

2020 ANNUAL REPORT

***General Permit for the Discharge of Stormwater from
Small Municipal Separate Storm Sewer Systems (MS4)***

Registration No. GSM000021

for

*Town of Cheshire, CT
84 South Main Street
Cheshire, CT 06410*



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MS4 General Permit
Town of Cheshire 2020 Annual Report
Existing MS4 Permittee
Permit Number GSM000021
January 1, 2020 – December 31, 2020

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This report documents Town of Cheshire efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 1, 2020 to December 31, 2020.

Due to budget cuts caused by the COVID-19 pandemic, the Town was not able to replace its Town Engineer position after a retirement. It also lost 50% of the Assistant Town Engineer position to Board of Education capital projects management, and was unable to hire any summer interns to perform field inspections and tablet field data collection and photograph outfalls, and outfall monitoring for the first time since 2017. This set back the Town's MS4 program efforts until late in the year when they were able to hire a Town Engineer consulting firm (whose activities were directed by an experienced Licensed Environmental Professional (LEP)).

After staff presentations and an operating budget public hearing process, the Town Council granted approval for \$20,000 towards consultants and activities pertaining to the implementation and enhancement of MS4 permit program. Another \$40k funding request has been made for F.Y. 21/22, operating budget which is currently under review by the Town Council. A separate capital budget request of \$110,000 for the MS4 program was approved, with a significant portion of these funds being utilized to retain the professional environmental engineering services of Barton & Loguidice to assist the Town with the management and implementation of the MS4 program. This includes performing wet and dry weather outfall monitoring and sampling for the purpose of evaluating stormwater disconnects and to identify potential sources of pollution for IDDE investigations.

Part I: Summary of Minimum Control Measure Activities

1. PUBLIC EDUCATION AND OUTREACH (Section 6 (a)(1) / page 19)

1.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed/ projected	Additional details
1-1 Implement public education and outreach	Complete/ Ongoing	Publications by NEMO are available through the following offices: <ul style="list-style-type: none"> • Planning & Zoning • Inland Wetlands • Engineer/Public Works • Chesprocott Health District 	Maintain copies of selected NEMO and QRWA brochures in Town Hall and water quality literature in the Town Library. Rotate brochure content semi-annually.	Environmental Planner	Ongoing	Ongoing	The Town also plans on adding education materials to the stormwater website. The entire Town website will be updated in the spring of 2021.
	In Progress	The Town is in the process of collecting materials to post to the Town website.	Update Town's website to include links to stormwater related sites.	Environmental Planner	Ongoing	7/1/21	
	Complete/ Ongoing	The Town promotes participation in the Whitney Water Center educational programs, operated by the South Central CT Regional Water Authority (RWA). The RWA provides a program available to 6th, 7th, and 8th graders entitled W.A.T.E.R., which includes classroom and field activities such as a field trip to the local waterbodies to test pH, dissolved oxygen and nitrate levels to assess the impact that human activities have on water quality.	Coordinate with local schools to promote use of educational programs offered by Whitney Water Center.	Town Engineer	Ongoing	Ongoing	These programs were suspended in 2020 due to COVID-19 restrictions.
	Complete/ Ongoing	The Town provided notice of the adopted Illicit Discharge Ordinance with the sanitary sewer tax bills in December 2020.	Assess feasibility of mailing stormwater-related education materials with tax bills. Based on the outcome of this goal, send materials with tax bills.	Town Engineer	Not Specified	12/31/21	
	To Be Started	None	Assess feasibility of having the Town's Environment Commission to coordinate the Town's public education program.	Environmental Planner	Not Specified	12/31/21	

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed/ projected	Additional details
1-2 Address education/ outreach for pollutants of concern	To Be Started	In 2021, the Town anticipates having copies of "Caring for Your Septic System" for distribution in the Planning Department.	Place copies of "Caring for Your Septic System" in the Planning Department for free distribution.	Environmental Planner	Ongoing	7/1/21	The Town also plans on adding "Caring for Your Septic System" to the stormwater website.
	To Be Started	The Town anticipates developing educational materials targeted to industries in 2021.	Develop or identify from other source(s) education materials targeted to industries, with at least one material being targeted to agricultural uses or bedding plant growers. Mail materials to local industries.	Town Engineer with Chamber of Commerce	Not Specified	12/31/21	The Town also plans on adding education materials to the stormwater website.
	To Be Started	None	Send letter to local dentists to ensure compliance with mercury removal equipment.	Town Engineer	Not Specified	12/31/21	
1-3 Work with local organizations to promote environmental activities	Complete/ Ongoing	Notifications of education programs offered by the Southwest Conservation District (SCD) are available at the Town Hall.	Post notifications of education programs offered by the Southwest Conservation District (SCD) at the Town Hall.	Environmental Planner	Not Specified	Ongoing	The Town also plans on adding education materials to the stormwater website.
	To Be Started	The Town anticipates on finding ways to provide public notice of QRWA activities in 2021.	Establish contact with QRWA and identify avenues Town staff can use to provide public notice of QRWA activities.	Environmental Planner	Not Specified	12/31/21	
1-4 Educate municipal officials and land use commissions on proper SW management	To Be Started	The Town anticipates presenting proper stormwater management to Town staff and land use commissions in 2021.	Coordinate one NEMO or Southwest Conservation District or knowledgeable technical staff to present to Town staff and land use commissions.	Town Planner	Not Specified	12/31/21	

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

- Maintain copies of selected NEMO and QRWA brochures in Town Hall and water quality literature in the Town Library.
- Update the Town’s Stormwater webpage to include stormwater related education information.
- If COVID restrictions allow, continue to coordinate with local schools to promote use of educational programs offered by Whitney Water Center.
- Assess feasibility of mailing stormwater-related education materials with tax bills. Based on the outcome of this goal, send materials with tax bills.
- Assess feasibility of having the Town’s Environment Commission to coordinate the Town’s public education program.
- Provide copies of “Caring for Your Septic System” in the Planning Department.
- Develop educational materials targeted to industries.
- Send letter to local dentists to ensure compliance with mercury removal equipment.
- Continue to post notifications of education programs offered by the Southwest Conservation District (SCD) at the Town Hall.
- Provide public notice of QRWA activities in 2021.
- Provide proper stormwater management education to Town staff and land use commissions.

1.3 Details of activities implemented to educate the community on stormwater

Program Element/Activity	Audience (and number of people reached)	Topic(s) covered	Pollutant of Concern addressed (if applicable)	Responsible dept. or partner org.
Public Notification of Illicit Discharge and Connection Stormwater Ordinance	All Sewer Users (Information provided in Sewer Use bill mailing)	Illicit Discharge Ordinance	All	Town Engineer and Water Pollution Control Authority
2020 Annual Fall Festival Stormwater Poster Boards/Kiosk – CANCELLED due to COVID-19	General Public	General Stormwater Management	All	Town Environment Commission and Cheshire Land Trust
2020 Clean-Up Events – CANCELLED due to COVID-19	General Public	Environmental Clean-Up	Not Applicable	Town Environment Commission and Cheshire Land Trust
Environmental/Nature Kiosks on open space properties	General Public	Environment	Not Applicable	Town Environment Commission and Cheshire Land Trust
RWA Hazardous Waste collection May-October 2020	Waste disposal was collected from 440 households in 2020	Hazardous Waste Disposal	Not Applicable	RWA/Public Works Department
Electronic Recycling Event April – CANCELLED due to COVID-19 August 15, 2020 November 7, 2020	General Public 24,488 lbs (337 cars) 14,490 lbs (176 cars)	Electronic Waste Disposal	Not Applicable	Public Works Department
Mattress Recycling – 2 Events	General Public 443 total mattresses collected	Mattress Recycling	Not Applicable	Public Works Department
Curbside Yard Waste Pick Up	General Public 250 tons leaves 240 bags grass clippings	Yard Waste Disposal	Not Applicable	Public Works Department
Scrap Metal Collection	General Public 34,780 lbs scrap metal recycled	Scrap Metal Recycling	Not Applicable	Public Works Department
Asphalt Millings Recycling	General Public	Use of recycled millings to stabilize dirt parking areas and driveways	Sediment	Public Works Department

2. PUBLIC INVOLVEMENT/PARTICIPATION (Section 6(a)(2) / page 21)

2.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed/ projected	Additional details
2-1 Final Stormwater Management Plan publicly available	Complete	Notice of the SMP's availability was provided in compliance with the General Permit.	Place draft copy of plan in Town Engineer's Office on or before February 15, 2017.	Town Engineer	2/15/17	2017	The Town Stormwater Management Plan is maintained for public Inspection online and at the Town Engineer/ Department of Public Works office.
	Complete	Notice of the SMP's availability was provided to the QRWA.	Provide notice to the QRWA that the draft plan is available for public comment.	Town Engineer	Not Specified	2017	
2-2 Comply with public notice requirements for Annual Reports			Notify public of draft Annual Report and document comments received.	Town Engineer	Annually by Feb 15	3/12/21	

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

- Continue to provide notice of draft Annual Reports and updates to the Town's SMP.

2.3 Public Involvement/Participation reporting metrics

Metrics	Implemented	Date	Posted
Availability of the Stormwater Management Plan announced to public	Yes	2017	https://www.cheshirect.org/public-works/stormwater-management/
Announcement to public and availability of Annual Report	Yes	Notice post 3/12/21 Draft available 2/3/21	https://www.cheshirect.org/public-works/stormwater-management/

3. ILLICIT DISCHARGE DETECTION AND ELIMINATION (Section 6(a)(3) and Appendix B / page 22)

3.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed/ projected	Additional details
3-1 Develop written IDDE program	In Progress	The Town has contracted with a consultant that is currently drafting an IDDE plan for the Town.	Develop written plan of IDDE program.	Town Engineer	7/1/18	12/31/21	

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed/ projected	Additional details
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas	Substantially Complete	The Town conducted significant efforts to locate and confirm the locations of outfalls in priority areas and have located many new outfalls that were not previously identified.	Prepare GIS Map Layer of priority outfalls.	Town Engineer	7/1/19	12/31/21 Ongoing	The Town will continue to update its mapping as new information is gathered.
3-3 Implement citizen reporting program	Complete/ Ongoing	A phone number was added to the Town's stormwater webpage for reporting illegal discharges. The Town also added MS4 categories to the existing IWorQ system.	Use IWorQ for citizen reporting.	Town Engineer	Ongoing	7/1/17	
3-4 Establish legal authority to prohibit illicit discharges	Complete	Town Council approved an Illicit Discharge and Connection Stormwater Ordinance, which became effective on 10/1/19.	Revise Sewer Regulations.	Town Engineer	7/1/18	9/17/19	
3-5 Develop record keeping system for IDDE tracking	Complete	Specific fields were added to IWorQ for tracking IDDE.	Use IWorQ for IDDE tracking.	Town Engineer	7/1/17	7/1/18	
3-6 Address IDDE in areas with pollutants of concern	In Progress	See comment in table below.	Evaluate areas with pollutants of concern for IDDE.	Town Engineer	Not specified	Ongoing	
3-7 Develop detailed MS4 infrastructure mapping	In Progress	The Town has hired a consultant to assist with mapping of MS4 infrastructure. See comment in table below.	Prepare GIS Map Layers of MS4 infrastructure.	Town Engineer	7/1/20	12/31/21	
3-8 Complete list and maps of all MS4 stormwater outfalls throughout municipality	In Progress	In 2017-19, the Town hired a summer engineering student intern to inspect and document outfall conditions using tablet technology developed by Engineering Staff and GIS consultant.	Prepare GIS Map Layer of all outfalls.	Town Engineer	7/1/22	7/1/22	

3.1 BMP Summary Continued – Additional BMP activities

BMP	
3-6 Address IDDE in areas with pollutants of concern	While cleaning catch basins as part of the Town’s concerted effort to comply with MS4 requirements, Public Works crews are trained to be attentive to possible signs of contamination, and to keep records of any evidence of illicit discharges in addition to recording their pre-and post-cleaning measurements. Detailed digital inspection forms are now completed on IPADs, and resulting data can be queried. So far, no visible pollution has been reported in any structure during inspection or maintenance activities.
3-7 Develop detailed MS4 infrastructure mapping	The Town maintains a GIS database of gross particle separators, detention basins, retention basins, storm drains and outfalls. It is maintained electronically within the Town’s GIS system by the Public Works & Engineering Department. The Town continues to update this information in the field by use of a summer engineering intern using a tablet.

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

- Finalize written IDDE plan.
- Continue efforts to locate and confirm the locations of outfalls in priority areas.
- Continue to evaluate areas with pollutants of concern for IDDE.
- Continue to develop and update the stormwater system mapping.
- Develop a spreadsheet for IDDE tracking summarizing illicit discharges.

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

Date of Report	Location / suspected source	Response taken
Information unavailable at this time. (See note* below.)		

*Note: IWork is the system used for tracking illicit discharges. Currently these records and files are maintained separately by three different Town or quasi-Town entities, which are queried annually for a listing of the IDDE enforcement activities. An IDDE tracking spreadsheet will be prepared to obtain these details moving forward.

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

Location*	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)*
Exit 26 I 84 W & I 84 / Ex	1/17/2020; unknown	MS4	Unknown	Road freight or transport vehicle fire	Clean up performed and material disposed	N/A
Marion Road	2019; unknown	MS4	Unknown	Pipe lining company	Promptly and satisfactorily addressed.	N/A
Talmadge Road	2019; unknown	MS4	Unknown	Pool draining / Home owner	Promptly and satisfactorily addressed.	N/A
Sierra Court	2019; unknown	MS4	Unknown	Soil Erosion / Road contractor	Promptly and satisfactorily addressed.	N/A
Harrison Road	2019; unknown	MS4	Unknown	Cold asphalt patch runoff	Promptly and satisfactorily addressed.	N/A
400 Industrial Ave /Bozzu	3/10/2020; unknown	MS4	Unknown	Spill - Oil or other combustable liquid	Clean up performed and material disposed	N/A
Cheshire St & E Johnson A	3/13/2020; unknown	MS4	Unknown	Spill - Oil or other combustable liquid	Clean up performed and material disposed	N/A

Location*	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)*
E Johnson Ave & Highland	3/19/2020; unknown	MS4	Unknown	Spill - Oil or other combustable liquid	Clean up performed and material disposed	N/A
Highland Ave & 1 691 / Hig	3/26/2020; unknown	MS4	Unknown	Road freight or transport vehicle fire	Clean up performed and material disposed	N/A
40 Manor Dr	4/5/2020; unknown	MS4	Unknown	Spill - Oil or other combustable liquid	Clean up performed and material disposed	N/A
W Johnson Ave & Knotter D	5/4/2020; unknown	MS4	Unknown	Spill - Oil or other combustable liquid	Clean up performed and material disposed	N/A
12 Warren St	6/19/2020; unknown	MS4	Unknown	Spill - Oil or other combustable liquid	Clean up performed and material disposed	N/A
400 E Johnson Ave /Whole	6/26/2020; unknown	MS4	Unknown	Spill - Oil or other combustable liquid	Clean up performed and material disposed	N/A
30 Fieldstone Ct /Target	6/29/2020; unknown	MS4	Unknown	Spill - Gasoline or other flammable	Clean up performed and material disposed	N/A
1456 Highland Ave	6/30/2020; unknown	MS4	Unknown	Spill - Oil or other combustable liquid	Clean up performed and material disposed	N/A
110 Creamery Rd	7/15/2020; unknown	MS4	Unknown	Spill - Oil or other combustable liquid	Clean up performed and material disposed	N/A
140 Cook Hill Rd /Elim Pa	7/17/2020; unknown	MS4	Unknown	Spill - Oil or other combustable liquid	Clean up performed and material disposed	N/A
207 Wiese Rd	7/20/2020; unknown	MS4	Unknown	Spill - Gasoline or other flammable	Clean up performed and material disposed	N/A
106 Belridge Rd	7/31/2020; unknown	MS4	Unknown	Spill - Gasoline or other flammable	Clean up performed and material disposed	N/A
Highland Ave & Schoolhous	7/8/2020; unknown	MS4	Unknown	Spill - Oil or other combustable liquid	Clean up performed and material disposed	N/A
Coleman Road	8/2020; unknown	MS4	Unknown	Erosion Control Failure / Breach	Instructed contractor to repair erosion control	N/A
Crestwood Drive	8/2020-9/2020; unk	MS4	Unknown	Erosion Control Failure / Breach	Instructed contractor to repair erosion control	N/A
831 S Main St /Shell	8/9/2020; unknown	MS4	Unknown	Spill - Gasoline or other flammable	Clean up performed and material disposed	N/A
Academy Rd & Judson Ct /A	9/19/2020; unknown	MS4	Unknown	Spill - Oil or other combustable liquid	Clean up performed and material disposed	N/A
Mt Sanford Rd & S Brooksv	9/20/2020; unknown	MS4	Unknown	Spill - Gasoline or other flammable	Clean up performed and material disposed	N/A
Yalesville Road	9/2020; unknown	MS4	Unknown	Erosion Control Failure / Breach	Instructed contractor to repair erosion control	N/A
S Meriden Rd & Academy Rd	9/23/2020; unknown	MS4	Unknown	Spill - Gasoline or other flammable	Clean up performed and material disposed	N/A
45 Park Pl	9/25/2020; unknown	MS4	Unknown	Spill - Oil or other combustable liquid	Clean up performed and material disposed	N/A
Elmwood Dr & S Main St /E	10/14/2020; unknown	MS4	Unknown	Spill - Oil or other combustable liquid	Clean up performed and material disposed	N/A
901 Waterbury Rd /Shell G	10/27/2020; unknown	MS4	Unknown	Spill - Oil or other combustable liquid	Clean up performed and material disposed	N/A
84 S Main St / Townhall	10/3/2020; unknown	MS4	Unknown	Road freight or transport vehicle fire	Clean up performed and material disposed	N/A
I 691	10/31/2020; unknown	MS4	Unknown	Spill - Oil or other combustable liquid	Clean up performed and material disposed	N/A
286 Industrial Ave	10/8/2020; unknown	MS4	Unknown	Pool filter washout onto driveway / Pool & Water Company of CT	10/8/2020 – Phone call to business owner and Notice of Violation sent in follow-up.	N/A
400 E Johnson Ave /Whole	11/12/2020; unknown	MS4	Unknown	Road freight or transport vehicle fire	Clean up performed and material disposed	N/A
993 Mountain Rd	11/12/2020; unknown	MS4	Unknown	Spill - Gasoline or other flammable	Clean up performed and material disposed	N/A
I 84 /I 84/Ramp 26 I 84 E	11/20/2020; unknown	MS4	Unknown	Spill - Oil or other combustable liquid	Clean up performed and material disposed	N/A
Monarch Place	11/2020-12/2020; unk	MS4	Unknown	Erosion Control Failure / Breach	Instructed contractor to repair erosion control	N/A
Highland Ave & Main St/H	11/8/2020; unknown	MS4	Unknown	Spill - Gasoline or other flammable	Clean up performed and material disposed	N/A
275 Schoolhouse Rd / Bozzu	12/12/2020; unknown	MS4	Unknown	Road freight or transport vehicle fire	Clean up performed and material disposed	N/A
29 Hol Ly Rd	12/13/2020; unknown	MS4	Unknown	Spill - Gasoline or other flammable	Clean up performed and material disposed	N/A
Copper Valley Court	12/2020; unknown	MS4	Unknown	Erosion Control Failure / Breach	Instructed contractor to repair erosion control	N/A

**Note: IWRQ is the system used for tracking illicit discharges. Currently these records and files are maintained separately by three different Town or quasi-Town entities, which are queried annually for a listing of the IDDE enforcement activities. An IDDE tracking spreadsheet will be prepared to obtain these details moving forward.*

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

The Town uses a work order / complaint management software program, iWorQ. This web-based program is used to track the status of stormwater related activities. When a stormwater related work order / complaint comes in, the Public Works Department is notified and promptly addresses the issue.

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

Location and nature of structure with failing septic systems		Actions taken to respond to and address the failures	Impacted waterbody or watershed, if known
59 Brook Lane	Failed septic system	Septic system repaired in 2020	Unknown
382 Mt. Sanford	Failed septic system	Septic system repaired in 2020	Unknown
817 Wallingford Rd	Failed septic system	Septic system repaired in 2020	Unknown
35 Frances Ct	Failed septic system	Septic system repaired in 2020	Unknown
30 Guinivere Ridge	Failed septic system	Septic system repaired in 2020	Unknown
430 Mountain Rd	Failed septic system	Septic system repaired in 2020	Unknown
1086 Sperry Rd	Failed septic system	Septic system repaired in 2020	Unknown
2004 Plank Rd .	Failed septic system	Septic system repaired in 2020	Unknown
298 Timber Lane	Failed septic system	Septic system repaired in 2020	Unknown
697 Andrea Ct	Failed septic system	Septic system repaired in 2020	Unknown
70 Charter Oak	Failed septic system	Septic system repaired in 2020	Unknown
136 Mt. Sanford	Failed septic system	Septic system repaired in 2020	Unknown
796 Devonwood	Failed septic system	Septic system repaired in 2020	Unknown
15 Vanessa	Failed septic system	Septic system repaired in 2020	Unknown
35 Watch Hill	Failed septic system	Septic system repaired in 2020	Unknown
142 North Timber	Failed septic system	Septic system repaired in 2020	Unknown
706 Jarvis St	Failed septic system	Septic system repaired in 2020	Unknown
705 Rustic Lane	Failed septic system	Septic system repaired in 2020	Unknown
20 Cranberry Lane	Failed septic system	Septic system repaired in 2020	Unknown
1667 South Main St	Failed septic system	Septic system repaired in 2020	Unknown
365 S. Meriden Rd	Failed septic system	Septic system will be repaired	Unknown
62 Mountain Rd	Failed septic system	Septic system repaired in 2020	Unknown
323 Fenn Road	Failed septic system	Septic system repaired in 2020	Unknown
628 Cortland Circle	Failed septic system	Septic system repaired in 2020	Unknown
150 Birch Dr.	Failed septic system	Septic system repaired in 2020	Unknown
1276 Cheshire Street	Failed septic system	Septic system repaired in 2020	Unknown

Location and nature of structure with failing septic systems		Actions taken to respond to and address the failures	Impacted waterbody or watershed, if known
100 Cranberry Lane	Failed septic system	Septic system repaired in 2020	Unknown
90 Terrell Farms	Failed septic system	Septic system repaired in 2020	Unknown
835 Ward Lane	Failed septic system	Septic system repaired in 2020	Unknown
55 Hidden Place	Failed septic system	Septic system repaired in 2020	Unknown
440 Mt. Sanford	Failed septic system	Septic system repaired in 2020	Unknown
305 Jinny Hill	Failed septic system	Septic system repaired in 2020	Unknown
75 Carol Dr.	Failed septic system	Septic system repaired in 2020	Unknown
176 Bradford	Failed septic system	Septic system repaired in 2020	Unknown
213 Argyle	Failed septic system	Septic system repaired in 2020	Unknown
80 Merwin Circle	Failed septic system	Septic system repaired in 2020	Unknown
708 Andrea Ct	Failed septic system	Septic system repaired in 2020	Unknown
140 Charter Oak	Failed septic system	Septic system will be repaired	Unknown
180 Brook Lane	Failed septic system	Septic system repaired in 2020	Unknown
616 Windsor Ct	Failed septic system	Septic system repaired in 2020	Unknown
2 Mountaincrest	Failed septic system	Septic system repaired in 2020	Unknown
5 Mountaincrest	Failed septic system	Septic system repaired in 2020	Unknown
101 Far Horizon	Failed septic system	Septic system repaired in 2020	Unknown
20 Wolf Hill Ct.	Failed septic system	Septic system repaired in 2020	Unknown

3.7 IDDE reporting metrics

Metrics	
Estimated or actual number of MS4 outfalls	556
Estimated or actual number of interconnections	TBD
Outfall mapping complete	90%
Interconnection mapping complete	TBD
System-wide mapping complete (detailed MS4 infrastructure)	90%
Outfall assessment and priority ranking	TBD
Dry weather screening of all High and Low priority outfalls complete	291
Catchment investigations complete	2 in progress
Estimated percentage of MS4 catchment area investigated	1%

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

The Town conducts training of Public Works Department and Water Pollution Control Division (WPCD) employees on BMPs for stormwater management and spill response. No training sessions were conducted in 2020, due to the COVID-19 pandemic restrictions. In 2021, the Town will contract with a consulting firm to provide stormwater management training, including IDDE related tasks.

4. CONSTRUCTION SITE RUNOFF CONTROL (Section 6(a)(4) / page 25)

4.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed/ projected	Additional details
4-1 Implement, upgrade, and enforce land use regulations or other legal authority to meet requirements of MS4 general permit	In Progress	The Town is in the process of contracting with a consulting firm to review land use regulations for compliance with the MS4 General Permit.	Revise Land Use Regulations.	Town Planner	7/1/19	7/1/22	
4-2 Develop/ Implement plan for interdepartmental coordination in site plan review and approval	Complete/ Ongoing	Site plans are uploaded by the applicant to the building permit files through Viewpoint Cloud where they can be checked for consistency with plans approved by commissions. In 2020, ~40 P&Z / Wetland applications were reviewed.	Review and improve existing interdepartmental coordination.	Town Planner	Ongoing	7/1/17 Ongoing	
4-3 Review site plans for stormwater quality concerns	Complete/ Ongoing	Town road and drainage construction projects are presented to the Inland Wetlands and Watercourse Commission and/or Planning and Zoning Commission for review and approval prior to implementation.	Continue to improve process of site plans for stormwater quality concerns.	Town Engineer	Ongoing	7/1/17 Ongoing	The Environment Committee cancelled all scheduled meetings in 2020, due to COVID-19.
4-4 Conduct site inspections	Complete/ Ongoing	Construction site inspections are performed by P & Z Department for site plans and Public Works and Engineering for new road construction.	Continue to improve site inspections process.	Environmental Planner/ZEO	Ongoing	7/1/17 Ongoing	

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed/ projected	Additional details
4-5 Implement procedure to allow public comment on site development	Complete/ Ongoing	The Town Planning and Zoning Commission, Environment Commission, and Inland Wetlands and Watercourse Commission hold regular meetings, which are open to the public for comment on permit applications, Town events, and other related topics. Public hearings are usually held as part of the land use application process for all new and redevelopment projects.	Continue existing procedure for allowing public comment on site development.	Town Planner	Ongoing	7/1/17 Ongoing	
4-6 Implement procedure to notify developers about DEEP Construction Stormwater Permit	Complete/ Ongoing	A notice for contractors/developers to apply for the CT DEEP Construction General Permit appears on all land use applications. Additionally, copies of CT DEEP permits and instructions are available in the Public Works office.	Provide notice of need for CT DEEP's General Permit for Discharge of Stormwater and Dewatering Wastewaters from Construction Activities to developers and engineers.	Town Planner	Ongoing	2/1/18 Ongoing	
4-7 Hyperlinking "as-built" plans and record maps to a GIS index	In Progress	Road and drainage as-builts, including the two new roads, are hyperlinking in the Town's Geocortex application. Individual house as-builts have been scanned and are available to town staff, but are not yet hyperlinked.	Hyperlinking "as-built" plans and record maps to a GIS index to facilitate their retrieval	GIS Consultant	Not Specified	Ongoing	

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

- Review ordinances / regulations for compliance with MS4 General Permit and update, as needed.
- Continue to review all design plans for stormwater quality concerns.
- Continue to conduct construction inspections.
- Continue to follow all State public notice and hearing requirements and follow up on all comments and complaints received.
- Continue to provide notice of need for Construction Stormwater GP to developers and engineers.
- Continue to hyperlinking "as-built" plans and record maps to a GIS index.

5. POST-CONSTRUCTION STORMWATER MANAGEMENT (Section 6(a)(5) / page 27)

5.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed/ projected	Additional details
5-1 Establish and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning	In Progress	The Town is in the process of contracting with a consulting firm to review land use regulations for compliance with the MS4 General Permit.	Revise regulations to meet MS4 Permit post-construction stormwater management requirements.	Town Planner	7/1/21	7/1/22	
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects	Complete/ Ongoing	Construction site inspections are performed for compliance with approved applications. The P & Z Department inspects site plans and Public Works and Engineering inspect new road construction.	Prepare enforcement log.	Town Planner	7/1/19	7/1/19 Ongoing	
5-3 Identify retention and detention ponds in priority areas	Complete	The Town maintains a GIS database of detention basins and retention basins.	Prepare GIS Map Layer of retention and detention ponds in the priority area.	Town Engineer	7/1/19	7/1/19	
5-4 Implement long-term maintenance plan for stormwater basins and treatment structures	In Progress	The Town is in the process of contracting with a consulting firm to prepare a long-term maintenance plan for stormwater basins and treatment structures.	Prepare a written operations and maintenance plan for stormwater basins and treatment structures.	Town Engineer	7/1/19	7/1/21	
5-5 DCIA mapping	In Progress	The Town has contracted with a consulting firm to determine the Town's baseline DCIA.	Determine DCIA and include as a GIS Layer in the MS4 mapping.	Town Engineer	7/1/20	7/1/21	
5-6 Address post-construction issues in areas with pollutants of concern	Complete/ Ongoing	The Town documents post-construction issues in areas with pollutants of concern using IWorQ.	Use IWorQ log to document post-construction issues in areas with pollutants of concern.	Town Engineer	Not specified	Ongoing	.

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

- Review ordinances/ regulations for compliance with MS4 General Permit and update, as needed.
- Continue to enforce LID/runoff reduction requirements for development and redevelopment projects.
- Prepare a Stormwater Structures Management Plan for stormwater basins and treatment structures.
- Determine baseline DCIA for Town.

5.3 Post-Construction Stormwater Management reporting metrics

Metrics	
Baseline (2012) Directly Connected Impervious Area (DCIA)	TBD
Acres DCIA disconnected (redevelopment plus retrofits)	TBD
Retrofit projects completed	0
Percent DCIA disconnected	TBD
Estimated cost of retrofits	TBD
Detention or retention ponds identified	19 total

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

To calculate the baseline DCIA for the Town of Cheshire, the Town will be using the process found on the CT NEMO website. CT NEMO developed 5 formulas to calculate the DCIA and Impervious Cover (IC) independently for each basin in the Town using the percent DCIA for the basin with the state DCIA removed from the equation. The Town will take the formulas and create a bell curve to input the calculated percent of DCIA for each basin and calculate the total DCIA and IC amounts for the Town. Each basin value will be added together to create the baseline for the DCIA and IC for the Town.

6. POLLUTION PREVENTION/GOOD HOUSEKEEPING (Section 6(a)(6) / page 31)

6.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed/ projected	Additional details
6-1 Develop/ implement formal employee training program	Complete/ Ongoing	The Town conducts training of Public Works Department and Water Pollution Control Division (WPCD) employees on BMPs for stormwater management and spill response. In 2021, the Town will contract with a consulting firm to provide stormwater management training.	Prepare an employee training document.	Public Works Director	7/1/17	Ongoing	No training sessions were conducted in 2020, due to the COVID-19 pandemic.

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed/ projected	Additional details
6-2 Implement MS4 property and operations maintenance	In Progress	The DPW garage, parks, and Art's Place center were inspected in January 2021. The Police and Fire Stations have recently been identified as requiring SPCCs. The Town is looking to contract with a consulting firm to prepare the SPCC plans.	Evaluate Town owned vehicles and facilities for chemical storage and stormwater best management practices.	Public Works Director	7/1/18	7/1/21 Ongoing	The Town has contacted with a consulting firm to conduct inspections of Town-owned/-maintained facilities.
6-3 Implement coordination with interconnected MS4s	In Progress	Through the outfall identification process, the Town has identified several interconnections with the neighboring towns/cities.	Document progress in Annual Report	Public Works Director	Not specified	Ongoing	
6-4 Develop/ implement program to control other sources of pollutants to the MS4	In Progress	The Town has had a contract with a vendor for mitigating the geese at Mixville Park since 2019.	Document progress in Annual Report	Town Engineer	Not specified		
6-5 Evaluate additional measures for discharges to impaired waters*	In Progress	The Town has had a contract with a vendor for mitigating the geese at Mixville Park since 2019, which is impaired for bacteria.	Document progress in Annual Report	Town Engineer	Not specified		
6-6 Track projects that disconnect DCIA	In Progress	The Town has contracted with a consulting firm to create a tracking table for the Town's use DCIA.	Document progress in Annual Report	Town Engineer	Ongoing	12/31/21	
6-7 Implement infrastructure repair/rehab program	To Be Started	After the completion of outfall inspections, the Town will begin to prioritize the maintenance needed to outfalls, correct structural deficiencies, add riprap where appropriate, or remove sediment accumulations.	Document progress in Annual Report	Public Works Director	7/1/21	12/31/21	
6-8 Develop/ implement plan to identify/ prioritize retrofit projects	In Progress	Conceptual plans for South Main Street and Jocelyn Lane have been developed. In 2021, the Town will work with its consultant to identify and prioritize potential projects for the Retrofit Program to the maximum extent practicable.	Document progress in Annual Report	Public Works Director	7/1/20	12/31/21	The Town has contracted with a consulting firm to assist with developing a retrofit plan.

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed/ projected	Additional details
6-9 Implement retrofit projects to disconnect 2% of DCIA	To Be Started	In 2021, the Town will work with its consultant to identify and prioritize potential projects for the Retrofit Program to the maximum extent practicable.	Implement retrofit projects		7/1/22	7/1/22	
6-10 Develop/ implement street sweeping program	Complete/ Ongoing	The Town continued to conduct street sweeping during the spring months.	Document progress in Annual Report	Public Works Director	7/1/17	7/1/17 Ongoing	
6-11 Develop/ implement catch basin cleaning program	In Progress	802 catch basins were inspected, logged, and cleaned in 2020.	Inspect all catch basins within the priority area.	Public Works Director	7/1/20	7/1/18 Ongoing	A vac truck was purchased in 2018 for the purpose of the catch basin cleaning program. Detailed digital inspection forms are now completed on IPADs, and resulting data can be queried.
	To Be Started		Inspect all catch basins outside of the priority area.	Public Works Director	7/1/22	7/1/22	
6-12 Develop/ implement snow management practices	Complete/ Ongoing	The Town stopped sanding roads around 2006 and follows state guidelines with respect to best management practices.	Document progress in Annual Report	Public Works Director	7/1/18	7/1/17 Ongoing	
6-13 Conduct Town-wide Bulky Waste Pickup	Complete/ Ongoing	Next bulky waste pickup is scheduled for 2024.	Collect bulky waste every 5 years.	Public Works Director	Not specified	10/1/19 Ongoing	

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

- Continue to conduct annual MS4 training events.
- Continue to review MS4 property and operations maintenance practices and look for areas to optimize.
- Create a tracking spreadsheet for the disconnected DCIA.
- Begin to prioritize the maintenance needed to outfalls, correct structural deficiencies, add riprap where appropriate, or remove sediment accumulations.
- Continue efforts to identify and prioritize potential projects for the Retrofit Program to the maximum extent practicable.
- Continue street sweeping, catch basin cleaning, and snow management practices.
- Continue to contract with vendor for mitigating the geese at Mixville Park.

6.3 Pollution Prevention/ Good Housekeeping reporting metrics

Metrics	
Employee training provided for key staff	Postponed in 2020 due to COVID-19 pandemic
Street sweeping	
Curb miles swept	153 miles
Volume (or mass) of material collected	~250 cubic yards
Catch basin cleaning	
Total catch basins in priority area	TBD
Total catch basins town-	5,950
Catch basins inspected	802
Catch basins cleaned	802
Volume (or mass) of material removed from all catch basins	682 cubic yards
Volume removed from catch basins to impaired waters (if known)	Unknown
Snow management	
Type(s) of deicing material used	salt treated with magnesium and liquid deicers
Total amount of each deicing material applied	1238 tons of treated salt; 518 tons of bulk salt; 350 gallons of brine
Type(s) of deicing equipment used	Trailer brine bar spreader, plow truck sanders
Lane-miles treated (A lane-mile is a mile of roadway in a single driving lane)	153 miles
Snow disposal location	N/A
Staff training provided on application methods & equipment	Postponed in 2020 due to COVID-19 pandemic
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	N/A

6.4 Catch basin cleaning program

Provide any updates or modifications to your catch basin cleaning program

In 2017, Town crews logged and inspected approximately 1,000 catch basins, while they were being cleaned by an outside vendor. In 2018, the Town inspected 400 catch basins. Of the 400 catch basins, the Town cleaned 135 catch basins with a newly purchased vac truck. In 2019, the Town inspected, logged, and cleaned 1,090 catch basins. In 2020, the Town inspected, logged, and cleaned 802 catch basins. In total the Town has cleaned 3,292 catch basins and inspected 3,027 under the 2017 MS4 Permit. When catch basins inspections take place, detailed digital inspection forms are completed on IPADs and the resulting data can be queried. With the information logged, the Town knows the depth of each sump and at what point the catch basins will reach 50% full.

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.

The Town is contracting with a consulting firm to evaluate two possible high-value stormwater disconnection projects, which will be advanced this coming year.

The first project involves the unique opportunity to remove portions of a 650 linear foot, 36-inch diameter storm drain, located on South Main Street, that flows across Regional Water Authority property and discharges directly into an intermittent tributary of the Mill River. This project could provide for the buffering of bacteria and pollutants by providing soil and vegetation interface and low-flow recharge from the approximately 80-acre primarily residential watershed (but also drains a portion of CT Route 10). The Town has met preliminarily with the water company representatives and developed a basemap. While the water company seems receptive, the next step will be to assess the water quality currently flowing through this pipe that lies within the aquifer and in close proximity to an active wellfield to make sure that removal of the pipe will not adversely affect drinking water quality. The Town would then have to gain approval from the D.O.H.S. If this project moves forward, the Town would work with the Coalition for Sustainable Cheshire to seek a federal grant through the Clean Water Act Section 319(h) funds.

For the second project, the Town has submitted a \$75,000 capital budget request for a storm water disconnection project on Roslyn Drive that would redirect at least the first inch of runoff from an 11.3 +/- acre watershed (3 acres impervious) into a stormwater infiltration basin on Town open space, ending the direct connection into Willow Brook off Rockview Drive. If the Town receives funding in April, then project implementation will begin in 2021.

The Town also managed the construction of a 2,400 s.f. raingarden at its Byam Rd. Fire Station that disconnected 40,000 s.f of impervious area including the entire parking lot as well as part of the heavily traveled road that previous discharged directly into a watercourse. The \$28,000 stormwater disconnect project was funded by, and coordinated with UConn CLEAR utilizing grant money from the National Fish and Wildlife Foundation. An informational sign has been erected and a powerpoint presentation of the installation is posted to our website, which will serve as means of public education.

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

In 2021, the Town will continue to identify and prioritize potential projects and funding for the Retrofit Program to the maximum extent practicable.

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

In 2021, the Town will continue to identify and prioritize potential projects and funding for the Retrofit Program to the maximum extent practicable.

Part II: Impaired waters investigation and monitoring

1. Impaired waters investigation and monitoring program

1.1 Indicate which stormwater pollutant(s) of concern occur(s) in your municipality or institution.

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.

- In 2018-2019, wet weather screening activities were carried out by a summer intern. In 2020, funding for the summer intern was cut due to the COVID-19 pandemic. Wet weather screening efforts resumed at the end of 2020 with the hiring of a consultant and sampling will continue in 2021. From 2018-2019, three impaired outfalls were sampled. An additional 15 outfalls that were initial believed to be impaired outfalls were also sampled in 2018-2019. In 2020, five additional impaired outfalls were wet weather sampled. To date, 8 of 21 impaired outfalls were wet weather sampled. The Town anticipates completing the remaining impaired wet weather sampling by 7/1/2021.
- Of the eight outfalls sampled to date, six of the outfalls will require investigations based on the results of the samples collected. Due to the recent updates to the impaired waterbodies data provided by UCONN Clear, several of the outfalls previously sampled now have new required impaired parameters. These outfalls will be revisited in 2021 to sample for the new required parameters.
- Because of the limited amount of Town impaired outfalls, wet weather samples will be collected at all 21 impaired outfalls prior to selecting the six priority outfalls for annual sampling.

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

2.1 Screening data

Outfall ID	Latitude	Longitude	AA Waterbody	Sampling Date	Outfall Turbidity (NTU)	Turbidity Upstream (NTU)	Total Coliform (col/100mL)	Escherichia Coli (col/100mL)	Phosphorous (mg/L)	Lab	Investigation Required
219	41.453553	-72.900212	YES	11/30/2020	N/A	N/A	>24200	3650	N/A	Phoenix	YES
300	41.528884	-72.867685	NO	6/11/2019			N/A	7270		Phoenix	YES
378	41.459677	-72.917156	YES	11/30/2020	N/A	N/A	>24200	72	N/A	Phoenix	YES
439	41.459642	-72.901327	NO	3/2/2018	N/A	N/A	N/A	1070	N/A	Phoenix	YES
614	41.536921	-72.872007	NO	6/11/2019			N/A	14100		Phoenix	YES
662	41.549413	-72.870906	NO	11/30/2020	2.37	31.2	N/A	323		Phoenix	NO
746	41.561763	-72.878655	NO	11/30/2020	9.29	10.81	N/A	404		Phoenix	NO
840	41.549375	-72.870718	NO	11/30/2020	2.37	8.63	N/A	538		Phoenix	YES

2.2 Credit for screening data collected under 2004 permit

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

Outfall	Sample date	Parameter (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	Results	Name of Laboratory (if used)	Follow-up required?
N/A					

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
It is anticipated that this will be initiated during 2021.		

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, 2020.

Outfall	Latitude / Longitude	Sample Date	Parameter(s)	Results	Name of Laboratory (if used)
It is anticipated that this will be conducted annually, starting prior to 7/1/21.					

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
It is anticipated that this will be conducted prior to 7/1/21.		

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

Outfall ID	Latitude	Longitude	Sample Date	Temp (oC)	Conductivity (umhos/cm)	Salinity (g/kg)	Ammonia (mg/L)	MBAs (mg/L)	Chlorine (mg/L)	Escherichia Coli (col/100ml)	Lab	Investigation Required
6	41.50426707	-72.8678278	12/2/2020	8.91	115	0.08	0	0.25	0.02	75	Phoenix	NO
29	41.5224144	-72.93620839	1/21/2021	7.6	174	0.0828	0	0.5	0.11	<10	Phoenix	NO
31	41.52231121	-72.92596582	1/21/2021	4.6	124	0.0595	0	0.5	0.32	10	Phoenix	NO
33	41.52493423	-72.92628542	12/2/2020	11.7	229	0.11	0	0.25	0.05	108	Phoenix	NO
71	41.52874274	-72.90866628	1/26/2021	9.3	6703	3.609	1	0.75	0	<10	Phoenix	NO
91	41.51690291	-72.87419198	12/16/2020	8.2	361	0.176	0	0.75	0.4	51	Phoenix	NO
108	41.541147	-72.90066428	12/16/2020	8.4	433	0.31	0	1.5	0.11	<10	Phoenix	NO
111	41.51851418	-72.88105052	12/16/2020	5.3	298	0.143	0	1.5	0	10	Phoenix	NO
137	41.52580902	-72.87543904	1/26/2021	8.8	253	0.122	3	0.25	0.28	10	Phoenix	YES
149	41.5479858	-72.88179943	1/12/2021	10.6	390	0.19	0	0.25	0	<10	Phoenix	NO
211	41.51266098	-72.89212033	1/12/2021	6.3	361	0.175	0.25	0.5	0.07	15500	Phoenix	NO
237	41.53429092	-72.94621238	12/16/2020	6.64	7.3	0.05	0	0.5	0	10	Phoenix	NO
245	41.55076594	-72.95663757	12/16/2020	1.3	219	0.106	0.5	0.25	0.03	31	Phoenix	YES
259	41.54518328	-72.96064722	12/16/2021	1.8	501	222	0.25	0.25	0	<10	Phoenix	NO
276	41.5299341	-72.93203732	12/16/2020	7.43	177	0.13	0	0.75	0	<10	Phoenix	NO
287	41.51372783	-72.89098075	12/16/2020	5.4	286	0.137	0.25	0.75	0	52	Phoenix	NO
292	41.52623006	-72.87859347	1/26/2021	5.2	392	0.192	0	0.5	0.01	1480	Phoenix	NO
328	41.48867286	-72.89243411	1/12/2021	6.2	189	0.091	0.25	0.25	0.01	2780	Phoenix	NO
367	41.54338544	-72.86778966	12/16/2020	1.8	401	187	0.25	0.25	0	30	Phoenix	NO
370	41.5552428	-72.92539846	12/16/2020	1.18	252	117	0.25	0.25	0.01	20	Phoenix	NO
416	41.47766211	-72.93036891	1/21/2021	6.4	281	0.138	0.25	0.25	0.01	<10	Phoenix	NO

Outfall ID	Latitude	Longitude	Sample Date	Temp (oC)	Conductivity (umhos/cm)	Salinity (g/kg)	Ammonia (mg/L)	MBA's (mg/L)	Chlorine (mg/L)	Escherichia Coli (col/100ml)	Lab	Investigation Required
479	41.48389139	-72.9203706	1/21/2021	6.8	327	0.151	0	0.25	0	31	Phoenix	NO
525	41.49791705	-72.92718582	12/28/2020	7.4	289	0.142	0	0.25	0.03	<10	Phoenix	NO
544	41.48899982	-72.90099914	1/12/2020	5.7	262	0.13	0	0.25	0	41	Phoenix	NO
547	41.48326926	-72.87758338	1/21/2021	5	374	0.186	0	0.25	0.04	<10	Phoenix	NO
549	41.48605141	-72.88190675	12/9/2020	7.1	326	0.15	0	0.5	0.09	<10	Phoenix	NO
559	41.48805553	-72.88510945	1/12/2021	4.9	271	0.131	0.25	0.25	0.02	<10	Phoenix	NO
602	41.5343902	-72.96053623	12/2/2020	7.6	103	0.0699	0	0.75	0.07	457	Phoenix	NO
626	41.51442192	-72.88736196	12/16/2020	1.8	353	0.172	0.25	1	0.01	31	Phoenix	NO
627	41.51527825	-72.90961094	12/2/2020	10.8	331	0.16	0.25	0.25	0	85	Phoenix	NO
632	41.5181787	-72.93729949	12/2/2020	10.5	507	0.224	0	0.25	0.43	<10	Phoenix	NO
639	41.53835641	-72.93729409	12/2/2020	8.9	200	0.132	0	0.75	0.08	<10	Phoenix	NO
646	41.4838637	-72.89238177	1/26/2021	6.2	300	0.147	0	0.5	0.04	20	Phoenix	NO
653	41.52548985	-72.88921659	12/16/2020	6.1	275	0.133	0	0.25	0.06	305	Phoenix	NO
655	41.52735865	-72.87581712	12/2/2020	21.1	394	0.19	0.5	0.5	0	98	Phoenix	NO
683	41.52452635	-72.88281875	12/2/2020	10.6	457	0.213	0	0.5	0	98	Phoenix	NO
697	41.51282805	-72.91568176	12/2/2020	10.56	176	0.12	0.25	0.5	0	933	Phoenix	NO
704	41.51383011	-72.90133407	12/2/2020	12.1	375	0.182	0	0.25	0.04	288	Phoenix	NO
709	41.51034944	-72.85053762	12/2/2020	7.9	372	0.181	0	0.25	0	97	Phoenix	NO
713	41.50339076	-72.93006758	12/2/2020	8.96	60	0.04	0	0.25	0.01	146	Phoenix	NO
715	41.50515385	-72.9267303	12/2/2020	8.59	82	0.06	>3	0	0	31	Phoenix	NO
724	41.49399374	-72.91039754	12/28/2020	6.8	312	0.151	0.25	0.25	0.04	259	Phoenix	NO
725	41.49472665	-72.90847496	12/28/2020	7.8	228	0.149	0	0.25	0.01	583	Phoenix	NO
733	41.49803312	-72.88912786	12/28/2020	7.3	279	0.136	0	0.25	0.02	63	Phoenix	NO
770	41.50694463	-72.92611625	12/2/2020	11.67	276	0.19	0	0.25	0	<10	Phoenix	NO
798	41.5007667	-72.91416706	12/2/2020	8.69	187	0.13	0.25	0.25	0.06	148	Phoenix	NO
810	41.49677474	-72.93062982	12/9/2020	13.4	434	0.232	0	0.25	0.15	<10	Phoenix	NO
816	41.48606161	-72.90204573	12/9/2020	8.6	351	0.153	0.25	0.25	0.03	87	Phoenix	NO
846	41.52572157	-72.87938344	12/2/2020	8	251	0.121	0.25	0.25	0	<10	Phoenix	NO
847	41.52568183	-72.87933414	12/2/2020	7.4	195	0.0967	0.25	0.5	0.02	31	Phoenix	NO
JARV_1	41.528842	-72.908353	1/12/2021	6.4	324	0.158	0	0.25	0.18	<10	Phoenix	NO
PLAN_1E	41.526312	-72.957879	11/30/2020	11.3	692	0.339	0	0.25	0.32	10	Phoenix	NO
PLAN_1W	41.526312	-72.957879	11/30/2020	12.1	271	0.13	0	0.25	0	20	Phoenix	NO
WILL_1	41.496846	-72.891676	12/28/2020	7.1	164	0.084	0.25	0.25	0	171	Phoenix	NO

2.2 Wet weather sample and inspection data

Outfall / Interconnection ID	Latitude	Longitude	Sample date	Escherichia Coli (col/100ml)
5	41.503282	-72.867831	6/11/2019	52
111	41.518514	-72.881051	6/11/2019	189
151	41.539577	-72.878841	3/2/2018	148
295	41.528044	-72.874202	6/11/2019	317
307	41.502885	-72.927298	6/11/2019	393
308	41.502637	-72.921495	6/11/2019	2910
389	41.466631	-72.920345	6/11/2019	12000
429	41.469176	-72.930446	6/11/2019	173
528	41.498698	-72.914979	6/11/2019	1610
562	41.485744	-72.872016	3/2/2018	5170
595	41.504524	-72.888261	6/11/2019	2220
632	41.518179	-72.937299	6/11/2019	1070
754	41.547757	-72.900775	3/2/2018	404
797	41.548096	-72.881329	3/2/2018	2280
810	41.496775	-72.93063	6/11/2019	1250

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

3.1 System Vulnerability Factor Summary

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

Outfall ID	Receiving Water	System Vulnerability Factors
It is anticipated that this will be initiated during 2021.		

3.2 Key junction manhole dry weather screening and sampling data

Key Junction Manhole ID	Latitude / Longitude	Screening / Sample date	Visual/ olfactory evidence of illicit discharge	Ammonia	Chlorine	Surfactants
It is anticipated that this will be initiated during 2021.						

3.3 Wet weather investigation outfall sampling data

Outfall ID	Latitude / Longitude	Sample date	Ammonia	Chlorine	Surfactants
It is anticipated that this will be initiated during 2021.					

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

Discharge location	Source location	Discharge description	Method of discovery	Date of discovery	Date of elimination	Mitigation or enforcement action	Estimated volume of flow removed
286 Industrial Ave	Poll & Water Company of CT	Residue from the Washout of a pool filter onto driveway	Visual observation with inspecting nearby bridge	10/8/20	10/8/20	Phone call to business owner and Notice of Violation sent in follow-up	

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: Sean M. Kimball Town Manager, Cheshire	Print name: T.J. Therriault, EIT, CDT Anchor a Barton & Loguidice company
Signature / Date:  3/25/21	Signature / Date:  3/25/2021
Email: townmanager@cheshirect.org	Email: tjt@bartonandloguidice.com