



**Town of Old Saybrook, Connecticut**

**2022 Annual Report**

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

**Permit Number GSM000078**

MS4 General Permit  
 Town of Old Saybrook 2022 Annual Report  
 Permit Number GSM 000078  
 January 01, 2022 - December 31, 2022

Primary MS4 Contact: Wade M. Thomas, Nathan L. Jacobson & Associates, Inc., Stormwater Consultant, 860.526.9591, wthomas@nlja.com

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This report documents Town of Old Saybrook’s efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 01, 2022 to December 31, 2022.

Patrick Hegge replaced Gillian Carroll as Environmental Planner in June 2019.

Christina Costa, CZEO replaced Christine Nelson, AICP as Interim Town Planner in September 2020.

Patrick Hegge, Environmental Planner left in June 2021.

Lynette Wacker began as Environmental Planner in July 2021.

William Claffey began as interim Director of Public Works in November 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	Person Responsible, Department	Additional details
1-1 Implement public education	The Town of Old Saybrook website has the following resources contained in the Town Initiatives tab on the town website main page at:  <a href="http://www.oldsaybrookct.org/Pages/index/">http://www.oldsaybrookct.org/Pages/index/</a>	Town Residents	Town Website  oldsaybrookct.gov/land-use-department/pages/stormwater-management	100s	Met	Carl Fortuna, Jr., First Selectman, Board of Selectmen	Additional materials will be added

and outreach	<p>Things the Town's Doing - Stormwater Plans &amp; Reports</p> <p>2017 Stormwater Management Plan 2015, 2016, 2017, 2018 and 2019 MS4 Annual Reports Connecticut LID (Low Impact Development) Atlas Interactive Stormwater Outfall Map</p> <p>Things You Can Do - Resources</p> <p>Backyard Water Resources Guide Pet Waste, Water Quality &amp; Your Health Build a Rain Garden Use a Rain Barrel Don't Dump Anything into Catch Basins</p> <p>2022 Interactive Stormwater Outfall Map Storm Sewer Education Stormwater Solutions in Your Yard Low Impact Development Create a Streamside Buffer Is Your Lawn care Stormwater Friendly? Is Your Yard a Sponge?</p>						when developed
1-2 Address education/ outreach for pollutants of concern	<p>The Town of Old Saybrook website has the following resources contained in the Town Initiatives tab on the town website main page at:</p> <p><a href="http://www.oldsaybrookct.org/Pages/index/">http://www.oldsaybrookct.org/Pages/index/</a></p> <p>Things You Can Do - Resources</p> <p>Backyard Water Resources Guide Pet Waste, Water Quality &amp; Your Health Don't Dump Anything into Catch Basins</p> <p>2022 Storm Sewer Education Create a Streamside Buffer Is Your Lawn care Stormwater Friendly? Is Your Yard a Sponge?</p>	Town Residents	Town Website	100s	Met	Carl Fortuna, Jr., First Selectman, Board of Selectmen	Additional materials will be added when developed
1-3 WPCA Public Education and Outreach	<p>The Town of Old Saybrook website has the following resources contained in the <i>Townwide Initiatives</i> tab at the bottom of the WPCA page at:</p> <p><a href="http://www.oldsaybrookct.org/Pages/OldSaybrookCTWPCA/">http://www.oldsaybrookct.org/Pages/OldSaybrookCTWPCA/</a></p>	Town Residents	Town Website	100s	Met	Old Saybrook WPCA	Additional materials will be added

	<p>The Rain Garden: A Runoff Solution</p> <p>Lawn Reduction Suggestions Posted 09/04/14</p> <p>What is a Rain Garden? Posted 12/06/13</p> <p>Long Island Sound: Impact of Septic Systems on Environment Posted 07/12/12</p> <p>Connecticut River Named Blueway Posted July 12, 2012</p> <p>Nutrient Pollution Article - What you can do July 12, 2012</p> <p>Protect Your Groundwater Day - September 9. 2011</p> <p>Pumpout Program Update and Septic Search Program October 27, 2010</p> <p>Fall 2009 Newsletter September 10, 2009</p> <p>WWMD Referendum Passes August 12, 2009</p> <p>Wastewater management District Resolutions and Referendum Questions July 17, 2009</p> <p>April 2009 Newsletter April 29, 2009</p>						when developed
1-4 Public Education and Outreach	<p>Articles and images regarding the following were published in the Old Saybrook Events magazine:</p> <p>2016 - Quarter 4 New Stormwater Actions are in the Pipeline</p> <p>2017 - Quarter 1 Springtime Stormwater: Know Where It Goes April: Looking on the Bright Side of Rain and jpg image</p>	Town Residents	Hard Copy by Mail and at retailers	100s	Met	Christine Nelson, Town Planner, Land Use Department	Additional materials will be added when developed

<p>May: A Smart Look Forward to Summer Gardening and jpg image  June: "Running Off" To the Beach and jpg image</p> <p>2017 - Quarter 2  A Re-introduction to the Old Saybrook WPCA  Septic Tank Pumpout Program  Polluted Runoff Initiatives  Rain Gardens 101</p> <p>Free Electronics Recycling</p> <p>Summertime Stormwater: Know Where It Goes  Parades, Pet Waste and Pollution and jpg image  Give Your Water Use A Vacation, Too and jpg image  It's That (Lawn Feeding) Time of Year! Once Is Enough!  and jpg image</p> <p>2017 - Quarter 3  Leaf Pick-up in Old Saybrook</p> <p>Autumn Stormwater: Know Where It Goes  October: What Do Leaves and Storm Drains Have in  Common and jpg image  November: Don't Be A Turkey - Protect Waterways from  Stormwater Pollution and jpg image  December: Giving Gifts That Give Back and jpg image</p> <p>2017 - Quarter 4  Public Works Snow &amp; Ice Removal for Winter 2017-2018</p> <p>Winter Stormwater: Know Where It Goes  January: A Non-Toxic New Year  February: Have a Heart - Keep Pavements Clean  March: Spring Cleaning Sweeps In</p> <p>2018 - Quarter 1  WPCA Update  A Homeowner's Guide to Septic Systems, Protect Your  Septic System and More Septic System Dos and Don'ts</p> <p>2018 Quarter - 3  WPCA Update  Conservation Commission - What is Plastic?</p>					
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	<p>2018 - Quarter 4  Pet Waste, Water Quality &amp; Your Health: <i>Why You Should Give a Bark</i>  Old Saybrook Honored for Sustainable CT Certification</p> <p>2019 - Quarter 1  WPCA Update  1,100 septic system in the Wastewater Management District (WWMD) were CT Public Health Code compliant. 66 non-compliant septic systems remain to be upgraded.  Grass Clippings: Mulch, Compost &amp; Fertilizer</p> <p>2019 - Quarter 2  Ensuring Beachgoers have Safe Water Quality  WPCA Update  Postcard mailers reminding residents to pump out their septic tanks every 5 years.  Conservation Commission Plastic Film Recycling Information.</p> <p>2019 - Quarter 3  The Benefits of a Rain Garden</p>						
1-5 Public Education and Outreach	<p>The following are posted on the town website:</p> <p><b>Non-Point Source Pollution is caused by Stormwater Runoff, Impervious surface, Atmospheric Deposition, Marinas &amp; Recreational Boating, and Septic Systems.</b>  Definition by LISS [Long Island Sound Study]  Nutrient Pollution  What is Stormwater Pollution?  Residential Runoff - Pipeline Magazine Article  What can I do for my Beach?: EPA  Why is idling harmful?: CT DEEP  Septic Systems and Their Impact by LISS</p> <p><b>Residential Runoff Solutions: Suggestions for Managing Your Property and Reducing Runoff</b>  In Your Own Backyard - Soundkeeper  Turfgrass Madness  Reducing the Lawn  Asking More of the Landscape  Rain Garden Manual</p>	Town Residents	Town Website	100s	Met	Robbie Marshall, Old Saybrook WPCA Coordinator	Additional materials will be added when developed

	<b>Nitrogen &amp; Pollution Reduction Projects &amp; Studies: Ongoing Studies and Municipal Solutions</b> What is Pervious Surface? - EPA Bioswales: Designing for the Future - New Haven Nitrogen Removing Biofilters by SUNY Stony Brook CT DEEP 2nd Generation Nitrogen Study Emerging Contaminants: Yale OWTS Nitrogen Study: CT DEEP						

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

Additional Public Education and Outreach activities will be added to the town website and will be incorporated into the Old Saybrook Events magazine publication to educate residents on MS4 stormwater.

## 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	Person Responsible, Department	Date completed or projected completion date (include the start date for anything that is 'in progress')	Location Posted	Additional details
2-1 Final Stormwater Management Plan publicly available	Completed	2017 A copy of the 2017 Stormwater Management Plan (SMP) was added to The Town of Old Saybrook website as a resource contained in the <i>Town Initiatives</i> tab on the town website.	Complied with requirements	Carl Fortuna, Jr., First Selectman, Board of Selectmen	The 2017 SMP was available to the public on April 12, 2017.	<a href="http://www.oldsaybrookct.org/Pages/OldSaybrookCTLandUseDept/MS4">http://www.oldsaybrookct.org/Pages/OldSaybrookCTLandUseDept/MS4</a>	No public comments were received by the Office of the First Selectman
2-2 Comply with public notice requirements for Annual Reports (annually by 2/15)	Completed	2018 The Draft 2017 MS4 Annual Report was made available for public review and comment on the Town Initiatives tab on the town website  The Draft 2017 MS4 Annual Report was also made available for public review and comment at the Office of the First Selectman	Substantially Complied with Requirements	Carl Fortuna, Jr., First Selectman, Board of Selectmen	February 20, 2018	<a href="http://www.oldsaybrookct.org/Pages/OldSaybrookCTLandUseDept/MS4">http://www.oldsaybrookct.org/Pages/OldSaybrookCTLandUseDept/MS4</a>	No public comments were received by the Office of the First Selectman



	Completed	<p>2019 The Draft 2018 MS4 Annual Report was made available for public review and comment on the Town Initiatives tab on the town website</p> <p>The Draft 2018 MS4 Annual Report was also made available for public review and comment at the Office of the First Selectman</p>	Substantially Complied with Requirements	Carl Fortuna, Jr., First Selectman, Board of Selectmen	March 07, 2019	<a href="http://www.oldsaybrookct.org/Pages/OldSaybrookCTLandUseDept/MS4">http://www.oldsaybrookct.org/Pages/OldSaybrookCTLandUseDept/MS4</a>	No public comments were received by the Office of the First Selectman
	Completed	<p>2020 The Draft 2019 MS4 Annual Report was made available for public review and comment on the Town Initiatives tab on the town website</p> <p>The Draft 2019 MS4 Annual Report was also made available for public review and comment at the Office of the First Selectman</p>	Substantially Complied with Requirements	Carl Fortuna, Jr., First Selectman, Board of Selectmen	March 12, 2020	<a href="http://www.oldsaybrookct.org/Pages/OldSaybrookCTLandUseDept/MS4">http://www.oldsaybrookct.org/Pages/OldSaybrookCTLandUseDept/MS4</a>	No public comments were received by the Office of the First Selectman
	Completed	<p>2021 The Draft 2020 MS4 Annual Report was made available for public review and comment on the</p>	Substantially Complied with Requirements	Carl Fortuna, Jr., First Selectman, Board of Selectmen	March 09, 2021	<a href="http://www.oldsaybrookct.org/Pages/OldSaybrookCTLandUseDept/MS4">http://www.oldsaybrookct.org/Pages/OldSaybrookCTLandUseDept/MS4</a>	No public comments were received by the Wade Thomas at Nathan L.

		<p>Town Initiatives tab on the town website main page at:</p> <p>The Draft 2020 MS4 Annual Report was also made available for public review and comment at the Office of the First Selectman</p>					Jacobson & Associates, Inc.
	Completed	<p>2022 The Draft 2021 MS4 Annual Report was made available for public review and comment on the Town Initiatives tab on the town website main page at:</p> <p>The Draft 2021 MS4 Annual Report was also made available for public review and comment at the Office of the First Selectman</p>	Substantially Complied with Requirements	Lynette Wacker, Environmental Planner	March 07, 2022	<a href="http://www.oldsaybrookct.org/Pages/OldSaybrookCTLandUseDept/MS4">http://www.oldsaybrookct.org/Pages/OldSaybrookCTLandUseDept/MS4</a>	No public comments were received by the Wade Thomas at Nathan L. Jacobson & Associates, Inc.
	Completed	<p>2023 The Draft 2022 MS4 Annual Report was made available for public review and comment on the Town Initiatives tab on the town website main page at:</p>	Substantially Complied with Requirements	Lynette Wacker, Environmental Planner	February 15, 2023	<a href="http://www.oldsaybrookct.org/Pages/OldSaybrookCTLandUseDept/MS4">http://www.oldsaybrookct.org/Pages/OldSaybrookCTLandUseDept/MS4</a>	While public comments were received by Wade Thomas at Nathan L. Jacobson & Associates, Inc., no comments required

		The Draft 2022 MS4 Annual Report was also made available for public review and comment at the Office of the First Selectman					revision to the 2022 MS4 Annual Report.
2-3 Community Volunteer Clean Up	Completed	2017 - 2022 The general public participates in annual Town Beach, Town Park and Town Hall clean-ups of man-made debris. 40 cubic yard roll-off containers (dumpsters) are provided by the Department of Public Works.	Public Involvement	Larry Bonin, Director, Department of Public Works	Annually		
	Completed	2017 - 2022 The Kiwanis Club conducts an annual clean-up of the Causeway over South Cove to remove man-made debris. 40 cubic yard roll-off containers (dumpsters) are provided by the Department of Public Works.	Public Involvement	Larry Bonin, Director, Department of Public Works	Annually		
	Completed	Coastal Cleanups were held on 09/21/19, 09/26/20 and 09/25/21.	Public Involvement  Participants included Conservation Commission members, area beach associations, the	Carl Fortuna, Jr., First Selectman, Board of Selectmen	09/21/19, 09/26/20 and 09/25/21		

			Chamber of Commerce, the Old Saybrook High School Ecology Club, Girl Scouts and town residents				
	Completed	Old Saybrook Green Up Days were held on 04/27/19, 04/25/20 and 04/24/21.	Public Involvement  Participants included town residents, students, civic groups, Girl Scouts and Conservation Commission members	Carl Fortuna, Jr., First Selectman, Board of Selectmen	04/27/19, 04/25/20 and 04/24/21		
2-4 Student Participation	In Process	2019 – 2020 A Old Saybrook High School Student began work on evaluating Directly Connected Impervious Area (DCIA) disconnection on the Elementary School, Middle School and High School properties as part of the University of Connecticut Natural Resources and the Environment Conservation Ambassador Program (CAP) poster presentation.	Student Participation in DCIA Issues	Christine Nelson, AICP, Town Planner, Land Use Department.	March 2020 CCNR Conference		To be provided upon completion.
2-5 Conservation Commission		The Old Saybrook Conservation Commission Quarterly					

		<p>Newsletter, 3Q 2022 contained articles entitled Plastic in Our Lives and Plastics and Trash - What Can a Person Do?</p> <p>An handout entitled <i>Sustainable CT Watershed Health Pledge</i> was on the Conservation Commission tab and encouraged environmental stewardship in maintaining lawns and gardens and areas around the home.</p> <p>Conservation Commission Programs and Initiatives included Aquifer Protection, Low Impact Development/Green Stormwater Infrastructure, Recycling and Plastics Use Reduction, Stormwater Management and Sustainable CT</p>					
2-6 Establish stormwater committee	In progress	In process of identifying committee members	Provide forum to coordinate SWMP implementation across depts. and commissions	Christina M. Costa, CZEO and Town Planner, Land Use Department	Winter 2022		Reason for addition: Committee will represent town departments & commissions with stake in

							stormwater mgmt.

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

Hold semi-annual stormwater committee meetings to review SMP implementation progress.

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

#### 3.1 BMP Summary

<b>BMP</b>	<b>Status</b> (Complete, Ongoing, In Progress, or Not started)	<b>Activities in current reporting period</b>	<b>Measurable Goal</b>	<b>Person Responsible, Department</b>	<b>Date completed or projected completion date</b> (include the start date for anything that is 'in progress')	<b>Additional details</b>
3-1 Develop written IDDE program (Due 07/01/19)	In progress	Town is in process of completing written IDDE program using the CT IDDE program template	Develop written plan of IDDE program	Land Use Department  Nathan L. Jacobson & Associates, Inc., Town Engineer Public works/ M. Scott	Anticipate completing by December 01, 2023.	
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas (Due 07/01/20)	Complete	The list has been developed and it is anticipated that a GIS layer will be created from the data.	List Development	Land Use Department  Nathan L. Jacobson & Associates, Inc., Town Engineer	November 2022	
3-3 Implement citizen reporting program (Ongoing)	In Progress	A citizen possible illicit discharge reporting form was developed	Develop the citizen reporting form.	Land Use Department  Nathan L. Jacobson & Associates, Inc., Town Engineer	Anticipate completing by December 01, 2023	
3-4 Establish legal authority to prohibit illicit discharges (Due 07/01/19)	Complete	None Required	Adopt Stormwater Ordinance	Carl Fortuna, Jr., First Selectman, Board of Selectmen	June 26, 2012	Adopted at Special Town Meeting

3-5 Develop record keeping system for IDDE tracking (Due 07/01/17)	In Progress	None	None	Land Use Department  Nathan L. Jacobson & Associates, Inc., Town Engineer	Anticipate completing by December 01, 2023	
3-6 Address IDDE in areas with pollutants of concern	In Progress	None	None	Land Use Department  Nathan L. Jacobson & Associates, Inc., Town Engineer	Anticipate completing by December 01, 2023	
3-7 Consolidate IDDE tracking spreadsheets	Not started	None	None	Land Use Department  Nathan L. Jacobson & Associates, Inc., Town Engineer	Anticipate completing by December 01, 2023	Reason for addition: Make it easier to track all IDDE activities

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

The written IDDE Program will be developed in 2022. The written IDDE Program will be posted on the town stormwater webpage at [http://www.oldsaybrookct.org/Pages/OldSaybrookCT\\_LandUseDept/MS4](http://www.oldsaybrookct.org/Pages/OldSaybrookCT_LandUseDept/MS4).

The MS4 Annual Reports will update the written IDDE program as needed throughout the permit term.

The Office of the First Selectman will maintain master IDDE tracking spreadsheet and ensure all employees involved in IDDE program understand the logging process.

The written program will be posted to the Dept of Public Works webpage and a link listed in next year’s Annual Report; will update the written IDDE program as needed throughout the permit term.

Maintain master IDDE tracking spreadsheet and ensure all employees involved in IDDE program understand the logging process



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

<b>Location</b> (Lat long/ street crossing /address and receiving water)	<b>Date and duration of occurrence</b>	<b>Discharge to MS4 or surface water</b>	<b>Estimated volume discharged</b>	<b>Known or suspected cause / Responsible party</b>	<b>Corrective measures planned and completed</b> (include dates)	<b>Sampling data</b> (if applicable)

2017 through 2022 - No citizen reports of suspected illicit discharges were reported.

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

<b>Method used to track illicit discharge reports</b>	<b>Location and nature of structure with failing septic systems</b>	<b>Actions taken to respond to and address the failures</b>	<b>Impacted waterbody or watershed, if known</b>	<b>Person responsible, Department</b>
2011 No illicit discharges were known to have flowed to the town drainage system.	Saybrook Acres-Bid Package 1 (SA-1)  The WPCA continued mailing of quarterly postcard reminders to residents to pump out their septic tanks every five years per Ordinance #75.	Bids for provision of CT Public Health Code complying septic systems for residential structures was put out to bid and constructed	5000-02-1	Old Saybrook WPCA
2012 No illicit discharges to were known to have flowed to the town drainage system.	Saybrook Acres - Bid Package 2 (SA-2) Saybrook Acres - Bid Package 3 (SA-3) Saybrook Acres - Bid Package 4 (SA-4) Oyster River East - Bid Package 1 (OR-1) Thompson & Saybrook Point - Bid Package 1 (TH-1 & SP-1)  The WPCA continued mailing of quarterly postcard reminders to residents to pump out their	Bids for provision of CT Public Health Code complying septic systems for residential structures was put out to bid and constructed.	5000-02-1 5000-02-1 5000-02-1 5000-02-1 5000-04-1 & 4000-00-6+R50, Respectively	Old Saybrook WPCA

	septic tanks every five years per Ordinance #75			
2013 No illicit discharges were known to have flowed to the town drainage system.	Cornfield Park - Bid Package 1 (CPK-1) Cornfield Park - Bid Package 2 (CPK-2) Cornfield Park - Bid Package 3 (CPK-3) Oyster River East - Bid Package 1 (OR-2) Oyster River East - Bid Package 1 (OR-3)  The WPCA continued mailing of quarterly postcard reminders to residents to pump out their septic tanks every five years per Ordinance #75	Bids for provision of CT Public Health Code complying septic systems for residential structures was put out to bid and constructed.	5000-02-1 5000-02-1 5000-02-1 5000-02-1 5000-02-1	Old Saybrook WPCA
2014 No illicit discharges were known to have flowed to the town drainage system.  As of November 01, 2014, a total of 314 conventional Subsurface Sewage Disposal System were upgraded to be Public Health Code compliant	Fenwood - Bid Package 1 (FW-1) Fenwood - Bid Package 1 (FW-2)  The WPCA continued mailing of quarterly postcard reminders to residents to pump out their septic tanks every five years per Ordinance #75	Bids for provision of CT Public Health Code complying septic systems for residential structures was put out to bid and constructed.	4000-00-6+R50 & 5000-01-1 4000-00-6+R50 & 5000-01-1	Old Saybrook WPCA
2015 No illicit discharges were known to have flowed to the town drainage system.  200± conventional Subsurface Sewage Disposal System upgrades were scheduled in 2015.	Ingham Hill & Meadowood - Bid Package No. 1 (IH-MW-1) Maple Avenue North - Bid Package 1 (MAN-1) Maple Avenue North - Bid Package 3 (MAN-3) Maple Avenue North - Bid Package 2 (MAN-2)  The WPCA continued mailing of quarterly postcard reminders to residents to pump out their septic tanks every five years per Ordinance #75	Bids for provision of CT Public Health Code complying septic systems for residential structures was put out to bid and constructed.	5000-02-1 & 4000-00-6+R50 5000-02-1 & 4000-00-6+R50 5000-02-1 & 4000-00-6+R50	Old Saybrook WPCA

<p>2016 No illicit discharges were known to have flowed to the town drainage system.</p> <p>130± conventional Subsurface Sewage Disposal System upgrades were scheduled in 2016</p>	<p>Maple Avenue North - Bid Package 4 (MAN-4) Maple Avenue North - Bid Package 5 (MAN-5) Cornfield Point - Bid Package 1 (CPT-1)</p> <p>The WPCA continued mailing of quarterly postcard reminders to residents to pump out their septic tanks every five years per Ordinance #75</p>	<p>Bids for provision of CT Public Health Code complying septic systems for residential structures was put out to bid and constructed.</p>	<p>5000-02-1 &amp; 4000-00-6+R50 5000-02-1 &amp; 4000-00-6+R50 5000-02-1</p>	<p>Old Saybrook WPCA</p>
<p>2017 No illicit discharges were known to have flowed to the town drainage system.</p> <p>As of late 2017, a total of 950+ conventional Subsurface Sewage Disposal System were upgraded to be Public Health Code compliant.</p>	<p>Cornfield Point - Bid Package 2 (CPT-2) Cornfield Point - Bid Package 3 (CPT-3) Cornfield Point - Bid Package 4 (CPT-4) Cornfield Point - Bid Package 5 (CPT-5) Cornfield Point - Bid Package 6 (CPT-6)</p> <p>The WPCA continued mailing of quarterly postcard reminders to residents to pump out their septic tanks every five years per Ordinance #75</p>	<p>Bids for provision of CT Public Health Code complying septic systems for residential structures was put out to bid and constructed.</p>	<p>5000-02-1 5000-02-1 5000-02-1 5000-02-1</p>	<p>Old Saybrook WPCA</p>
<p>2018 No illicit discharges were known to have flowed to the town drainage system.</p> <p>As of late 2018, a total of 1,050± conventional Subsurface Sewage Disposal System were upgraded to be Public Health Code compliant.</p>	<p>Cornfield Point - Bid Package 7 (CPT-7) Cornfield Point - Bid Package 8 (CPT-8)</p> <p>The WPCA continued mailing of quarterly postcard reminders to residents to pump out their septic tanks every five years per Ordinance #75</p>	<p>Bids for provision of CT Public Health Code complying septic systems for residential structures was put out to bid and constructed.</p>	<p>5000-02-1 5000-02-1</p>	<p>Old Saybrook WPCA</p>
<p>2019 No illicit discharges were known to have flowed to the town drainage system</p>	<p>As of January 2019, a total of 1,100± conventional Subsurface Sewage Disposal System were upgraded to be Public Health Code compliant.</p>	<p>The WPCA continued mailing of quarterly postcard reminders to residents to pump out their septic tanks every five years per Ordinance #75</p>		<p>Old Saybrook WPCA</p>

<p>2020 No illicit discharges were known to have flowed to the town drainage system.</p> <p>The following subsurface sewage disposal system repairs were conducted:</p>	<p>9 Waterbury Avenue 13 Woodland Drive 16 Wild Apple 12 Old Post Road 4 Captains Lane 8 Meadow Road 14 Dogwood Lane 89 &amp; 93 Nehantic Trail 5 Rockridge Drive 881 Middlesex Turnpike 96 Nehantic Trail 469 Main Street 100 Sequassen Avenue 50 Cypress Road 42 Vincent Avenue 2 Trolley Crossing 6 London Court 13 Sunset Road 6 Arrowhead Lane 10 Woodpond 1 Anchorage Lane 27 Sunset Avenue 455 Boston Post Road 475 Main Street 84 Ayers Point Road 32 Fenbrook Road 120 Sea Lane 32 Sea Lane 5 Tudor Court East 46 Knollwood Drive 88-1 Boston Post Road 15 Beach View 57 Coulter Street 35 Sunset Avenue 5 Cedar Lane 247 Elm Street 9 Briarwood Drive 93 Old Post Road 43 Fenwood Grove Road 9 Willard Avenue Extension 33 Cromwell Place 15 Denmore Lane 10 Great Hammock Road 38 Cedarwood Lane 482 Main Street 21 Cricket Court</p>	<p>Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Septic Tank Repair Septic Tank Repair Septic Tank and Leaching System Repairs Septic Tank Repair Septic Tank Repair Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Septic Tank Repair Leaching System Repair Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Leaching System Repair Leaching System Repair Septic Tank Repair Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Leaching System Repair Septic Tank Repair Distribution-Box Repair Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Leaching System Repair Septic Tank and Leaching System Repairs Leaching System Repair Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Leaching System Repair Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Distribution-Box and Pipe Repairs Septic Tank Repair Septic Tank and Leaching System Repairs Septic Tank Repair Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs</p>		<p>Connecticut Area Health District (CRAHD)</p>
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	12 Sea Crest Road 39 Maple Avenue 26 Beaver Dam Trail 92 Ayers Point Road 1550 Boston Post Road 2 Davies Circle 87 Church Street 33 Saltaire Drive 247 Main Street 424 Main Street 40 Sea Lane 500 Main Street 4 London Court 41 Coulter Street 36 Pennywise Lane 9 Osprey Road 3 Nutmeg Circle	Septic Tank Repair Pipe Repair Septic Tank and Leaching System Repairs Septic Tank Repair Leaching System Repair Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Pipe Repair Leaching System Repair Leaching System Repair Pipe Repair Septic Tank Repair Septic Tank Repair Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs		
2021 No illicit discharges were known to have flowed to the town drainage system.  The following subsurface sewage disposal system repairs were conducted:	23 Vincent Avenue 360 Maple Avenue 3A James Court 38 Watrous Point Road 38 Seacrest Road 514 Main Street 22 Maplewood Road 55 Sheffield Street 2 Seacrest Road 10 James Court 23 River Street 16 Half Penny Lane 44 Willard Avenue 10 Fox Hill Road 13 George Drive 57 Coulter Street 4 Pelton Avenue 4 Windsor Court 64 Bokum Road 6 Howard Street 9 South View Circle 20 Fenwick Avenue 53 Ragged Rock Road 10 Dwayne Road 3 Stone Boat Road 11 Pettipaug Avenue 540 Main Street 115 College Street 226 Schoolhouse Road	Septic Tank and Leaching System Repairs Septic Tank Repairs D-Box Repairs Leaching System Repairs Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Septic Tank Repairs Leaching System Repairs D-Box Repairs Septic Tank and Leaching System Repairs Septic Tank Repairs Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Septic Tank Repairs D-Box and Outlet Pipe Repairs Septic Tank Repairs Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs	5000-01-1 4000-00-6+R50 4000-00-6+R50 4000-00-6+R49 4000-00-6+R50 4000-00-6+R50 4000-00-6+R50 4000-00-6+R50 5000-01-1 4000-00-6+R50 4000-00-6+R50 5101-01-1 4000-00-6+R50 5101-02-1-L1 4000-00-6+R50 4000-00-6+R50 4000-00-6+R50 5000-03-1 4000-00-6+R50 5101-04-1-L2 4000-00-6+R50 5000-02-1 4000-00-6+R50 4000-64-1 5101-02-1-L1 5101-02-1 5000-01-1 4000-00-6+R50 4000-00-6+R50 5101-01-1	Connecticut Area Health District (CRAHD)

7 Lords Place	Septic Tank and Leaching System Repairs	5000-02-1
9 Day Drive	Septic Tank and Leaching System Repairs	5101-03-1
15 Main Street	Pipe and Riser Repairs	4000-00-6+R50
51 Atlantic Drive	Septic Tank and Leaching System Repairs	4000-00-6+R50
229 Schoolhouse Road	WTW Disposal System	5101-03-1
8 Day Drive	WTW Disposal System	5101-03-1
35 Seacrest Road	Septic Tank and Leaching System Repairs	4000-00-6+R50
263 Schoolhouse Road	Septic Tank and Leaching System Repairs	5101-01-1
1 Cedarwood Lane	Septic Tank and Leaching System Repairs	5000-02-1
5 Patterson Place	Pipe Repairs	4000-64-1
5 Thomas Lane	Leaching System Repairs	
29 Knollwood Drive	Septic Tank Repairs	4000-00-6+R50
86 Fenwood Grove Road	Septic Tank Repairs	4000-00-6+R50
3 Christy Heights	Leaching System Repairs	5101-04-1-L1
745 Boston Post Road	Leaching System Repairs	4000-00-6+R50
5 Chelsea Lane	Leaching System Repairs	5101-01-1
351 Boston Post Road	Septic Tank and Leaching System Repairs	4000-00-6+R50
463 Main Street	Septic Tank and Pipe Repairs	4000-00-6+R50
67 Cypress Road	Septic Tank and Leaching System Repairs	4000-00-6+R50
229 Schoolhouse Road	Septic Tank Repairs	5101-03-1
15 Second Avenue	Septic Tank and Leaching System Repairs	4000-00-6+R50
263 Schoolhouse Road	Septic Tank and Leaching System Repairs	5101-01-1
129 Bokum Road	D-Box and Outlet Pipe Repairs	5101-04-1-L2
6 Pettipaug Avenue	Leaching System Repairs	5000-01-1
24 Sea Lane	Septic Tank and Leaching System Repairs	5000-01-1
11 Essex Road	Septic Tank Repairs	4000-00-6+R50
83 Maple Avenue	Septic Tank Repairs	4000-00-6+R50
28 Seacrest Road	Septic Tank and Leaching System Repairs	4000-00-6+R50
81 Obed Heights	Septic Tank Repairs	5101-04-1-L1
40 Pepperidge Trail	D-Box Repairs	5101-01-1
27 Lynde Street	Septic Tank and Leaching System Repairs	4000-00-6+R50
247 Main Street	Septic Tank and Leaching System Repairs	4000-00-6+R50
19 Birch Street	Pipe and Septic Tank Baffle Repairs	4000-00-6+R50
1 Fox Hill Road	Septic Tank Repairs	5101-02-1-L1
43 Maynard Road	Septic Tank and Leaching System Repairs	4000-00-6+R50
8 Laurel Way	Leaching System Repairs	4000-62-1
149 Ingham Hill Road	Septic Tank Repairs	5101-02-2-L2
52 Cromwell Place	Septic Tank and Leaching System Repairs	4000-00-6+R50
17 Fenwick Street	Septic Tank and Leaching System Repairs	4000-00-6+R50
115 Maple Avenue	Septic Tank and Leaching System Repairs	4000-00-6+R50
24 Beechwood Road	Septic Tank Repairs	4000-00-6+R50
5 Barnes Road	Septic Tank and Leaching System Repairs	5000-02-1
288 Main Street	Septic Tank Repairs	4000-00-6+R50
6 Fengrove Court	Septic Tank and D-Box Repairs	4000-00-6+R50
35 Seacrest Road	Septic Tank and Leaching System Repairs	4000-00-6+R50
92 Bokum Road	Septic Tank Repairs	5101-04-1-L2

	6 Church Street 118 Kitteridge Hill 39 Briarwood Drive 8 Wild Apple Lane	Septic Tank Repairs Septic Tank and Leaching System Repairs Septic Tank Repairs WTW Disposal System	4000-00-6+R50 5101-01-1 5000-02-1 5101-02-1-L1	
2022 No illicit discharges were known to have flowed to the town drainage system.  The following subsurface sewage disposal system repairs were conducted:	51 Atlantic Drive 31 Beach Road West 20 Channelside Drive 75 Old Boston Post Road 30 Maplewood Street 41 Briarwood Drive 108 College Street 256 Main Street 2 Bethel Heights 41 Cricket Court 44 South Cove Road 31 Maplewood Street 4 Half Penny Lane 16 Lords Place 140 Old Boston Post Road 102 Main Street 35 Atlantic Drive 60 Boston Post Road 17 Clubhouse Lane 320 Watrous Point Road 4 Leada Woods Road 370 Maple Avenue 75 Coulter Street 10 London Court 4 Deer Run Road 141 Mill Rock Road 117 Maple Avenue 99 Maple Avenue 64 Knollwood Drive 280 Schoolhouse Road 52 Sequassen Avenue 4 Half Penny Lane 38 Pond Road 16 Bayberry Road 121 Nehantic Trail 1 Colonial Lane 50 Chalker Beach Road 250 Middlesex Turnpike 6 Sundon Lane 8 Leada Woods Road 220 Maple Avenue 30 Sherwood Terrace	Septic Drain Line Repairs Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Leaching System Repairs Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Septic Tank Repairs Soil Pipe Repairs Septic Tank and Leaching System Repairs Leaching System Repairs Septic Tank and Leaching System Repairs Septic Tank Repairs Septic Tank Repairs Septic Pipe Repairs Septic Tank and Leaching System Repairs Septic Tank Repairs Leaching System Repairs Inlet Repairs Septic Tank Repairs Septic Tank Repairs Septic Tank Repairs Septic Tank Repairs Septic Tank Repairs Septic Tank Repairs Septic Tank Repairs Septic Tank Repairs Septic Tank Repairs Septic Tank Repairs Septic Tank Repairs Septic Tank Repairs Septic Tank Repairs Septic Tank Repairs Septic Tank Repairs Septic Tank Repairs Septic Tank Repairs Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Septic Tank Repairs Septic Tank Repairs Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Septic Pipe Repairs Septic Tank and Leaching System Repairs	4000-00-6+R50 5000-03-1 4000-00-6+R50 5000-02-1 4000-00-6+R50 5000-02-1 4000-00-6+R50 4000-00-6+R50 5101-00-2-L1 5000-02-1 4000-00-6+R50 4000-00-6+R50 5101-01-1 5000-02-1 5000-02-1 4000-00-6+R50 4000-00-6+R50 5101-01-1 5000-02-1 5000-02-1 4000-00-6+R50 4000-00-6+R50 4000-64-1 4000-00-6+R50 4000-00-6+R49 5101-02-1-L1 5000-01-1 4000-00-6+R50 5000-02-1 5101-02-1-L1 5101-00-2-R1 4000-00-6+R50 4000-00-6+R50 4000-00-6+R50 5101-01-1 4000-00-6+R50 5101-01-1 4000-00-6+R50 4000-00-6+R50 5000-03-1 5000-03-1 5000-03-1 4000-00-6+R50 5000-04-1 5101-02-1-L1 4000-00-6+R50 4000-00-6+R50	Connecticut Area Health District (CRAHD)

5 Crowley Drive 5 Rocky Point Road 16 Pelton Avenue 6 Pepperidge Trail 4 Maynard Circle 158 North Cove Road 745 Boston Post Road 6 Second Avenue 32 Tera Lane 14 Second Avenue 110 Old Boston Post Road 147 Bokum Road 2 Beamon Meadow Place 31 Old Boston Post Road 20 Hill Street 12 Rivers Ridge Road 37 Maynard Road 31 Briarwood Drive 40 Otter Cove Drive 320 Watrous Point Road	Leaching System Repairs Septic Tank and Distribution Box Repairs Septic Tank and Leaching System Repairs Soil Pipe Repairs <i>Septic Tank and Leaching System Repairs</i> Septic Tank Repairs Septic Tank and Leaching System Repairs Septic Tank Repairs Septic Tank and Leaching System Repairs Leaching System Repairs Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Inlet Pipe Repairs Septic Tank and Leaching System Repairs Septic Tank and Leaching System Repairs Inlet Line Repairs Leaching System Repairs Septic Tank and Leaching System Repairs Soil Pipe Repairs	5000-02-1 4000-00-6+R50 5000-03-1 5101-01-1 5000-02-1 4000-00-6+R50 4000-00-6+R50 4000-00-6+R50 5101-00-2-R1 4000-00-6+R50 5000-02-1 5101-04-1-L2 4000-00-6+R50 4000-00-6+R50 4000-00-6+R50 4000-64-1 4000-00-6+R50 5000-02-1 4000-00-6+R49 4000-00-6+R49	
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**3.5 Briefly describe the method and effectiveness of said method used to track illicit discharge reports.**

To be developed and implemented in late 2023.

The Town of Old Saybrook has implemented a Decentralized Wastewater Management District encompassing 15 focus areas of approximately 2,000 properties. The adoption of the WWMD Ordinance and Upgrade Standards was the result of an effort to develop the Legal Documents and a Facilities Plan, hold Public Informational Sessions, and educated town residents about the WWMD Program.

**3.6 IDDE reporting metrics**

Metrics	
Estimated or actual number of MS4 outfalls	223
Estimated or actual number of interconnections	TBD
Outfall mapping complete	95%
Interconnection mapping complete	25%
System-wide mapping complete (detailed MS4 infrastructure)	70%



Outfall assessment and priority ranking	10%
Dry weather screening of all High and Low priority outfalls	2017 through 2022 - 10% It was anticipated to conduct dry weather screening during the Fall of 2017, 2018, and 2019. However, unseasonably high precipitation precluded dry weather screening. 2023 - It is anticipated that the remaining dry weather screening of all outfalls will be completed in the late Spring and early Summer.
Catchment investigations complete	10%
Estimated percentage of MS4 catchment area investigated	10%

**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).**

The Department of Public Works will be provided with a copy of the publication entitled *Illicit Discharge Detection and Elimination Manual, A Handbook for Municipalities*, Published January 2003 by the New England Interstate Water Pollution Control Commission.

It is anticipated that an illicit discharge education presentation will be provided to DPW employees with the presentation prepared by Nathan L. Jacobson & Associates, Inc.

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

##### 4.1 BMP Summary

<b>BMP</b>	<b>Status</b> (Complete, Ongoing, In Progress, or Not started)	<b>Activities in current reporting period</b>	<b>Measurable Goal</b>	<b>Person Responsible, Department</b>	<b>Date completed or projected completion date</b> (include the start date for anything that is 'in progress')	<b>Additional details</b>
4-1 Implement, upgrade, and enforce land use regulations or other legal authority to meet requirements of MS4 general permit (Due 7/1/20)	Completed	The required elements of Minimum Control Measure No. 4 - Construction Site Runoff Control was incorporated into the town land use regulations.	Compliance	Christina M. Costa, CZEO and Town Planner, Land Use Department	July 01, 2017	
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval (Ongoing)	Ongoing	Nathan L. Jacobson & Associates, Inc., Town Engineer prepares land use review letters for most applications for the Inland Wetlands Commission, Planning Commission and Zoning Commission.	Interdepartmental Coordination	Christina M. Costa, CZEO and Town Planner, Land Use Department	July 01, 2017	
4-3 Review site plans for stormwater quality concerns (Ongoing)	Ongoing	Nathan L. Jacobson & Associates, Inc., Town Engineer encourages the use of LID and Stormwater BMPs practices as contained in the 2004 Connecticut Stormwater Quality Manual and new stormwater management technologies as they are developed.	Compliance	Christina M. Costa, CZEO and Town Planner, Land Use Department	July 01, 2017	
4-4 Conduct site inspections (Ongoing)	Ongoing	The town conducts construction site inspections for proper implementation and maintenance of soil erosion and sediment control measures.	Compliance with Approved Plans	Christina M. Costa, CZEO and Town Planner, Land Use Department	July 01, 2017	

4-5 Implement procedure to allow public comment on site development (Ongoing)	Ongoing	The land use application process allows for public comment on land use applications which are submitted to the Inland Wetlands Agency, Planning Commission, Zoning Commission during the Public Hearing Process when applicable.	Compliance	Christina M. Costa, CZEO and Town Planner, Land Use Department	July 01, 2017	
4-6 Implement procedure to notify developers about DEEP construction stormwater permit (Ongoing)	Ongoing	Since the inception of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities Nathan L. Jacobson & Associates, Inc., Town Engineer has made developer's engineers aware of the need to register for the Construction Stormwater General Permit in engineering review letters which are typically prepared as part of the land use application process.	Awareness of the need to register for the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities	Land Use Department  Nathan L. Jacobson & Associates, Inc., Town Engineer	July 01, 2017	
4-7 Develop stormwater compliance checklist	In progress	Developing checklist to provide developers on stormwater management compliance requirements	Standardize plan review	Christina M. Costa, CZEO and Town Planner, Land Use Department	July 01, 2023	Reason for addition: Make it easier to ensure compliance with stormwater regulations

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

Integrate stormwater compliance checklist into review process once completed.

## 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	Person Responsible, Department	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 07/01/22)	Complete	The land use regulations were revised to incorporate the Minimum Control Measure No. 5 - Post Construction Runoff Control.	Compliance	Christina M. Costa, CZEO and Town Planner, Land Use Department  Land Use Commissions  Land Use Attorney	Anticipate completing by July 01, 2021	It is anticipated that UConn CLEAR and/or a Regional Planning Agency will provide a Post-construction Stormwater Management template for use by all MS4 Towns.
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects (Due 07/01/22)	Complete	The town encourages the use of LID and Stormwater BMPs practices as contained in the 2004 Connecticut Stormwater Quality Manual and new stormwater management technologies as they are developed.	Compliance	Land Use Department  Nathan L. Jacobson & Associates, Inc., Town Engineer	July 01, 2017 Completed and ongoing.	The town has been very proactive with respect to encouraging developers to utilize Low Impact Development LIDs whenever practicable.
5-3 Identify retention and detention ponds in priority areas (Due 07/01/20)	Complete	Retention Ponds, Detention Ponds and Hydrodynamic Separators will be inventoried.  A GIS Map Layer will be created after the inventory.	The stormwater management basin inventory is largely completed and will be updated.	Larry Bonin, Director, Department of Public Works and Nathan L. Jacobson & Associates, Inc., Town Engineer	2020	

5-4 Implement long-term maintenance plan for stormwater basins and treatment structures (Ongoing)	To Be Developed and Implemented	After the Retention Ponds, Detention Ponds and Hydrodynamic Separators have been inventoried a Long-Term Operation and Maintenance Plan will be implemented.	Under Development	Larry Bonin, Director, Department of Public Works and Nathan L. Jacobson & Associates, Inc., Town Engineer	2020	
5-5 DCIA mapping (Due 07/01/20)	Starting	Begin the process of DCIA Mapping from base mapping prepared by UConn CLEAR.	The DCIA to MS4 stormwater outfalls discharging to waters identified as impaired in the 2016 Integrated Water Quality Report and in watersheds with a DCIA of greater than 11 percent will be completed in 2018.	Nathan L. Jacobson & Associates, Inc., Town Engineer	Prior to July 01, 2020	
5-6 Address post-construction issues in areas with pollutants of concern	To Be Addressed	Based on a review of sampling conducted from 2004 to 2016, the town will encourage utilization of new stormwater management technologies to reduce bacteria loading to the Connecticut River and LIS as they are developed.	Stormwater outfalls discharging to waters identified as impaired in the 2022 Integrated Water Quality Report will be subject to enhanced	Land Use Department  Nathan L. Jacobson & Associates, Inc., Town Engineer	To be developed and implemented as stormwater quality treatment methods for bacteria emerge.	

			water quality treatment.			

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

2023 - Procedures outlined in the Post-Construction Stormwater Management Facility Operation & Maintenance Plan Manual, implemented in 2020 will continue to be implemented.

**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)	69.75 Acres
DCIA disconnected (redevelopment plus retrofits)	2012 to 2016 - To Be Determined 2017 0.670 Acre - Road Reconstruction 0.490 Acre - Municipal Redevelopment 2018 - 1.349 Acres - Private Redevelopment 2019 through 2022 0 Acre Total - 2.509 Acres
Retrofit projects completed	2012 to 2022 - To Be Determined Total - To Be Determined
DCIA disconnected	2012 to 2016 - To Be Determined 2017 through 2022 - 0 Acre Total - 0 Acre
Estimated cost of retrofits	2012 to 2016 - To Be Determined 2017 through 2022 - \$0 Total - \$0
Detention or retention ponds identified	0 this year /0 total

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

Based on information contained in the Factsheet: *Town of Old Saybrook Water Quality and Stormwater Summary*, prepared by the CT DEEP, 2,743.16 acres of the town has an impervious area exceeding 12% which is approximately 27.34% of the town. 576.59 acres have an impervious cover of ranging from 12% to 25%, 1,070.94 acres have an impervious cover ranging from 26% to 50%, 770.86 acres have an impervious cover ranging from 51% to 75% and 324.77 acres have an impervious cover ranging from 76% to 100%.

Based on information contained in the MS4 mapping tab of Connecticut Environmental Conditions Online the impervious surface area consists of 338.67 acres of buildings, 393.58 acres of roads and 639.34 acres of other impervious surfaces for a total impervious surface area of 1,371.59 acres.

Based on 2019 revised CT ECO MS4 Mapping, the road impervious area was determined to be 161.03 acres of State roads, Conn DOT Maintenance Facility and State Boat Launch Ramp and 232.55 acres of Town roads. The state road impervious area constituted approximately 40.9% of town-wide road impervious area.

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 Conn DOT 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 Conn DOT state highway, parking lot and facility impervious road areas were then determined for each CT DEEP drainage basin.

The Conn DOT state highway, parking lot and facility impervious road areas were then deducted from the total town impervious road area to determine a town owned impervious road area for each CT DEEP drainage basin.

Subsequent to the above deduction, the total impervious area in acres and percentage was then recomputed for each CT DEEP drainage basin.

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

For impervious percentage less than 6%:

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

For an impervious area between 6% and 12 %:

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

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

For an impervious area between 12% and 18 %:

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

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

For an impervious area of greater than 18 %:

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

The DCIA for each CT DEEP drainage basin was then summed to determine the entire town DCIA.

Subsequent to completion of 2012 Baseline DCIA computations, UConn CLEAR Mapping available on Connecticut Environmental Conditions Online (CT ECO) was revised to separate road impervious area into State Road Impervious Area (Acres) and Town Road Impervious Area (Acres).

The original 2012 Baseline DCIA computations were revised utilizing the UConn CLEAR State Road Impervious Area (Acres) and Town Road Impervious Area (Acres). No major 2012 Baseline DCIA computation discrepancies were noted.

Land use files will be reviewed to determine disconnection of DCIA since July 01, 2012 for utilization in reaching the CT DEEP goal of 2% disconnection of DCIA by June 30, 2022.



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

### 6.1 BMP Summary

<b>BMP</b>	<b>Status</b> (Complete, Ongoing, In Progress, or Not started)	<b>Activities in current reporting period</b>	<b>Measurable Goal</b>	<b>Person Responsible, Department</b>	<b>Date completed or projected completion date</b> (include the start date for anything that is 'in progress')	<b>Additional details</b>
6-1 Develop and implement a formal employee training program (Ongoing)	Ongoing	DPW facility BMPs were presented to the DPW staff.	Continuing	Larry Bonin, Director, Department of Public Works	Continuing	
6-2 Implement MS4 property and operations maintenance (Ongoing)	Ongoing	2017-2022 The Park & Recreation Department continues to utilize BMPs in MS4 property operations and maintenance.  2020 All detention basins were cleared of trees and brush by the DPW.	Continuing	Larry Bonin, Director, Department of Public Works	Continuing	
6-3 Implement coordination with interconnected MS4s	Not Applicable	No interconnection coordination was required	Not Applicable	Larry Bonin, Director, Department of Public Works	Not Applicable	
6-4 Develop and implement program to control other sources of pollutants to the MS4	To Be Developed	2017 through 2022 - None	Educate the General Public on bacteria impairment of waterbodies by pet waste and waterfowl waste.	Nathan L. Jacobson & Associates, Inc., Town Engineer and Town MS4 Consultant	Calendar Year 2023	
6-5 Evaluate additional measures for discharges to impaired waters*	To Be Developed	2017 through 2022 - None	Educate the General Public on bacteria impairment of waterbodies by	Nathan L. Jacobson & Associates, Inc., Town Engineer and	Calendar Year 2023	

			pet waste and waterfowl waste.	Town MS4 Consultant		
6-6 Track projects that disconnect DCIA (Ongoing)	Ongoing	Ongoing	Review projects constructed since July 01, 2012 to determine if there was a reduction in DCIA on any of the projects.	Nathan L. Jacobson & Associates, Inc., Town Engineer and Town MS4 Consultant	Ongoing	DCIA reductions will be computed as redevelopment projects are constructed.
6-7 Implement a infrastructure repair/rehab program (Due 07/01/21)	To Be Developed	2017 through 2022 - None	Begin development of the program.	Larry Bonin, Director, Department of Public Works	Prior to July 01, 2023	
6-8 Develop and implement a plan to identify/prioritize retrofit projects (Due 07/01/20)	To Be Developed	2017 through 2022 - None	Retrofit Plan Development	Larry Bonin, Director, Department of Public Works and Nathan L. Jacobson & Associates, Inc.	Prior to July 01, 2023	
6-9 Implement retrofit projects to disconnect 2% of DCIA (Due 07/01/22)	Completed	2017 through 2022 - None	Review projects constructed since July 01, 2012 to determine if there was a reduction in DCIA on any of the projects.	Nathan L. Jacobson & Associates, Inc.	Prior to July 01, 2023	
6-10 Develop and implement a street sweeping program (Ongoing)	Ongoing	The Town of Old Saybrook currently implements a road sweeping program whereby all town roads are swept at least one time per year.	Compliance	Larry Bonin, Director, Department of Public Works	Continuing	
6-11 Develop and implement a catch basin cleaning program (Ongoing)	Ongoing	The Town of Old Saybrook currently implements a catch basin cleaning program whereby at least 75% of the catch basins are cleaned every year.	Compliance	Larry Bonin, Director, Department of Public Works	Continuing	

6-12 Develop and implement snow management practices (Due 07/01/18)	Ongoing	Continue the existing program and modify as needed.	Ongoing Review	Larry Bonin, Director, Department of Public Works	Continuing	
6-13 Map & Inventory highly erosive areas in town ROW	Not started	Collect information on eroding areas in ROW from highway maintenance personnel over course of normal operations	Identify areas contributing large volume of sediment to town waterbodies	Larry Bonin, Director, Department of Public Works	December 01, 2023	Reason for addition: Reduce sedimentation of waterways near town ROWs

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

Storm Drainage Retrofit prioritization will be given to stormwater outfalls that are known to result in soil erosion and sedimentation. Prioritization will be given to the outfalls within the impaired water drainage basins with particular emphasis placed on stormwater outfalls which are located on fine grained glacial till soils.

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

Metrics	
Employee training provided for key staff	DPW Employees are encouraged to attend classes at the CT Technology Transfer Center or Connecticut Interlocal Risk Management Agency (CIRMA). 2017 - None 2018 - American Public Works Association (APWA) Snow Plowing E Learning. 2019 - None 2020 through 2022 - No in-person training was attended due to the COVID-19 pandemic. In-person training will be pursued when it becomes available after the pandemic subsides. 2023 - In-person training will be pursued when it becomes available after the pandemic subsides.
Street sweeping	
Curb miles swept	149.88 Curb Miles (74.94 Road Miles)
Volume (or mass) of material collected	2017 - Undetermined 2018 - 450± C.Y. 2019 - 450± C.Y. 2020 - 450± C.Y. 2021 - 450± C.Y. 2022 - 450± C.Y.
Catch basin cleaning	

Total catch basins in priority areas (value will be less than or equal to total catch basins town-wide)	To Be Determined
Total catch basins town-wide	850±
Catch basins inspected	2017 - 850± 2018 - 640± 2019 - 640± 2020 - 280± (Number reduced due to COVID-19 pandemic) 2021 - 280± (Number reduced due to COVID-19 pandemic) 2022 - 280±
Catch basins cleaned	2017 - 640± 2018 - 640± 2019 - 640± 2020 - 280± (Number reduced due to COVID pandemic) 2021 - 280± (Number reduced due to COVID pandemic) 2022 - 280±
Volume (or mass) of material removed from all catch basins	2017 - Not determined. Will be estimated in 2018. 2018 - 100±C.Y. 2019 - 285±C.Y. 2020 - 50±C.Y. 2021 - 50±C.Y. 2022 - 50±C.Y.
Volume removed from catch basins to impaired waters (if known)	2017 - Not determined. Will be estimated in 2018. 2018 - 50±C.Y. 2019 - 140±C.Y. 2020 - 25±C.Y. 2021 - 25±C.Y. 2022 - 25±C.Y.
<b>Snow management</b>	
Type(s) of deicing material used	Deicing Mix Comprised of 3 Parts Sand to 1 Part Salt
Total amount of each deicing material applied	Winter 2017 to 2018 - 196± Tons NaCl Salt and 588± Tons Sand Winter 2018 to 2019 - 120± Tons NaCl Salt and 330± C.Y. Sand Winter 2019 to 2020 - 120± Tons NaCl Salt and 330± C.Y. Sand Winter 2020 to 2021 - 120± Tons NaCl Salt and 270± C.Y. Sand Winter 2021 to 2022 - 120± Tons NaCl Salt and 270± C.Y. Sand Winter 2022 to 2023 - 80± Tons NaCl Salt and 180± C.Y. Sand (Estimated)
Type(s) of deicing equipment used	9 Snow Plow/Spreaders. 4 Snow Plow/Spreaders were purchased new with Ground Speed Controlled Spreaders. The remaining 5 Snow Plow/Spreaders were retrofitted with Ground Speed Controlled Spreaders. The deicing mix is applied at a rate ranging from 150-300 pounds per lane (curb) mile depending on the storm type.
Lane-miles treated (A lane-mile is a mile of roadway in a single driving lane)	2017 through 2022 - 149.88 (74.94 Road Miles)

Snow disposal location	Along the road shoulders. In extreme snowstorms snow is removed and stockpiled at the Town Hall lawn and the old Police Department parking lot.
Staff training provided on application methods & equipment	Larry Bonin is a 2014 graduate of the CT Technology Transfer Center Connecticut Transportation Leadership Program.
Municipal turf management program actions (for permittee properties in basins with N/P impairments)	
Reduction in application of fertilizers (since start of permit)	0 Pounds
Reduction in turf area (since start of permit)	0 acres
Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems)	
Cost of mitigation actions/retrofits	\$0

#### 6.4 Catch basin cleaning program

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

It is estimated that there are approximately 850 catch basins in the Town of Old Saybrook.  
2017 - All catch basins were cleaned with a DPW Employee witnessing all catch basin structure cleaning.  
2018 and 2019 - Approximately 75% catch basins were cleaned with a DPW Employee witnessing all catch basin structure cleaning.  
2020 through 2022 - Approximately 33% catch basins were cleaned with a DPW Employee witnessing all catch basin structure cleaning.

#### 6.5 Retrofit program

**Briefly describe the Retrofit Program identification and prioritization process, the projects selected for implementation, the rationale for the selection of those projects and the total DCIA to be disconnected upon completion of each project. (Due 7/1/20)**

Storm Drainage Retrofit prioritization will be given to stormwater outfalls that are known to result in soil erosion and sedimentation. Prioritization will be given to the outfalls within the impaired water drainage basins with particular emphasis placed on stormwater outfalls which are located on fine grained glacial till soils.

Based on the 2012 Baseline DCIA of 69.75 acres, 1.40 acres of DCIA will need to be disconnected by July 01, 2022 to meet the CT DEEP goal of a 2% disconnection. The DCIA disconnection goal was met with a combination of municipal and private commercial redevelopment.

2017 - The Reconstruction of North Main Street project was completed in 2017. The project incorporated stormwater infiltration of the entire pavement area for all design storms up to and including a 25-year design storm. 0.670 Acre of DCIA was disconnected through this reconstruction.

2017 - The Main Street Connector Park construction was completed in 2018. The project consisted of demolition of the police department building and parking lot with conventional catch basin and storm drainage system and construction of a recreational park which incorporated bio-retention and stormwater infiltration. The project incorporated stormwater infiltration of the entire pavement area for up to a 10-year design storm. 0.490 Acre of DCIA was disconnected by this redevelopment.

2018 - Redevelopment of a 3.34 acre commercial property incorporated treatment of the Water Quality Volume (WQV) by new pavement stormwater infiltration in a detention basin and roof area stormwater retention via subsurface infiltration. 1.349 Acres of DCIA was disconnected by this redevelopment.

**Describe plans for continuing the Retrofit program and how to achieve a goal of 1% DCIA disconnection annually in future years. (Due 07/01/22)**

While the goal of a 2% DCIA disconnection was obtained by the end of 2018 the town will continue to work internally and with private property redevelopment to optimize the DCIA disconnection.

## 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.**

2017 through 2022 - No field investigations or stormwater sampling to impaired waters was conducted.

2023 - It is anticipated that impaired water investigations and stormwater sampling of at least half of the stormwater outfalls which discharge directly to impaired water (Connecticut River and Long Island Sound) will be completed in 2022.

**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](http://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.

<b>Outfall ID</b>	<b>Latitude &amp; Longitude</b>	<b>Sample date</b>	<b>Parameter</b> (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	<b>Results</b>	<b>Name of Laboratory (if used)</b>	<b>Follow-up required? *</b>

2017 through 2022 - No MS4 stormwater outfalls to impaired waters were screened.

2023 - It is anticipated that wet weather screening and sampling to impaired waters will be conducted.



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

<b>Pollutant of concern</b>	<b>Pollutant threshold</b>
Nitrogen	Total N > 2.5 mg/l
Phosphorus	Total P > 0.3 mg/l
Bacteria (fresh waterbody)	<ul style="list-style-type: none"> <li>• E. coli &gt; 235 col/100ml for swimming areas or 410 col/100ml for all others</li> <li>• Total Coliform &gt; 500 col/100ml</li> </ul>
Bacteria (salt waterbody)	<ul style="list-style-type: none"> <li>• Fecal Coliform &gt; 31 col/100ml for Class SA and &gt; 260 col/100ml for Class SB</li> <li>• Enterococci &gt; 104 col/100ml for swimming areas or 500 col/100 for all others</li> </ul>
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.

<b>Outfall ID</b>	<b>Status of drainage area investigation</b>	<b>Control measure to address impairment</b>

2023 - To be listed in the 2023 MS4 Annual Report if applicable.

**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 01, 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.

<b>Outfall</b>	<b>Latitude &amp; Longitude</b>	<b>Sample Date</b>	<b>Parameter(s)</b>	<b>Results</b>	<b>Name of Laboratory (if used)</b>

2023 - It is anticipated that prioritized outfall monitoring will be conducted.

### 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
5101-00-2-R1 25.11% Impervious	High Priority	1
5000-03-1 22.02% impervious	High Priority	2
5000-02-1 14.50% Impervious	High Priority	3
4000-64-1 13.03% Impervious	High Priority	4
5000-01-1 22.69% Impervious	High Priority	5
5101-00-2-LI 16.16% Impervious	High Priority	6

**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

2017 through 2021 - No dry weather screening or sampling of MS4 stormwater outfalls and interconnections were conducted.

2022 - dry weather screening was conducted for approximately 10% of the outfalls.

2023 - It is anticipated that dry weather screening of all MS4 stormwater outfalls and interconnections, and dry weather sampling will be conducted and completed. Dry weather sampling will only be conducted if there is reason to believe the discharge may contain an illicit discharge component.

## 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

2018 through 2022 - No wet weather inspections or wet weather sampling was conducted.

2023 - It is anticipated that wet weather inspections and sampling will be conducted in the late Spring and early Summer.

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

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

#### 3.1 System Vulnerability Factor Summary

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

Outfall ID	Receiving Water	System Vulnerability Factors

Where SVFs are:

1. History of SSOs, including, but not limited to, those resulting from wet weather, high water table, or fat/oil/grease blockages.
2. Sewer pump/lift stations, siphons, or known sanitary sewer restrictions where power/equipment failures or blockages could readily result in SSOs.
3. Inadequate sanitary sewer level of service (LOS) resulting in regular surcharging, customer back-ups, or frequent customer complaints.
4. Common or twin-invert manholes serving storm and sanitary sewer alignments.
5. Common trench construction serving both storm and sanitary sewer alignments.
6. Crossings of storm and sanitary sewer alignments.
7. Sanitary sewer alignments known or suspected to have been constructed with an underdrain system.
8. Sanitary sewer infrastructure defects such as leaking service laterals, cracked, broken, or offset sanitary infrastructure, directly piped connections between storm drain and sanitary sewer infrastructure, or other vulnerability factors identified through Inflow/Infiltration Analyses, Sanitary Sewer Evaluation Surveys, or other infrastructure investigations.
9. Areas formerly served by combined sewer systems.
10. Any sanitary sewer and storm drain infrastructure greater than 40 years old in medium and densely developed areas.
11. Widespread code-required septic system upgrades required at property transfers (indicative of inadequate soils, water table separation, or other physical constraints of the area rather 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

2023 - It is anticipated that key junction manholes will be screened during dry weather conditions and sampled where appropriate.

### 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

2023 - It is anticipated that wet weather investigations and wet weather sampling, where appropriate, will be conducted.

### 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

2023 - It is anticipated that catchment investigations based on wet weather sampling results will be conducted.



**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: Carl P. Fortuna, Jr., First Selectman	Print Name: Wade M. Thomas, CPMSM
Signature: 	Signature: 
Date:	Date:
April 11, 2023	April 21, 2023