report

Priority Outfalls



Legend

- ▲ Outfall
- Impaired Waterbody
- Surface Water
- State Road
- Parcel
- ▭ Town Line
- Urbanized Area

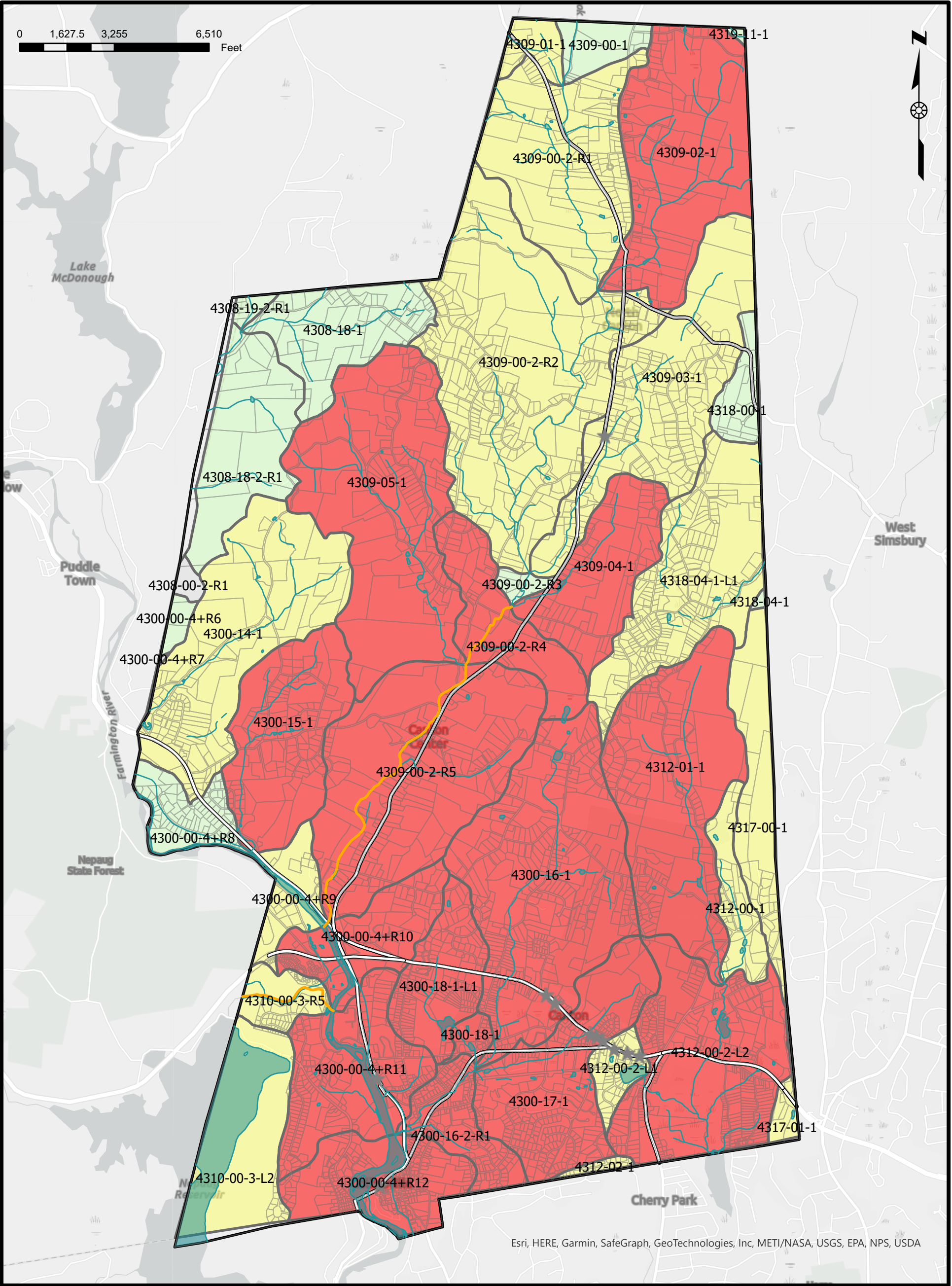
Town of Simsbury

2022 Annual Report

Urbanized Area By Catchment



290 Roberts Street, Suite 301
East Hartford, CT 006108



Legend

Impaired Waterbody

State_Rds

Surface Water

Parcel

Town Boundary

Priority Ranking

High

Problem

Low

Exempt

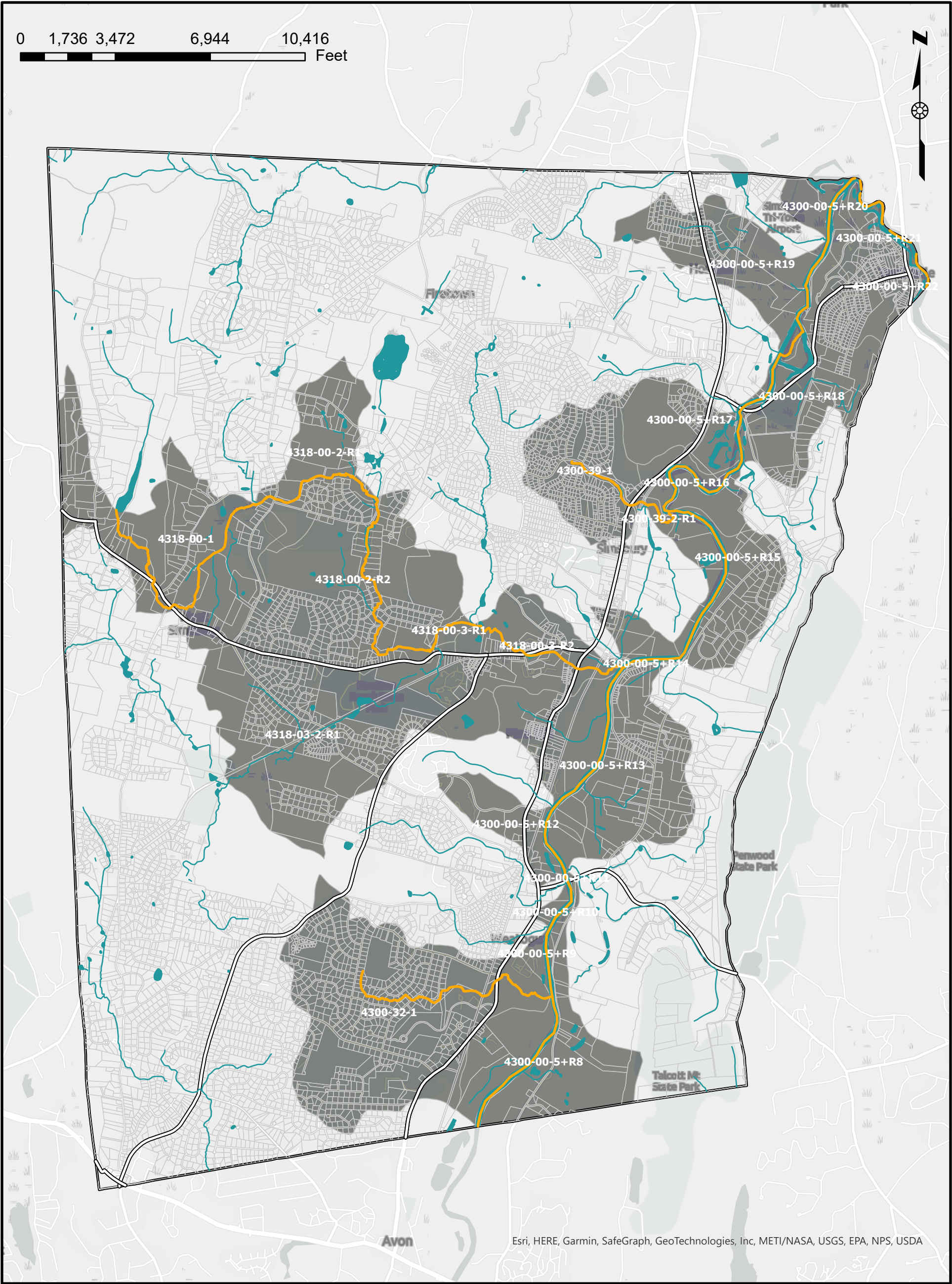
Town of Canton

2022 Annual Report

Catchment Priority Ranking

ATLAS

290 Roberts Street, Suite 301
East Hartford, CT 006108



Legend

Impaired Waterbody

Surface Water

State Road

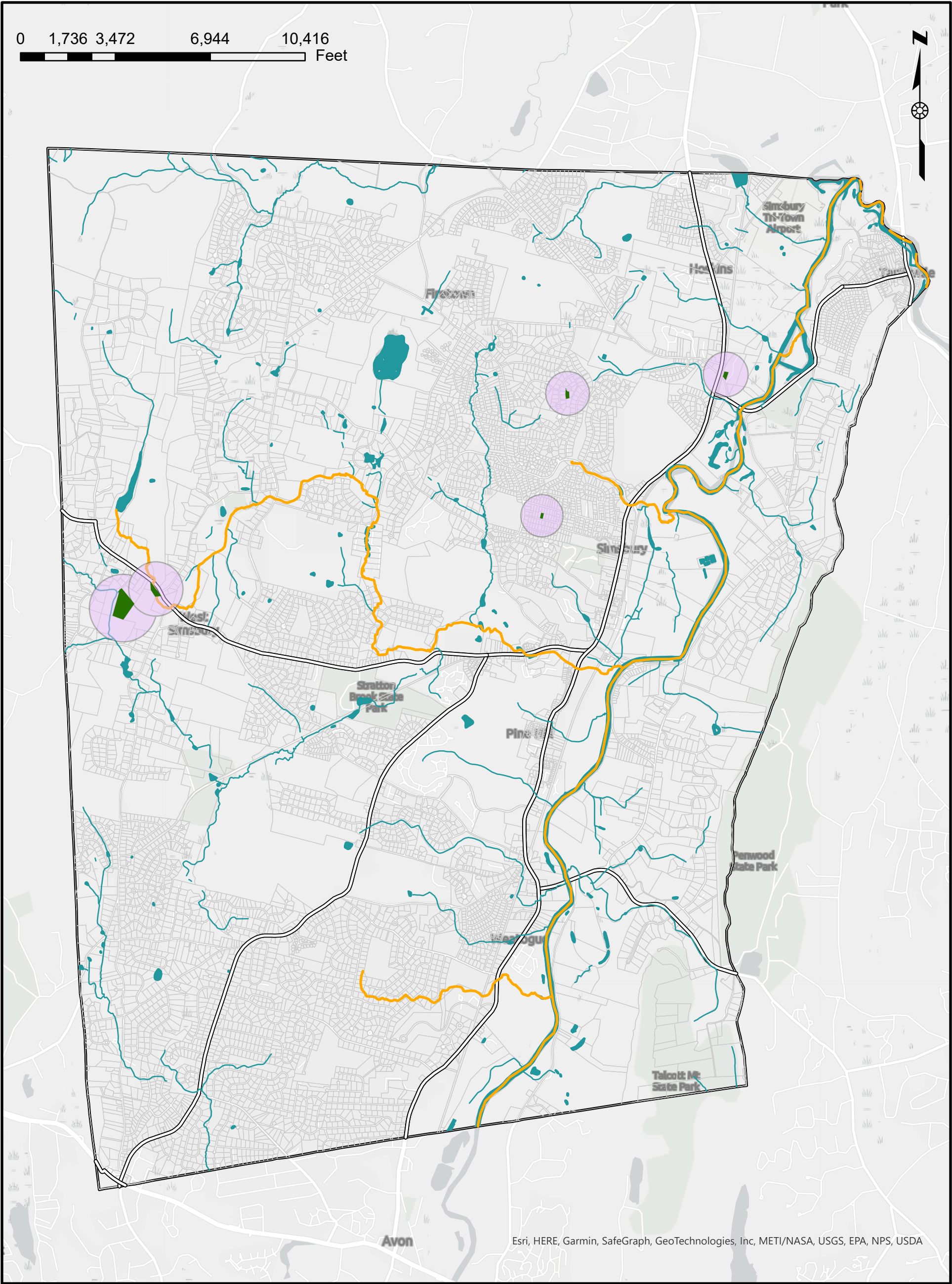
Parcel

Town Line

Town of Simsbury

2022 Annual Report

Impaired Waters by Catchment



Legend

2022 Septic Failure

Impaired Waterbody

Surface Water

State Road

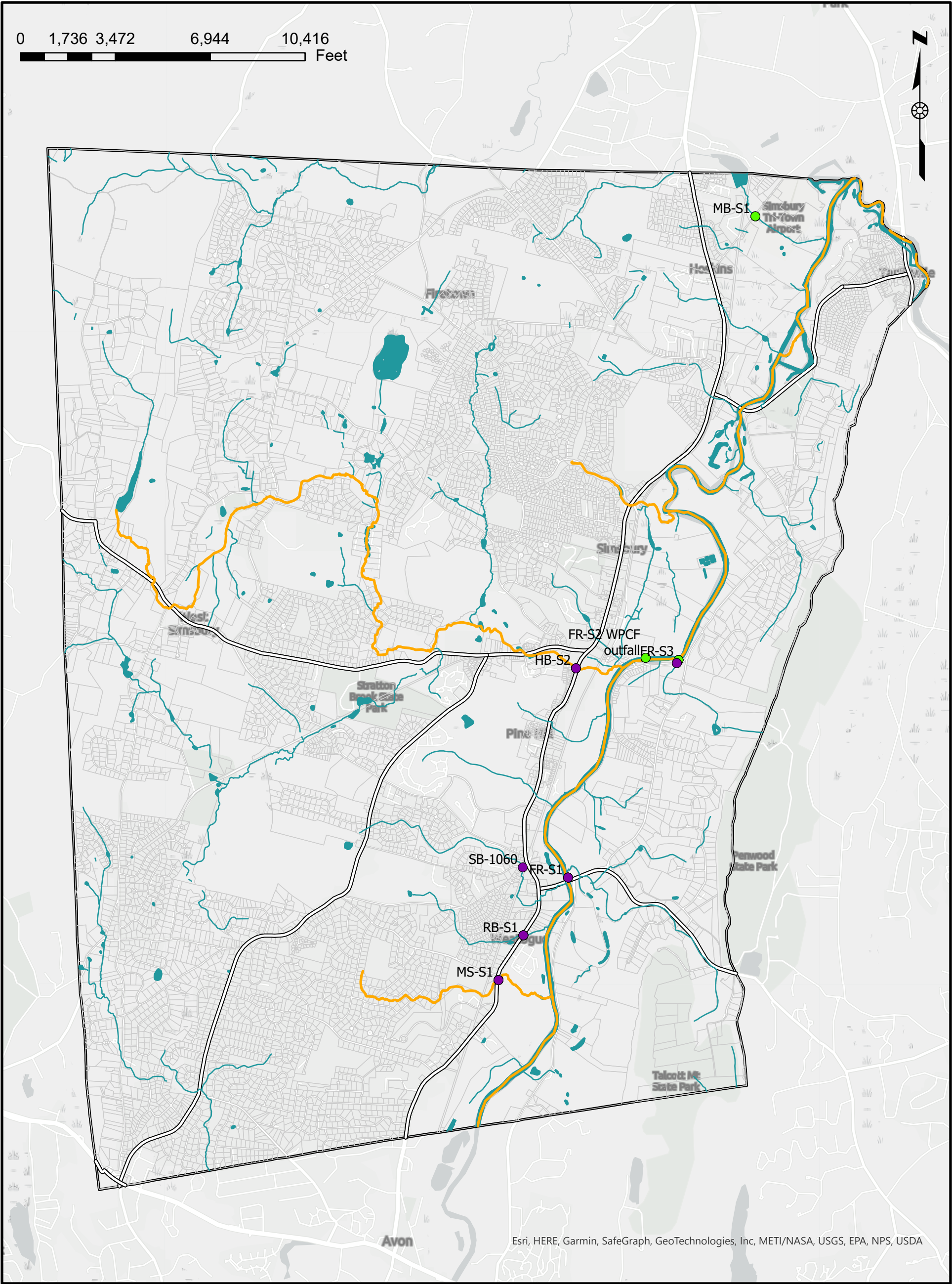
Parcel

Town Line

Town of Simsbury

2022 Annual Report

2022 Septic Failures



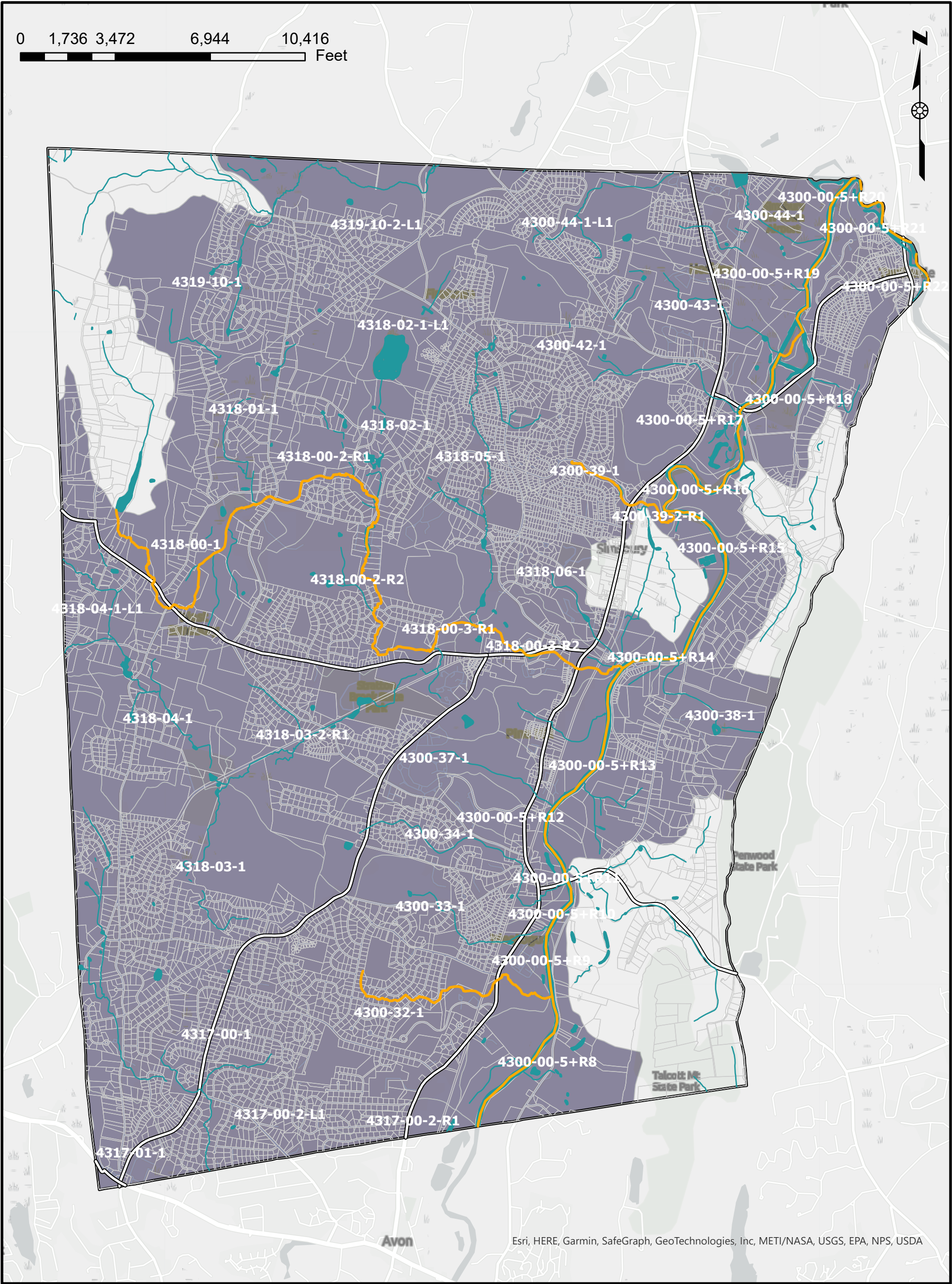
Legend

- Chloride Sampline Location
- Bacteria Sampling Location
- Impaired Waterbody
- Surface Water
- State Road
- Parcel
- Town Line

Town of Simsbury
2022 Annual Report
FRWA Sampling



290 Roberts Street, Suite 301
East Hartford, CT 006108



Legend

Impaired Waterbody

Surface Water

State Road

Parcel

Town Line

Town of Simsbury

2022 Annual Report

Prioritized Retrofitting by Catchment

ATTACHMENT I

Town of Simsbury
2022 Wet Weather Inspections

Outfall ID	Inspection Date	Condition	Discharge Description	General Parameters							Bacterial	
				Temperature (°C)	pH (SU)	Dissolved Oxygen (mg/L)	SPC (uS/cm)	ORP (mV)	Turbidity (NTU)	Odor	Escheriachia Coli	Total Coliforms
											MPN/100mL	
OF-713	9/22/2022	Excellent	Silty, light yellow color.	17.5	6.21	6.12	63.5	192.9	27.78	None	11,200	>24,200
OF-139	9/22/2022	Excellent	Slight foam, clear, light yellow color.	17.8	6.79	5.34	360.1	175	8.44	None	6,870	>24,200
OF-870	9/22/2022	Good	Clear, no color.	17	6.36	6.79	6.87	184.1	18.17	None	3,650	>24,200
OF-132	9/22/2022	Good	Clear, no color.	18.6	7.12	4.97	42.7	140.8	5.99	None	2,490	>24,200
OF-129	9/22/2022	Poor- halfway filled with sediment.	Silty, no color.	18.4	6.42	5.82	18.2	157.1	14.34	None	17,300	>24,200
OF-877	9/22/2022	Poor- discharge pipe broken, little to none erosion control.	Slight foam, clear, no color.	17.6	6.35	5.67	25.5	178.1	12.11	None	1,380	>24,200

Notes:

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

* 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.

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Wet Weather Sampling</i>	Date: <i>2022</i>
--	---	-----------------------------

Outfall ID	
OF-129	A photograph showing a dark, circular stormwater outfall pipe opening in a wooded area. The pipe is surrounded by dirt and some green foliage. A photograph showing a stormwater outfall pipe opening in a wooded area. A large tree trunk is visible in the foreground, and the pipe is partially obscured by the surrounding vegetation. A photograph showing a stormwater outfall pipe opening in a wooded area. A large tree trunk is visible in the foreground, and the pipe is partially obscured by the surrounding vegetation.

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Wet Weather Sampling</i>	Date: <i>2022</i>
--	---	-----------------------------

Outfall ID	
OF-132	  

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Wet Weather Sampling</i>	Date: <i>2022</i>
--	---	-----------------------------

Outfall ID	
OF-139	 Three photographs documenting the wet weather sampling at outfall OF-139. The top photo shows a concrete structure with two circular pipe openings, with water flowing from the left opening into a pool of water. The middle photo is a close-up of the same two openings, showing the turbulent flow of water from the left pipe. The bottom photo shows a person wearing blue nitrile gloves holding a clear plastic bag over the left pipe opening, likely to collect a sample of the effluent.

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Wet Weather Sampling</i>	Date: <i>2022</i>
--	---	-----------------------------

Outfall ID	
OF-713	 The photographs show the outfall OF-713 in four different views. The top photo shows a close-up of the outfall pipe surrounded by green vegetation. The second photo shows the outfall pipe discharging water into a stream. The third photo shows the stream with a large amount of white foam or bubbles. The bottom photo shows a clear plastic bag containing a sample of water or sediment, placed near the outfall pipe.

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Wet Weather Sampling</i>	Date: <i>2022</i>
--	---	-----------------------------

Outfall ID	
OF-870	   

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Wet Weather Sampling</i>	Date: <i>2022</i>
--	---	-----------------------------

Outfall ID	
OF-877	   



Tuesday, September 27, 2022

Attn: Luke Whitehouse
ATC Associates
290 Roberts St., Suite 301
East Hartford, CT 06108

Project ID: TOWN OF SIMSBURY
SDG ID: GCM39449
Sample ID#s: CM39449 - CM39454

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

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

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

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

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



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

Sample Id Cross Reference

September 27, 2022

SDG I.D.: GCM39449

Project ID: TOWN OF SIMSBURY

Client Id	Lab Id	Matrix
OF-129	CM39449	STORM WATER
OF-132	CM39450	STORM WATER
OF-139	CM39451	STORM WATER
OF-713	CM39452	STORM WATER
OF-870	CM39453	STORM WATER
OF-877	CM39454	STORM WATER



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

Analysis Report

September 27, 2022

FOR: Attn: Luke Whitehouse
ATC Associates
290 Roberts St., Suite 301
East Hartford, CT 06108

Sample Information

Matrix: STORM WATER
Location Code: ATC-EHDAS
Rush Request: Standard
P.O.#:

Custody Information

Collected by: AB
Received by: LB
Analyzed by: see "By" below

Date

09/22/22
09/22/22

Time

15:55
17:10

Laboratory Data

SDG ID: GCM39449
Phoenix ID: CM39449

Project ID: TOWN OF SIMSBURY
Client ID: OF-129

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	17300	10	MPN/100 mls	10	09/22/22 19:35	M/LJ	SM9223B-16
Total Coliforms	>24200	10	MPN/100 mls	10	09/22/22 19:35	M/LJ	SW9223B-16

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

Comments:

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

Phyllis Shiller, Laboratory Director

September 27, 2022

Reviewed and Released by: Ethan Lee, Project Manager



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

Analysis Report

September 27, 2022

FOR: Attn: Luke Whitehouse
ATC Associates
290 Roberts St., Suite 301
East Hartford, CT 06108

Sample Information

Matrix: STORM WATER
Location Code: ATC-EHDAS
Rush Request: Standard
P.O.#:

Custody Information

Collected by: AB
Received by: LB
Analyzed by: see "By" below

Date

09/22/22
09/22/22

Time

15:30
17:10

Laboratory Data

SDG ID: GCM39449
Phoenix ID: CM39450

Project ID: TOWN OF SIMSBURY
Client ID: OF-132

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	2490	10	MPN/100 mls	10	09/22/22 19:35	M/LJ	SM9223B-16
Total Coliforms	>24200	10	MPN/100 mls	10	09/22/22 19:35	M/LJ	SW9223B-16

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

Comments:

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Phyllis Shiller, Laboratory Director

September 27, 2022

Reviewed and Released by: Ethan Lee, Project Manager



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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 27, 2022

FOR: Attn: Luke Whitehouse
ATC Associates
290 Roberts St., Suite 301
East Hartford, CT 06108

Sample Information

Matrix: STORM WATER
Location Code: ATC-EHDAS
Rush Request: Standard
P.O.#:

Custody Information

Collected by: AB
Received by: LB
Analyzed by: see "By" below

Date

09/22/22
09/22/22

Time

15:15
17:10

Laboratory Data

SDG ID: GCM39449
Phoenix ID: CM39451

Project ID: TOWN OF SIMSBURY
Client ID: OF-139

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	6870	10	MPN/100 mls	10	09/22/22 19:35	M/LJ	SM9223B-16
Total Coliforms	>24200	10	MPN/100 mls	10	09/22/22 19:35	M/LJ	SW9223B-16

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

Comments:

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Phyllis Shiller, Laboratory Director

September 27, 2022

Reviewed and Released by: Ethan Lee, Project Manager



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Analysis Report

September 27, 2022

FOR: Attn: Luke Whitehouse
ATC Associates
290 Roberts St., Suite 301
East Hartford, CT 06108

Sample Information

Matrix: STORM WATER
Location Code: ATC-EHDAS
Rush Request: Standard
P.O.#:

Custody Information

Collected by: AB
Received by: LB
Analyzed by: see "By" below

Date

09/22/22
09/22/22

Time

13:45
17:10

Laboratory Data

SDG ID: GCM39449
Phoenix ID: CM39452

Project ID: TOWN OF SIMSBURY
Client ID: OF-713

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	11200	10	MPN/100 mls	10	09/22/22 19:35	M/LJ	SM9223B-16
Total Coliforms	>24200	10	MPN/100 mls	10	09/22/22 19:35	M/LJ	SW9223B-16

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

Comments:

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Phyllis Shiller, Laboratory Director

September 27, 2022

Reviewed and Released by: Ethan Lee, Project Manager



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

Analysis Report

September 27, 2022

FOR: Attn: Luke Whitehouse
ATC Associates
290 Roberts St., Suite 301
East Hartford, CT 06108

Sample Information

Matrix: STORM WATER
Location Code: ATC-EHDAS
Rush Request: Standard
P.O.#:

Custody Information

Collected by: AB
Received by: LB
Analyzed by: see "By" below

Date

09/22/22
09/22/22

Time

14:10
17:10

Laboratory Data

SDG ID: GCM39449
Phoenix ID: CM39453

Project ID: TOWN OF SIMSBURY
Client ID: OF-870

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	3650	10	MPN/100 mls	10	09/22/22 19:35	M/LJ	SM9223B-16
Total Coliforms	>24200	10	MPN/100 mls	10	09/22/22 19:35	M/LJ	SW9223B-16

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

Comments:

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Phyllis Shiller, Laboratory Director

September 27, 2022

Reviewed and Released by: Ethan Lee, Project Manager



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

Analysis Report

September 27, 2022

FOR: Attn: Luke Whitehouse
ATC Associates
290 Roberts St., Suite 301
East Hartford, CT 06108

Sample Information

Matrix: STORM WATER
Location Code: ATC-EHDAS
Rush Request: Standard
P.O.#:

Custody Information

Collected by: AB
Received by: LB
Analyzed by: see "By" below

Date

09/22/22
09/22/22

Time

14:40
17:10

Laboratory Data

SDG ID: GCM39449
Phoenix ID: CM39454

Project ID: TOWN OF SIMSBURY
Client ID: OF-877

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	1380	10	MPN/100 mls	10	09/22/22 19:35	M/LJ	SM9223B-16
Total Coliforms	>24200	10	MPN/100 mls	10	09/22/22 19:35	M/LJ	SW9223B-16

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

Comments:

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Phyllis Shiller, Laboratory Director

September 27, 2022

Reviewed and Released by: Ethan Lee, Project Manager

Sample Criteria Exceedances Report
GCM39449 - ATC-EHDAS

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

*** No Data to Display ***

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



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc.

Client: ATC Associates

Project Location: TOWN OF SIMSBURY

Project Number:

Laboratory Sample ID(s): CM39449-CM39454

Sampling Date(s): 9/22/2022

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

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

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

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Ethan Lee **Position:** Project Manager

Printed Name: Ethan Lee **Date:** Tuesday, September 27, 2022

Name of Laboratory Phoenix Environmental Labs, Inc.

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



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



RCP Certification Report

September 27, 2022

SDG I.D.: GCM39449

SDG Comments

Temperature above 6C:

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

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

Temperature Narration

The samples were received at 10.6C with cooling initiated.

(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

ATTACHMENT II

Town of Simsbury
2022 Dry Weather Inspections

Outfall ID	Inspection Date	Material	Subtype	Diameter (Inches)	Condition	Erosion Control	Notes	Maintenance Or Erosion Control Needed?	Illicit Discharge?	Illicit Discharge Flow Type	Illicit Discharge Description	Longitude	Latitude
OF-120	6/30/2022	Concrete	flared end	20	Fair	Yes	Concrete flared end, dry, 1/2 full of debris and sediment. Receiving stormwater from catch basins along road.	Maintenance-Sediment and debris removal.	No	--	--	-72.78532725	41.8379892
OF-97	6/30/2022	Concrete	flared end	24	Fair	Yes	Two outlets observed: a 24-inch concrete, 3/4 submerged from catch basin on princess lane. and adjacent to a 4-5 foot diameter corrugated steel pipe. 1/2 full, possible culverted stream. No observed staining, odor, sheen, or foam.	No	No	--	--	-72.79146948	41.84263658
OF-98	6/30/2022	Concrete	flared end	24	Fair	No	24-inch flared end drain. Small section separated from pipe. Discharges to field.	Maintenance-pipe broken	No	--	--	-72.79075757	41.84337241
OF-96	6/30/2022	Concrete	flared end	30	Good	Yes	Clear, standing water approximately 6-inches deep. No observed staining odors, sheen or foam.	No	No	--	--	-72.79207541	41.84466536
OF-95	6/30/2022	Concrete	flared end	24	Good	Yes	Concrete flared end on on receiving side of wooded drainage swale.	No	No	--	--	-72.78964332	41.84583008
OF-93	6/30/2022	Concrete	flared end	30	Good	Yes	Receiving end of culverted stream with steady flow ~ 5-10 GPM from the stream. No visual staining, odor, sheen, or foam.	No	No	--	--	-72.78857295	41.8478943
OF-94	6/30/2022	Concrete	flared end	30	Good	Yes	Culvert receives stormwater from catch basins located on adjacent road. No observed environmental indicators.	No	No	--	--	-72.78889413	41.84789993
OF-90	6/30/2022	Concrete	flared end	30	Fair	No	Fallen trees and debris at pipe end. No observed environmental indicators	No	No	--	--	-72.78964009	41.84805907
OF-88	6/30/2022	Concrete	flared end	30	Fair	No	Two (2) discharge pipes: a 30-inch concrete and a 14-inch flared end. No environmental indicators.	No	No	--	--	-72.7911909	41.84853247
OF-89	6/30/2022	Concrete	flared end	18	Fair	No	Two (2) pipes: a 16-inch concrete and a 14-inch rcp culverts receiving stream water. No observed environmental indicators.	No	No	--	--	-72.79116205	41.84822988
OF-92	6/30/2022	Concrete	flared end	24	Fair	No	Pipe end fully submerged. No observed environmental indicators.	No	No	--	--	-72.78936135	41.85059438
OF-91	6/30/2022	Concrete	flared end	24	Good	Yes	Receiving end of intermittent stream. No environmental indicators observed	No	No	--	--	-72.78905283	41.85072588
OF-100	6/30/2022	Concrete	flared end	16	Good	Yes	16- inch concrete. Riprap swale parallel to road. No environmental indicators.	No	No	--	--	-72.78906175	41.85211086
OF-101	6/30/2022	Precast	flared end	15	Good	Yes	Receiving end of culvert for intermittent flow. No environmental indicators.	No	No	--	--	-72.7889946	41.85240525
OF-97	6/30/2022	Concrete	other	18	Poor	No	Catch basin with headwall of concrete block. No environmental indicators.	No	No	--	--	-72.78968985	41.85225398
OF-84	6/30/2022	Concrete	flared end	24	Good	Yes	Recieves water from swale.	No	No	--	--	-72.79418267	41.84424772

Town of Simsbury
2022 Dry Weather Inspections

Outfall ID	Inspection Date	Material	Subtype	Diameter (Inches)	Condition	Erosion Control	Notes	Maintenance Or Erosion Control Needed?	Illicit Discharge?	Illicit Discharge Flow Type	Illicit Discharge Description	Longitude	Latitude
OF-87	6/30/2022	HDPE	flared end	12	Good	Yes	Discharges runoff from catchbasins located on the adjacent road. No environmental indicators.	No	No	--	--	-72.79902528	41.83903753
OF-145	6/30/2022	Concrete	flared end	15	Good	Yes	Discharges to rip rap and wetland area.	No	No	--	--	-72.79735538	41.86104293
OF-923	6/30/2022	Concrete	archflowdissipator	15	Poor	No	Concrete wall and pipe collect runoff from hill. Pipe 90% full of sediment leaves and debris	Maintenance-Sediment and debris removal.	No	--	--	-72.79380324	41.86191921
OF-252	6/30/2022	Precast	flared end	18	Good	Yes	No discharge or environmental indicators.	No	No	--	--	-72.78789043	41.85791968
OF-251	6/30/2022	Concrete	flared end	18	Good	Yes	Discharges to rip rap and wetland area. Discharge from catch basin along road.	No	No	--	--	-72.78791441	41.85793965
OF-258	6/30/2022	Precast	flared end	18	Fair	Yes	Overgrown with brush. No environmental indicators.	Maintenance-brush clearing.	No	--	--	-72.78730233	41.85731418
OF-81	6/30/2022	Precast	flared end	18	Fair	No	Concrete flared end covered with fallen tree and overgrown. No environmental indicators.	Maintenance-brush clearing.	No	--	--	-72.78797977	41.85511981
OF-111	6/30/2022	--	--	--	--	--	Not located-Suspected to be buried.	Further investigation.	No	--	--	-72.79008363	41.87055164
OF-622	6/30/2022	Corrugated steel	endwall	60	Good	No	Corrugated steel, culverted stream. No environmental indicators.	No	No	--	--	-72.78254955	41.88633615
OF-611	6/30/2022	Concrete	endwall	15	Good	No	Concrete block with mortar. No environmental indicators observed.	No	No	--	--	-72.80553205	41.88192593
OF-355	6/30/2022	Precast	flared end	24	Good	Yes	Concrete. No environmental indicators observed.	No	No	--	--	-72.81777826	41.88871789
OF-351	6/30/2022	Concrete	PVC	12	Poor	No	Concrete catch basin with 12-inch pvc pipe. Collects water from lawn area and drains to catch basin. Pipe partially filled with debris.	Maintenance-debris removal	No	--	--	-72.81548565	41.89267517
OF-377	6/30/2022	--	--	--	--	No	Not observed. Pipe area filled with woody debris and leaves. Suspected to be buried.	Further investigation.	No	--	--	-72.818847	41.89617003
OF-368	6/30/2022	Precast	endwall	48	Good	Yes	Concrete culverted stream. No environmental indicators.	No	No	--	--	-72.82041811	41.89469492
OF-370	6/30/2022	Precast	endwall	48	Good	Yes	Upstream end of culvert. Area overgrown. No observed environmental indicators.	Maintenance-brush clearing.	No	--	--	-72.82025839	41.89450314
OF-855	6/30/2022	Precast	other	15	Fair	No	Concrete pipe discharges to swale. No rip rap, overgrown with vines	Erosion Control, Maintenance-brush control.	No	--	--	-72.81656069	41.89875639
OF-195	6/30/2022	HDPE	flared end	15	Good	No	Receiving flow from catch basins along road to a drainage swale. No environmental indicators observed.	No	No	--	--	-72.8144324	41.89939134
OF-930	6/30/2022	Concrete	endwall	24	Good	Yes	24-inch culvert . Catch basins along road flow into culvert. No environmental indicators observed.	No	No	--	--	-72.80397831	41.89684294
OF-925	6/30/2022	Concrete	flared end	24	Good	No	Concrete pipe. Receives runoff from CBs on Owens Pl and Owens Brook Blvd.	No	No	--	--	-72.80012011	41.88672599
OF-960	6/30/2022	Concrete	endwall	24	Good	Yes	Concrete end wall with debris in end. No environmental indicators observed. Discharges to stream	Maintenance-debris removal	No	--	--	-72.80100255	41.88690876

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OF-161	6/30/2022	Precast	flared end	30	Good	Yes	Overgrown with vines.	Maintenance-vine removal	No	--	--	-72.80271544	41.88801033
OF-162	6/30/2022	Precast	flared end	24	Good	Yes	Concrete end wall with debris in end. No environmental indicators observed.	Maintenance-debris removal	No	--	--	-72.80281622	41.88781853
OF-898	6/30/2022	Precast	flared end	24	Good	Yes	Concrete outfall. No environmental indicators observed.	No	No	--	--	-72.80406913	41.88819317
OF-158	6/30/2022	Precast	flared end	24	Good	Yes	Concrete outfall. No environmental indicators observed.	No	No	--	--	-72.80522957	41.88895572
OF-159	6/30/2022	Precast	flared end	36	Fair	No	Concrete outfall half full of sediment. Fallen tree over pipe. No environmental indicators observed.	Maintenance-sediment and tree removal.	No	--	--	-72.80085709	41.89268846
OF-185	7/1/2022	Corrugated steel	other	12	Good	No	Corrugated steel. No riprap, no environmental indicators observed.	Erosion Control	No	--	--	-72.78644601	41.89916919
OF-181	7/1/2022	Concrete	flared end	18	Good	Yes	Culverted stream. No environmental indicators observed.	No	No	--	--	-72.78525124	41.91090852
OF-182	7/1/2022	Concrete	flared end	30	Good	Yes	Location adjacent to stream culvert. Pipe partially filled with sediment. No environmental indicators observed.	Maintenance-Sediment removal	No	--	--	-72.78525338	41.91087513
OF-180	7/1/2022	Concrete	flared end	18	Good	Yes	Upstream side of culvert. Stream. Steady, clear flow at stream. No environmental indicators observed.	No	No	--	--	-72.78552219	41.91089084
OF-184	7/1/2022	Concrete	flared end	12	Good	Yes	Discharges to wetland area. Little debris and sediment at end of pipe. No environmental indicators observed.	Maintenance-Sediment and debris removal.	No	--	--	-72.78370782	41.91241871
OF-183	7/1/2022	Concrete	flared end	12	Fair	Yes	Debris, sediment, and trash built up around pipe end.	Maintenance-sediment, debris, and refuse removal.	No	--	--	-72.78388181	41.91242738
OF-157	7/1/2022	HDPE	flared end	15	Good	Yes	Little leaves and sand at pipe end. Discharge to detention basin. No environmental indicators observed.	No	No	--	--	-72.78721459	41.90320174
OF-646	7/1/2022	Corrugated steel	flared end	18	Good	Yes	Corrugated steel pipe and flared end, dumped metal and furniture at outlet.	Maintenance-refuse removal.	No	--	--	-72.78976901	41.89940433
OF-899	7/1/2022	Concrete	flared end	60	Good	No	No environmental indicators observed.	No	No	--	--	-72.7907785	41.89913043
OF-759	7/1/2022	HDPE	flared end	18	Good	Yes	Dry. Collect runoff from trench along road and solar farm traveling to Outfall. Sediment inside pipe.	Maintenance-Sediment and debris removal.	Yes	Slow	Discharge along road, collected from trench. Observed to be coming from solar farm.	-72.79838013	41.90161796
OF-758	7/1/2022	HDPE	flared end	18	Good	Yes	Pipe end overgrown. Discharges to farm land. No environmental indicators observed	No	No	--	--	-72.79833218	41.90140416
OF-768	7/1/2022		other	18	Fair	Yes	Corrugated steel pipe with riprap surrounding. Bottom of pipe 1/4 full of sand. No environmental indicators observed.	Maintenance-sediment removal.	No	--	--	-72.80105996	41.90380674
OF-891	7/1/2022	Concrete	flared end	24	Good	Yes	Discharges to wetland area. No environmental indicators observed.	No	No	--	--	-72.80061698	41.90457013
OF-892	7/1/2022	Concrete	flared end	18	Good	Yes	Little riprap at end pool filled with sediment. No environmental indicators observed.	Maintenance-sediment removal	No	--	--	-72.79858371	41.90744208
OF-208	7/1/2022	Concrete	flared end	18	Fair	Yes	Erosion at end of piping. No environmental indicators observed.	Erosion Control	No	--	--	-72.80315922	41.91055774

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OF-763	7/1/2022		endwall	30	Fair	No	Culverted Stream. No environmental indicators observed from MS4 System. Note: irrigation piping fed through culvert.	Investigation into irrigation piping.	No	--	--	-72.80940296	41.91166622
OF-762	7/1/2022	Concrete	flared end	24	Good	No	Adjacent to culverted stream. No environmental indicators observed.	No	No	--	--	-72.80941627	41.91172917
OF-217	7/1/2022	Concrete	other	42	Good	Yes	No environmental indicators observed. Discharges to wetland and stream.	No	No	--	--	-72.80498938	41.91595771
OF-918	7/1/2022	Concrete	flared end	24	Good	No	Four (4) 24-inch concrete pipes. No environmental indicators observed. Three (3) of the pipes culvert under the road and the 4th (right end) collect runoff from catch basin in road	No	No	--	--	-72.81015771	41.91184235
OF-920	7/1/2022	Concrete	flared end	30	Fair	No	Outfall 1/4 full of sediment. No environmental indicators observed.	Maintenance-sediment removal	No	--	--	-72.8121212	41.91345644
OF-919	7/1/2022	Concrete	flared end	24	Good	No	Outfall 1/4 full of sediment. No environmental indicators observed. Adjacent to Outfall-920	Maintenance-sediment removal	No	--	--	-72.81213261	41.91344477
OF-766	7/1/2022	Corrugated steel	endwall	14	Good	No	Corrugated steel pipe. Partial full of leaves and debris. No environmental indicators observed.	Maintenance-debris and leaf removal.	No	--	--	-72.80688862	41.9095768
OF-202	7/1/2022	Concrete	flared end	12	Fair	No	Pipe end overgrown with Japanese knot weed. No environmental indicators observed.	Maintenance-japanese knotweed clearing	No	--	--	-72.80156091	41.90312033
OF-653	7/1/2022	Concrete	endwall	30	Good	No	Adjacent to of-654. No environmental indicators observed	No	No	--	--	-72.80702873	41.90292411
OF-654	7/1/2022	Concrete	flared end	30	Good	No	Adjacent to OF-653. No environmental indicators observed.	No	No	--	--	-72.80705915	41.90293402

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Outfall ID	
OF-120	A close-up photograph of a dark, circular outfall pipe opening. The pipe is surrounded by dense green foliage and fallen leaves, which are piled up around the entrance. The scene is outdoors, and the lighting suggests a sunny day. A photograph of a steep, rocky embankment. The embankment is covered in dense green vegetation and fallen leaves. The rocks are dark and jagged, and the vegetation is thick and green. The scene is outdoors, and the lighting suggests a sunny day.

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Outfall ID	
OF-97	A photograph showing a stream with dark, still water reflecting the surrounding green trees and foliage. On the right bank, there is a small, dark, rectangular structure, possibly a culvert or outfall, partially obscured by rocks and vegetation. A photograph showing a stream with dark, still water reflecting the surrounding green trees and foliage. On the right bank, there is a small, dark, rectangular structure, possibly a culvert or outfall, partially obscured by rocks and vegetation.

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Outfall ID	
OF-98	

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Outfall ID	
OF-96	

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Outfall ID	
OF-95	A close-up photograph of a concrete outfall pipe opening. The pipe is arched and set into a concrete base. The surrounding area is covered with dry leaves and small green plants. The pipe opening is dark, suggesting it leads underground. A wider photograph of the outfall area. It shows a rocky stream bed with several large, dark rocks. The surrounding area is covered with dry leaves and small green plants. The background shows a dense forest with trees and foliage.

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Outfall ID	
OF-93	

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Outfall ID	
OF-94	

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Outfall ID	
OF-90	A photograph showing a dark, circular pipe opening in a wooded area. The pipe is surrounded by fallen branches and green foliage. The ground around the pipe is covered in leaves and twigs. A photograph showing a large, weathered log lying horizontally in a wooded area. The log is surrounded by green foliage and other branches. The background is filled with dense trees and leaves.

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Outfall ID	
OF-88	

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Outfall ID	
OF-89	

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Outfall ID	
OF-92	

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Outfall ID	
OF-91	A photograph showing a rocky outfall area with dense green vegetation. The rocks are dark and wet, and the surrounding area is covered in lush green plants and grass. A photograph showing a dark, narrow opening, likely an outfall, with a tree trunk and branches visible on the right side. The ground in the foreground is covered in dry leaves and twigs.

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Outfall ID	
OF-100	

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Outfall ID	
OF-101	

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Outfall ID	
OF-97	A dark, muddy, and somewhat obscured view of an outfall pipe opening. The surrounding area is dark and appears to be a trench or a deep, narrow channel filled with mud and debris. A concrete outfall structure, possibly a manhole or a large pipe opening, surrounded by dense green vegetation and weeds. The structure is made of concrete and has a rectangular opening. The surrounding area is overgrown with various plants and grasses.

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Outfall ID	
OF-84	A close-up photograph of a concrete outfall pipe opening. The pipe is surrounded by dense vegetation, including green leaves and some pinkish flowers. The interior of the pipe is dark and appears to be filled with debris or water. A photograph of a concrete outfall pipe opening in a grassy area. The pipe is surrounded by tall green grass. In the background, there is a tree and a paved area with a car parked. The shadow of the person taking the photo is visible in the foreground.

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Outfall ID	
OF-87	A close-up photograph of a large, dark, circular pipe opening in a wooded area. The pipe is surrounded by green foliage and brown leaves. The ground around the pipe appears to be a mix of dirt and organic matter. A photograph showing a stream or ditch flowing through a wooded area. The water is dark and surrounded by dense green trees and bushes. The ground in the foreground is covered with dry leaves and twigs.

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Outfall ID	
OF-145	A photograph showing a concrete outfall pipe opening. The pipe is partially obscured by dense green vegetation, including tall grasses and leafy plants. A person's hand, wearing an orange safety vest, is visible in the lower left corner, pointing towards the pipe. A photograph showing a concrete outfall pipe opening. The pipe is surrounded by dense green vegetation. Water is visible flowing out of the pipe, creating a small pool of water in front of the opening.

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Outfall ID	
OF-923	

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Outfall ID	
OF-252	

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Outfall ID	
OF-251	

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Outfall ID	
OF-258	 

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Outfall ID	
OF-81	A close-up photograph of a concrete outfall pipe opening. The pipe is partially obscured by dense green foliage and branches. The interior of the pipe is dark, and there is some reddish-brown material visible at the entrance. A photograph showing a concrete outfall pipe opening that is almost completely hidden by thick green vegetation and tree branches. The surrounding area is a dense forest.

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Outfall ID	
OF-622	

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Outfall ID	
OF-611	

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Outfall ID	
OF-355	 

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Outfall ID	
OF-351	

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Outfall ID	
OF-377	A photograph showing a dense pile of fallen branches, twigs, and leaves in a wooded area. The ground is covered with brown, dry leaves, and several green plants are growing through the debris. The background shows more trees and foliage. A photograph showing a dense pile of fallen branches, twigs, and leaves in a wooded area. The ground is covered with brown, dry leaves, and several green plants are growing through the debris. The background shows more trees and foliage.

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Outfall ID	
OF-368	A photograph showing a concrete outfall pipe discharging into a stream. The pipe is partially submerged, and the water is flowing out. The surrounding area is rocky and covered with green vegetation. A photograph showing a stream flowing through a wooded area. The water is clear and the surrounding vegetation is lush and green. The stream is bordered by rocks and trees.

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Outfall ID	
OF-855	A photograph showing a dark, circular pipe opening at the ground surface. The opening is heavily obscured by a dense network of thin, light-colored branches and some green leaves. The surrounding ground is dark and appears to be soil or mulch. A photograph showing a dark, circular pipe opening at the ground surface. A long, thin, light-colored stick or branch is positioned vertically next to the opening. The surrounding area is covered with dry leaves and some green vegetation.

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Outfall ID	
OF-195	 

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Outfall ID	
OF-930	A close-up photograph looking down into a large, dark concrete pipe. The pipe has a circular opening at the bottom, and water is flowing out of it, creating a small waterfall effect over a rocky area. A photograph showing the exterior of a concrete pipe outlet. The pipe is embedded in a concrete structure, and the surrounding area is covered with rocks and dense green vegetation.

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls-Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-925	

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls-Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-960	A photograph showing a small stream or ditch flowing through a wooded area. A large, flat rock is visible in the water, and the surrounding vegetation is dense and green. A photograph showing a large, circular pipe or culvert opening, partially obscured by dense green vegetation and a fallen log. The pipe appears to be made of concrete or metal.

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls-Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-161	 

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls-Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-162	

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-898	 

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-158	 

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-159	

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-185	

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-181	 

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-182	

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-180	

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-184	

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-183	A close-up photograph of a concrete outfall structure, possibly a manhole or storm drain, which is partially obscured by dense green vegetation and weeds. The structure appears to be made of several large concrete blocks. A photograph showing a metal grate covering a concrete outfall structure, surrounded by dense green vegetation. The grate is made of metal bars and is set into a concrete base.

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-186	

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-157	

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-646	A photograph showing a metal outfall pipe that has been cut or broken, lying on the ground in a wooded area. The pipe is surrounded by green foliage and brown leaves. The pipe is dark and appears to be made of metal. A close-up photograph of a metal outfall pipe. The pipe is dark and appears to be made of metal. It is surrounded by green foliage and brown leaves. The pipe is cut or broken, and the end of the pipe is visible.

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-899	A photograph showing the interior of a large, circular concrete pipe. The pipe is dark and appears to be empty, with a bright light source visible at the far end. The pipe is surrounded by dirt and some debris. A photograph showing the exterior of a concrete pipe outlet. The pipe is embedded in a concrete structure that is partially buried in the ground. The surrounding area is wooded with trees and green foliage.

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-759	

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-758	A close-up photograph showing dense green foliage, including large leaves and some yellow flowers, partially obscuring a dark, circular opening in the ground. A wide-angle photograph of a grassy field with patches of green and brown vegetation. In the background, there is a paved road, utility poles with power lines, and a line of trees under a blue sky with scattered clouds.

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-768	 

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-891	

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-892	

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-208	A photograph showing a concrete outfall structure, possibly a manhole or catch basin, partially buried under a thick layer of dry leaves, twigs, and other debris. The structure is surrounded by dense green ferns and other vegetation. A second photograph of the same concrete outfall structure, showing it is heavily overgrown with vegetation, including large green ferns and various shrubs. The structure is partially obscured by the dense foliage.

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-763	

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-762	

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-217	 

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-918	

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-920	

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-766	

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-202	

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-653	 

PHOTOGRAPHIC LOG

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



Client Name: <i>Town of Simsbury</i>	Site Location: <i>Town of Simsbury MS4 Outfalls- Dry Weather Inspections</i>	Date: <i>2022</i>
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Outfall ID	
OF-654	A close-up photograph showing a dark, shaded area, possibly a trench or a small stream bed. The ground is covered with green ferns and some white plastic sheeting. The lighting is dim, suggesting a deep or shaded location. A photograph of a grassy area with green ferns. In the background, there is a concrete curb and a paved road. The scene is brightly lit, suggesting an outdoor setting during the day.

ATTACHMENT III

Town of Simsbury MS4
Dry Weather Sampling
2022 Dry Weather Analytical Results

Outfall ID	Inspection Date	Condition	Discharge Description	Screening Indicators						
				Chlorine Residual	Ammonia as Nitrogen	MBAS	Conductivity	Salinity	Escherichia Coli	Total Coliforms
				mg/L			umhos/cm	ppt	MPN/100mL	
OF-759	7/1/22	Good	Discharge along road, collected from trench. Observed to be coming from solar farm.	<0.02	0.06	0.08	279	16.9	--	--

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 10. Turbidity: >5 NTU





Wednesday, July 13, 2022

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

Project ID: SIMSBURY MS4
SDG ID: GCL69958
Sample ID#s: CL69958

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

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

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

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

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



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



SDG Comments

July 13, 2022

SDG I.D.: GCL69958

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.
Sample CL69958 was received past hold time for MBAS (SM5540 C).



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

Sample Id Cross Reference

July 13, 2022

SDG I.D.: GCL69958

Project ID: SIMSBURY MS4

Client Id	Lab Id	Matrix
IDDE-1	CL69958	WASTE WATER



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

Analysis Report

July 13, 2022

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

Sample Information

Matrix: WASTE WATER
Location Code: ATC-EHDAS
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date

07/01/22
07/06/22

Time

14:00
10:03

Laboratory Data

SDG ID: GCL69958
Phoenix ID: CL69958

Project ID: SIMSBURY MS4
Client ID: IDDE-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chlorine Residual	< 0.02	0.02	mg/L	1	07/06/22 16:20	AKS	SM4500CI-G-00
Conductivity	279	5.00	umhos/cm	1	07/07/22	MW/EG	SM2510B-11
MBAS	0.08	0.05	mg/L	1	07/06/22 23:38	AKS	SM5540 C-11
Ammonia as Nitrogen	0.06	0.05	mg/L	1	07/08/22	KDB	E350.1
Oil and Grease by EPA 1664A	< 1.4	1.4	mg/L	1	07/08/22	MSF	EPA 1664A
Salinity	16.9	0.5	ppt	1	07/11/22	PK	SM2520B-10

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

Comments:

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

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

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

Phyllis Shiller, Laboratory Director

July 13, 2022

Reviewed and Released by: Rashmi Makol, Project Manager



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

QA/QC Report

July 13, 2022

QA/QC Data

SDG I.D.: GCL69958

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 631905 (mg/L), QC Sample No: CL69850 (CL69958)													
MBAS	BRL	0.05	<0.05	<0.05	NC	110			84.3			85 - 115	20
Comment: Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 632130 (mg/L), QC Sample No: CL70236 (CL69958)													
Oil and Grease by EPA 1664A	BRL	1.4	<1.4	<1.4	NC	98.0			93.0			85 - 115	20
Comment: Additional: MS acceptance range 75-125%.													
QA/QC Batch 632022 (umhos/cm), QC Sample No: CL70311 (CL69958)													
Conductivity	BRL	5.00	212	209	1.40	96.4						85 - 115	20
Comment: Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 631972 (mg/L), QC Sample No: CL69932 (CL69958)													
Ammonia as Nitrogen	BRL	0.05	0.26	0.27	3.80	104			98.4			90 - 110	20
QA/QC Batch 631835 (mg/L), QC Sample No: CL69958 (CL69958)													
Chlorine Residual	BRL	0.02	<0.02	0.03	NC	110							

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

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference


Phyllis Shiller, Laboratory Director
July 13, 2022

Wednesday, July 13, 2022
Criteria: CT: GWP, SWP
State: CT

Sample Criteria Exceedances Report
GCL69958 - ATC-EHDAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL	Analysis Units
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*** No Data to Display ***

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



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc.

Client: ATC Associates

Project Location: SIMSBURY MS4

Project Number:

Laboratory Sample ID(s): CL69958

Sampling Date(s): 7/1/2022

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

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

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

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Rashmi Makol **Position:** Project Manager

Printed Name: Rashmi Makol **Date:** Wednesday, July 13, 2022

Name of Laboratory Phoenix Environmental Labs, Inc.

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



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



RCP Certification Report

July 13, 2022

SDG I.D.: GCL69958

SDG Comments

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

Temperature above 6C:

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

Wet Chemistry Analysis

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

Instrument:

BECKMAN DU720 07/06/22-1 Shawn Akomeah, Chemist 07/06/22

CL69958

The initial calibration met all criteria including a standard run at the reporting level.
All method verification standards and blanks met criteria.

QC (Batch Specific):

Batch 631905 (CL69850)

CL69958

All LCS recoveries were within 85 - 115 with the following exceptions: None.
Additional criteria matrix spike acceptance range is 75-125%.

Batch 632022 (CL70311)

CL69958

All LCS recoveries were within 85 - 115 with the following exceptions: None.
Additional criteria matrix spike acceptance range is 75-125%.

Batch 632130 (CL70236)

CL69958

All LCS recoveries were within 85 - 115 with the following exceptions: None.
Additional: MS acceptance range 75-125%.
Additional criteria matrix spike acceptance range is 75-125%.

NITROGEN

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

Instrument:

LACHAT 07/08/22-1 Kandi Della Bella, Chemist 07/08/22

CL69958

The initial calibration met all criteria including a standard run at the reporting level.
All method verification standards and blanks met criteria.

QC (Batch Specific):

Batch 631972 (CL69932)



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



RCP Certification Report

July 13, 2022

SDG I.D.: GCL69958

NITROGEN

CL69958

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

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

Temperature Narration

The samples were received at 9.3C with cooling initiated.

(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

ATTACHMENT IV

Farmington River Watershed Association
(FRWA)
Town of Simsbury:
2022 Bacteria Sampling

ID	Sampling Date	Latitude	Longitude	Proximity to Location	DEEP Station	Landmark/Facility Name	Bacterial	
							Escheriachia Coli	Total Coliforms
							MPN/100mL	
FR-S1	6/21/2022	41.847538	-72.807207	Downstream	15832	Rte 185 Bridge/Pinchot Sycamore	66.3	2419.6
	7/12/2022	41.847538	-72.807207	Downstream	15832	Rte 185 Bridge/Pinchot Sycamore	16.9	>2419.6
	7/26/2022	41.847538	-72.807207	Downstream	15832	Rte 185 Bridge/Pinchot Sycamore	110.0	2419.6
	8/9/2022	41.847538	-72.807207	Downstream	15832	Rte 185 Bridge/Pinchot Sycamore	45.2	>2419.6
	8/23/2022	41.847538	-72.807207	Downstream	15832	Rte 185 Bridge/Pinchot Sycamore	42.6	2419.6
	9/8/2022	41.847538	-72.807207	Downstream	15832	Rte 185 Bridge/Pinchot Sycamore	179.3	>2419.6
FR-S2 WPCF outfall	6/21/2022	41.869611	-72.796802	Upstream	16223	Paine Boathouse crew	51.2	2419.6
	7/12/2022	41.869611	-72.796802	Upstream	16223	Paine Boathouse crew	83.9	2419.6
	7/26/2022	41.869611	-72.796802	Upstream	16223	Paine Boathouse crew	325.5	>2419.6
	8/9/2022	41.869611	-72.796802	Upstream	16223	Paine Boathouse crew	57.3	>2419.6
	9/8/2022	41.869611	-72.796802	Upstream	16223	Paine Boathouse crew	344.8	>2419.6
	8/23/2022	41.869611	-72.796802	Upstream	16223	Paine Boathouse crew	18.5	2419.6
FR-S3	6/21/2022	41.869387	-72.792385	At	16224	Riverside Dr boat launch	50.4	2419.6
	7/12/2022	41.869387	-72.792385	At	16224	Riverside Dr boat launch	52.0	>2419.6
	7/26/2022	41.869387	-72.792385	At	16224	Riverside Dr boat launch	91.0	>2419.6
	8/9/2022	41.869387	-72.792385	At	16224	Riverside Dr boat launch	53.6	>2419.6
	8/23/2022	41.869387	-72.792385	At	16224	Riverside Dr boat launch	27.9	2419.6
	9/8/2022	41.869387	-72.792385	At	16224	Riverside Dr boat launch	307.6	>2419.6
HB-S2	6/21/2022	41.868554	-72.806164	At	16226	US RT 10 Bridge, Ensign Bickford	62.0	1732.9
	7/12/2022	41.868554	-72.806164	At	16226	US RT 10 Bridge, Ensign Bickford	35.5	>2419.6
	7/26/2022	41.868554	-72.806164	At	16226	US RT 10 Bridge, Ensign Bickford	224.7	>2419.6
	8/9/2022	41.868554	-72.806164	At	16226	US RT 10 Bridge, Ensign Bickford	261.3	>2419.6
	8/23/2022	41.868554	-72.806164	At	16226	US RT 10 Bridge, Ensign Bickford	71.2	2419.6
	9/8/2022	41.868554	-72.806164	At	16226	US RT 10 Bridge, Ensign Bickford	167	>2419.6
MB-S1	6/21/2022	41.913948	-72.782077	At	16228	Town Farm Dairy, ds runway	22.8	2419.6
	7/12/2022	41.913948	-72.782077	At	16228	Town Farm Dairy, ds runway	13.4	>2419.6
	7/26/2022	41.913948	-72.782077	At	16228	Town Farm Dairy, ds runway	3.0	>2419.6
	8/9/2022	41.913948	-72.782077	At	16228	Town Farm Dairy, ds runway	27.5	>2419.6
	8/23/2022	41.913948	-72.782077	At	16228	Town Farm Dairy, ds runway	31.8	>2419.6
	9/8/2022	41.913948	-72.782077	At	16228	Town Farm Dairy, ds runway	816.4	>2419.6
MS-S1	6/21/2022	41.837236	-72.816546	Downstream	16230	Latimer Lane intersection Rte 10	86.5	2419.6
	7/12/2022	41.837236	-72.816546	Downstream	16230	Latimer Lane intersection Rte 10	816.4	>2419.6
	7/26/2022	41.837236	-72.816546	Downstream	16230	Latimer Lane intersection Rte 10	1553.1	>2419.6
	8/9/2022	41.837236	-72.816546	Downstream	16230	Latimer Lane intersection Rte 10	517.2	>2419.6
	8/23/2022	41.837236	-72.816546	Downstream	16230	Latimer Lane intersection Rte 10	517.2	>2419.6
	9/8/2022	41.837236	-72.816546	Downstream	16230	Latimer Lane intersection Rte 10	816.4	>2419.6
RB-S1	6/21/2022	41.841736	-72.813209	Downstream	16231	Weatogue Park/ Rte 10	224.7	2419.6
	7/12/2022	41.841736	-72.813209	Downstream	16231	Weatogue Park/ Rte 10	920.8	>2419.6
	7/26/2022	41.841736	-72.813209	Downstream	16231	Weatogue Park/ Rte 10	76.2	>2419.6
	8/9/2022	41.841736	-72.813209	Downstream	16231	Weatogue Park/ Rte 10	579.4	>2419.6
	8/23/2022	41.841736	-72.813209	Downstream	16231	Weatogue Park/ Rte 10	187.2	>2419.6
	9/8/2022	41.841736	-72.813209	Downstream	16231	Weatogue Park/ Rte 10	248.1	>2419.6

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

**Farmington River Watershed Association
(FRWA)
Town of Simsbury:
2022 Chlorine Sampling**

ID	Sampling Date	Latitude	Longitude	Proximity to Location	Location Description	General Parameters						
						Chloride (ppm)	Conductivity (uS/cm)	Specific Conductivity (uS/cm)	Salinity (psu)	Total Dissolved Solids (mg/L)	Turbidity (NTU)	Chlorine (mV)
FR-S1	5/27/2022	41.847538	-72.807207	Downstream	Rte 185 Bridge/Pinchot Sycamore	43	199.6	222.5	0.11	5009.3	93.6	58
	6/21/2022	41.847538	-72.807207	Downstream	Rte 185 Bridge/Pinchot Sycamore	43	215	239.1	0.11	4652	92.8	64
	7/12/2022	41.847538	-72.807207	Downstream	Rte 185 Bridge/Pinchot Sycamore	59	288.1	296.5	0.14	3470.5	95	80
	8/18/2022	41.847538	-72.807207	Downstream	Rte 185 Bridge/Pinchot Sycamore	51	271.6	287.4	0.14	3681.3	95.9	81
	11/14/2022	41.847538	-72.807207	Downstream	Rt 185 Bridge/Pinchot Sycamore	25	128.6	174.3	0.08	113	2.03	180.5
FR-S3	1/14/2022	41.86908	-72.79261	At	Boat Launch	32	--	--	--	--	--	--
	1/18/2022	41.86908	-72.79261	At	Boat Launch	91	--	--	--	--	--	--
HB-S2	5/31/2022	41.868554	-72.806164	at	US RT 10 Bridge, Ensign Bickford	43	226.8	244.5	0.12	4408.2	95.9	53
	6/21/2022	41.868554	-72.806164	At	US RT 10 Bridge, Ensign Bickford	43	220	258.6	0.12	4545.2	98	60
	7/27/2022	41.868554	-72.806164	At	US RT 10 Bridge, Ensign Bickford	43	241.1	264.5	0.13	4147.5	94.4	56
	8/18/2022	41.868554	-72.806164	At	US RT 10 Bridge, Ensign Bickford	51	283.3	309.6	0.15	3529.3	102.6	82
	11/14/2022	41.868554	-72.806164	At	US RT 10 Bridge, Ensign Bickford	36	71.5	106.8	0.05	69	0.4	187.5
MS-S1	5/27/2022	41.837236	-72.816546	Downstream	Latimer Lane intersection Rte 10	68	348.8	394.6	0.19	2866.8	93.8	94
	6/21/2022	41.837236	-72.816546	Downstream	Latimer Lane intersection Rte 10	59	354.7	411.8	0.2	2819.3	92.8	102
	7/12/2022	41.837236	-72.816546	Downstream	Latimer Lane intersection Rte 10	77	416.8	454.4	0.22	2399.2	88	121
	8/18/2022	41.837236	-72.816546	Downstream	Latimer Lane intersection Rte 10	87	455.3	511.5	0.25	2196.2	59.8	115
	11/10/2022	41.837236	-72.816546	Downstream	Latimer Lane intersection Rte 10	77	312.6	454.9	0.22	296	0.96	162.3
RB-S1	5/27/2022	41.841736	-72.813209	Downstream	Weatogue Park/ Rte 10	59	285.3	353.1	0.17	3505.2	94.2	80
	6/21/2022	41.841736	-72.813209	Downstream	Weatogue Park/ Rte 10	59	281.3	348.2	0.17	3554.4	95.8	68
	7/12/2022	41.841736	-72.813209	Downstream	Weatogue Park/ Rte 10	68	309.2	358.5	0.17	3233.7	94.8	81
	8/18/2022	41.841736	-72.813209	Downstream	Weatogue Park/ Rte 10	51	314.4	362.7	0.17	3180.5	93.5	94
	11/10/2022	41.841736	-72.813209	Downstream	Weatogue Park/ Rte 10	59	263.3	353.5	0.17	230	0.08	170.7
SB-1060	11/14/2022	41.848562	-72.813301	Downstream	culvert on Canal St.	77	164.6	239.1	0.11	155	1.08	174.8

Notes:

- * All highlighted bacterial concentrations are required for follow-up investigations at associated outfall.
- * Highlighting is based on the following criteria;
- 1. Ammonia: >0.5 mg/L
- 2. Surfactants (MBAS): > 0.25 mg/L
- 3. Chlorine: detectable level
- 4. Conductivity: >1,500 uS
- 5. Salinity: ≥ 0.5 ppt
- 6. Turbidity >5 NTU

ATTACHMENT V

Town of Simsbury
Catchment Assessment
and
Priority Ranking Matrix

Catchment ID	Number of Outfalls Included	Receiving Water(s)	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% ⁹	Impaired Waterbody	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	CLEAR	CLEAR		
Scoring Criteria			Yes = 3 (Problem Catchment)	Yes = 3	Frequent = 3	Poor = 3	High = 3	High = 3	Yes = 3	Yes = 3	Yes = 3	Description	Yes=2	Yes =1	Yes =1	Yes =1		
			No = 0	No = 0	Occasional = 2	Fair = 2	Medium = 2	Medium = 2	No = 0	No = 0	No = 0		No=0	No = 0	No = 0	No = 0		
					None = 0	Good = 0	Low = 1	Low = 1										
4300-00-5+R10	0	Farmington River	0	0	0	3	1	1	0		1	Agricultural land, some wooded areas.	0	1	0	1	8	Problem
4300-00-5+R11	0	Farmington River	3	0	0	3	1	1	0		1	Wooded with majority of basin made up of Russel Brook.	0	1	0	1	11	High Priority
4300-00-5+R12	7	Farmington River	0	0	0	3	2	2	0		0	Highly Commercialized/industrialized with wooded or cleared areas.	0	1	0	1	9	Problem
4300-00-5+R13	11	Farmington River	0	0	0	3	2	2	0		0	Mixture of commercial and agricultural areas.	0	1	0	1	9	Problem
4300-00-5+R14	3	Farmington River, unamed stream	3	0	0	3	1	1	0		1	Agricultural land with some residential areas	0	1	0	1	11	High Priority
4300-00-5+R15	9	Farmington River	0	0	0	3	1	1	0		0	Agricultural land with some residential areas	0	1	0	1	7	Problem
4300-00-5+R16	0	Farmington River	0	1	0	3	1	1	0		0	Agricultural land with some residential areas. Small portion of aquifer protection area loctaed on the northeast corner of the catchment.	0	1	0	1	8	Problem
4300-00-5+R17	0	Farmington River	0	1	0	3	2	1	0		0	Wooded land with the Westminster School. Aquifer protection areas.	0	1	0	1	9	Problem
4300-00-5+R18	4	Farmington River	0	1	0	3	1	1	0		1	Mixture of commercial and agricultural areas.	0	1	0	1	9	Problem
4300-00-5+R19	8	Farmington River	3	1	0	3	2	2	0		0	Residential, wooded, and some agricultural.	0	1	0	1	13	High Priority
4300-00-5+R20	5	Farmington River	0	0	0	3	2	1	0		0	Residential and wooded.	0	1	0	1	8	Problem
4300-00-5+R21	3	Farmington River	3	1	0	3	2	1	0		0	Residential and wooded.	0	1	0	1	12	High Priority

Town of Simsbury
Catchment Assessment
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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	CLEAR	CLEAR		
Scoring Criteria			Yes = 3 (Problem Catchment)	Yes = 3	Frequent = 3	Poor = 3	High = 3	High = 3	Yes = 3	Yes = 3	Yes = 3	Description	Yes=2	Yes =1	Yes =1	Yes =1		
			No = 0	No = 0	Occasional = 2	Fair = 2	Medium = 2	Medium = 2	No = 0	No = 0	No = 0		No=0	No = 0	No = 0	No = 0		
					None = 0	Good = 0	Low = 1	Low = 1										
4300-00-5+R22	7	Farmington River	0	0	0	3	3	1	0		0	Mainly residential housing with wooded areas.	0	1	0	1	9	Problem
4300-00-5+R8	3	Farmington River	0	1	0	3	2	1	0		0	Mixture of commercial, agricultural, and golf parks.	0	1	0	1	9	Problem
4300-00-5+R9	0	Farmington River	0	1	0	3	2	1	0		0	Mixture of commercial and wooded areas	0	1	0	1	9	Problem
4300-32-1	41	Farmington River, Minister Brook	3	0	0	3	3	2	0		1	Highly residential/commercialized areas	2	1	0	1	16	High Priority
4300-33-1	22	Russel Brook	3	0	0	3	2	2	0		1	Highly residential/commercialized areas with some wooded areas.	0	1	0	0	12	High Priority
4300-34-1	20	Still Brook, Smiths Pond	3	0	0	0	2	2	0		3	Mostly wooded, some residential housing, light commercial	0	1	0	0	11	High Priority
4300-35-1	13	Powder Mill Brook, King Phillip Brook	0	0	0	0	1	2	0		3	Wooded, light residential housing	0	0	0	0	6	Problem
4300-36-1*	8	Powder Mill Brook, King Phillip Brook	0	3	0	0	1	1	0		3	Wooded, light residential housing, some cleared agricultural land	0	0	0	0	8	Problem
4300-37-1	10	Second Brook, Farmington River	0	0	0	3	1	1	0		3	Wooded with light residential housing	0	1	0	0	9	Problem
4300-38-1	6	Lucy Brook	3	0	0	0	1	1	0		3	Wooded with very light residential	0	1	0	0	9	Problem
4300-39-1	38	Owens Brook, Farmington River	3	0	0	3	3	2	0		3	Mainly residential housing with wooded areas.	0	1	0	1	16	High Priority
4300-39-2-R1	0	Owens Brook, Farmington River	0	0	0	3	1	1	0		0	Wooded with cleared undeveloped land	0	1	0	1	7	Problem
4300-40-1	16	Unnamed Streams	0	0	0	0	2	2	0		0	Commercial/ Marshland, some cleared agricultural	0	1	0	0	5	Low Priority

Town of Simsbury
Catchment Assessment
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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	CLEAR	CLEAR		
Scoring Criteria			Yes = 3 (Problem Catchment)	Yes = 3	Frequent = 3	Poor = 3	High = 3	High = 3	Yes = 3	Yes = 3	Yes = 3	Description	Yes=2	Yes =1	Yes =1	Yes =1		
			No = 0	No = 0	Occasional = 2	Fair = 2	Medium = 2	Medium = 2	No = 0	No = 0	No = 0		No=0	No = 0	No = 0	No = 0		
					None = 0	Good = 0	Low = 1	Low = 1										
4300-41-1	6	Unnamed Streams	0	3	0	0	1	2	0		3	Mostly wooded, some residential housing and cleared agricultural land	0	0	0	0	9	Problem
4300-42-1	18	Bissel Brook	0	3	0	0	2	2	0		3	Cleared agricultural land, some residential housing and wooded areas	2	1	0	0	13	High Priority
4300-43-1	10	Saxton Brook		3	0	0	1	1	0		3	Agricultural land, some wooded area, residential housing, commercial, marshland	2	1	0	0	11	High Priority
4300-44-1	0	Munnisunk Brook, Lake Basile, Wadhams Pond	3	3	0	2	2	2	0		3	Residential housing, some wooded area, light agricultural land, commercial (airport)	0	1	0	0	16	High Priority
4300-44-1-L1	11	Munnisunk Brook, Lake Basile, Wadhams Pond	0	3	0	2	2	2	0		3	Residential housing, some wooded area, light agricultural land	0	1	0	0	13	High Priority
4300-47-1	0	Griffin Brook, Three Unnamned Streams, Penwood Pond, Wadhams Pond	0	0	0	0	1	1	0		3	Wooded, light residential housing	0	0	0	0	5	Low Priority
4309-02-1	0	Unnamed Streams, Tilton Pond	0	0	0	0	1	1	0		3	Wooded, light residential housing, little agricultural land	0	0	0	0	5	Low Priority
4309-03-1	0	Unnamed Streams	0	0	0	0	1	1	0		3	Wooded, light residential housing, little agricultural land	0	0	0	0	5	Low Priority
4317-00-1	71	Nod Brook	0	3	0	3	2	2	0		3	Residential housing, some wooded and commercial	2	1	0	0	16	High Priority

Town of Simsbury
Catchment Assessment
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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	CLEAR	CLEAR		
Scoring Criteria			Yes = 3 (Problem Catchment)	Yes = 3	Frequent = 3	Poor = 3	High = 3	High = 3	Yes = 3	Yes = 3	Yes = 3	Description	Yes=2	Yes =1	Yes =1	Yes =1		
			No = 0	No = 0	Occasional = 2	Fair = 2	Medium = 2	Medium = 2	No = 0	No = 0	No = 0		No=0	No = 0	No = 0	No = 0		
					None = 0	Good = 0	Low = 1	Low = 1										
4317-00-2-L1	3	Nod Brook, Stub Pond	0	3	0	3	2	2	0		3	Residential housing, some wooded and commercial	2	1	0	0	16	High Priority
4317-00-2-R1	1	Nod Brook Twin Ponds	0	3	0	3	2	2	0		3	Residential housing, some wooded and commercial	0	1	0	0	14	High Priority
4317-01-1	9	Wiggin Brook	0	3	0	0	2	2	0		3	Commercial, moderate residential housing, some wooded area	0	1	0	0	11	High Priority
4318-00-1	16	Hop Brook	0	3	0	3	2	2	0		3	Wooded, cleared land (golf courses), some agricultural land, and residential housing, light commercial	2	1	0	1	17	High Priority
4318-00-1-L1	9	Hop Brook, Tutler Rservoir	0	3	0	3	1	2	0		3	Wooded, some residential housing	0	0	0	0	12	High Priority
4318-00-2-R1	9	Hop Brook	0	3	0	3	1	2	0		3	Wooded, some residential housing, agricultural land, golf course	0	1	0	1	14	High Priority
4318-00-2-R2	25	Hop Brook	0	3	0	3	2	2	0		3	Wooded, golf course, residential housing, light farmland	2	1	0	1	17	High Priority
4318-00-3-R1	1	Hop Brook	0	3	0	3	1	1	0		0	Wooded, recreational fields and track	0	1	0	1	10	High Priority
4318-00-3-R2	25	Hop Brook	3	3	0	3	3	1	0		3	Commercial, golf course, recreational fields	0	1	0	1	18	High Priority
4318-01-1	37	Unnamed Stream	0	0	0	0	1	2	0		3	Wooded. Some residential housing, light agricultural land	2	1	0	0	9	Problem
4318-02-1	4	Great Pond Brook, Brooks Pond, Unnamed Stream	0	1	0	0	1	2	0		3	Wooded, light residential housing	0	1	0	0	8	Problem
4318-02-1-L1	7	Unnamed Stream, Great Pond	0	0	0	0	1	1	0		3	Wooded, some agricultural land, light residential	0	1	0	0	6	Problem
4318-03-1	19	Stratton Brook	0	3	0	0	2	2	0		0	Wooded, residential	2	1	0	1	11	High Priority
4318-03-2-R1	23	Stratton Brook	0	3	0	0	2	2	0		3	Wooded, some residential housing, light agricultural land	0	1	0	1	12	High Priority

Town of Simsbury
Catchment Assessment
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Priority Ranking Matrix

Catchment ID	Number of Outfalls Included	Receiving Water(s)	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% ⁹	Impaired Waterbody	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	CLEAR	CLEAR		
Scoring Criteria			Yes = 3 (Problem Catchment)	Yes = 3	Frequent = 3	Poor = 3	High = 3	High = 3	Yes = 3	Yes = 3	Yes = 3	Description	Yes=2	Yes =1	Yes =1	Yes =1		
			No = 0	No = 0	Occasional = 2	Fair = 2	Medium = 2	Medium = 2	No = 0	No = 0	No = 0		No=0	No = 0	No = 0	No = 0		
					None = 0	Good = 0	Low = 1	Low = 1										
4318-04-1	17	Unnamed Stream, Case Reservoir	0	3	0	0	2	2	0		3	Wooded, agricultural land, residential housing, light commercial	0	1	0	0	11	High Priority
4318-04-1-L1	6	Unnamed Stream	0	3	0	0	1	2	0		3	Wooded, some residential housing	2	1	0	0	12	High Priority
4318-05-1	40	Grimes Brook	0	0	0	0	3	2	0		3	Residential housing, some agricultural land, light commercial	2	1	0	0	11	High Priority
4318-06-1	17	Unnamed Stream	0	0	0	0	2	1	0		3	Residential housing, some recreational fields, light wooded	2	1	0	0	9	Problem
4319-10-1	42	Bissell Brook	0	0	0	0	2	2	0		3	Wooded and residential housing	0	1	0	0	8	Problem
4319-10-2-L1	17	Bissel Brook	0	0	0	0	1	2	0		3	Wooded, aome agricultural land and residential	0	1	0	0	7	Problem
4319-11-1	1	Unnamed Stream	0	0	0	0	1	1	0		3	Wooded	0	0	0	0	5	Low Priority

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. • Poor = Waters with approved TMDLs (Category 4a Waters) where illicit discharges have the potential to contain the pollutant identified as the cause of the impairment • Fair = Water quality limited waterbodies that receive a discharge from the MS4 (Category 5 Waters) • Good = No water quality impairments ⁴ Generating sites are institutional, municipal, commercial, or industrial sites with a potential to contribute to illicit discharges (e.g., car dealers, car washes, gas stations, garden centers, industrial manufacturing, etc.) ⁵ Age of development and infrastructure: • High = Industrial areas greater than 40 years old and areas where the sanitary sewer system is more than 40 years old • Medium = Developments 20-40 years old • Low = Developments less than 20 years old ⁶ Areas once served by combined sewers and but have been separated, or areas once served by septic systems but have been converted to sanitary sewers. ⁷ Aging septic systems are septic systems 30 years or older in residential areas. ⁸ Any river or stream that is culverted for distance greater than a simple roadway crossing. ⁹ Based off of CT NEMO DCIA Calculations Pending investigation