Town of Hebron, Connecticut

2024 Annual Report

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

Permit Number GSM000101

MS4 General Permit
Town of Hebron 2024 Annual Report
Permit Number GSM 000101
January 01, 2024 - December 31, 2024

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

This report documents Town of Hebron's efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 01, 2024 to December 31, 2024.

Part I: Summary of Minimum Control Measure Activities

Michael O'Leary, Director of Planning and Development submitted a letter of resignation, effective June 11, 2021.

Patrick Gallagher was appointed Director of Planning and Development, effective October 1, 2021.

Patrick Gallagher, Director of Planning and Development resigned in March 2022.

Matthew Bordeaux was appointed Director of Planning and Development, effective May 1, 2022.

Kevin Kelly, Public Works Director retired, effective June 30, 2023

Paul J. Forrest was appointed Public Works Director effective July 10, 2023.

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 and outreach	2017 through 2024 - None	2025 Clean Waters Starting in Your Home and Yard Fact Sheets were prepared by a collaborative effort between the Connecticut Sea Grant Extension Program and the University of Connecticut Cooperative Extension System NEMO Program will be made available to the public on the town website.	Will be made available to the public on the town website at: http://hebronct.com/		Developing	Andrew J. Tierney, Town Manager and Nathan L. Jacobson & Associates, Inc., Town Engineer	
1-2 Address education/ outreach for pollutants of concern	None Required					Andrew J. Tierney, Town Manager	
1-3 Salmon River Watershed Partnership (SRWP) Activities	**2017** The SRWP Coordinator, Pat Young, represents the Partnership on statewide issues relating to water quality and non-point source pollution and related		https://www.salmonriverct.org	100s	Public Education and Outreach	Pat Young, SRWP Coordinator	

	information is shared with the 10 watershed towns.						
	2017 March	SRWP Annual Newsletter	https://www.salmonriverct.org	100s	Public Education and Outreach	Pat Young, SRWP Coordinator	Watershed resource protection and water quality preservation
	2017 March and ongoing Gay City State Park Vegetated Buffer Area and Biofilter and Permanent Educational Signage			90 RHAM Middle School Students	Public Education and Outreach	SRWP, UConn Master Gardeners and CT DEEP Parks	Impacts of waterfowl on water quality.
	2017 May to September HOBO stream temperature loggers were used to obtain hourly readings of temperature at 10 locations	Field sampling and analyses	https://www.salmonriverct.org The data can be accessed at: http://db.ecosheds.org/	100s	Public Education and Outreach	Pat Young, SRWP Coordinator 2 College Interns and Town land-Use Staff	Four sampling locations are located in Hebron and include: Fawn Brook at Blacks Bridge Road Fawn Brook at Conn Route 85 Jeremy River at Reidy Hill Road

							Raymond Brook at Kinney Road
	2017 June to August Field monitoring of 11 stream segment continued. Weekly samples were analyzed for temperature, pH, dissolved oxygen, conductivity, total dissolved solids and salinity.	Field sampling and analyses.	https://www.salmonriverct.org A report was also prepared and forwarded to all 10 watershed towns	100s	Public Education and Outreach	Pat Young, SRWP Coordinator 1 Summer Intern and 8 community volunteers	Two stream sampling locations are in Hebron: Raymond Brook N 41.6562 W -72.3463 Mint Brook N 41.6414 W -72.3420
	2017 October Pond Life and Water Quality		Field Trip	100s	Public Education and Outreach	Pat Young, SRWP Coordinator	Impacts of water quality on pond life.
	2018 March	SRWP Annual Newsletter	https://www.salmonriverct.org	100s	Public Education and Outreach	Pat Young, SRWP Coordinator	Watershed resource protection and water quality preservation
	2018 May to September HOBO stream temperature	Field sampling and analyses	https://www.salmonriverct.org The data can be accessed at: http://db.ecosheds.org/	100s	Public Education and Outreach	Pat Young, SRWP Coordinator 2 College Interns and	Five sampling locations are located in Hebron and include:

	loggers were used to obtain hourly readings of temperature at 10 locations					Town Land-Use Staff	Fawn Brook at Blacks Bridge Road Fawn Brook at Conn Route 85 Jeremy River at Reidy Hill Road Mint Brook at Conn. Route 207 Raymond Brook at Kinney Road
	2018 June to August Field monitoring of 11 stream segment continued. Weekly samples were analyzed for temperature, pH, dissolved oxygen, conductivity, total dissolved solids and salinity.	Field sampling and analyses.	https://www.salmonriverct.org A report was also prepared and forwarded to all 10 watershed towns	100s	Public Education and Outreach	Pat Young, SRWP Coordinator 1 Summer Intern and 8 community volunteers	Two stream sampling locations are in Hebron: Raymond Brook N 41.6562 W -72.3463 Mint Brook N 41.6414 W -72.3420

	2018 Gay City State Park Vegetated Buffer Area and Biofilter 296 native shrubs and perennials were planted to further deter Canada Geese from the pond and temporary signage explaining the plants were installed.		https://www.salmonriverct.org	100s	Public Education and Outreach	SRWP, UConn Master Gardeners and CT DEEP Parks	Impacts of waterfowl on water quality.
	2018 August Hebron Day Celebration Public Event		In Person A booth was set up to display SRWP activities and a sign-up for volunteer water quality monitoring to focus on the impact of water quality on macroinvertebrates and water quality preservation.	100s	Public Education and Outreach	Pat Young, SRWP Coordinator	A brochure was also available to participants which included steps landowners can take to protect water quality.
	2019 March	SRWP Annual Newsletter	https://www.salmonriverct.org	100s	Public Education and Outreach	Pat Young, SRWP Coordinator	Watershed resource protection and water quality preservation

	2019 March Hebron Maple Fest		In Person A booth was set up to display SRWP activities and a sign-up for volunteer water quality monitoring to focus on the impact of water quality on macroinvertebrates and water quality preservation.	100s	Public Education and Outreach		
	2019 May to September HOBO stream temperature loggers were used to obtain hourly readings of temperature at 10 locations.	Field sampling and analyses	https://www.salmonriverct.org The data can be accessed at: http://db.ecosheds.org/	100s	Public Education and Outreach	Pat Young, SRWP Coordinator 2 College Interns and Town Land-Use Staff	One sampling location was located in Hebron: Jeremy River at Chestnut Hill Road
	2019 June to August Field monitoring of 11 stream segment continued. Weekly samples were analyzed for temperature, pH, dissolved oxygen, conductivity, total dissolved solids and salinity.	Field sampling and analyses.	https://www.salmonriverct.org A report was also prepared and forwarded to all 10 watershed towns	100s	Public Education and Outreach	Pat Young, SRWP Coordinator 1 Summer Intern and 8 community volunteers	Two stream sampling locations are in Hebron: Raymond Brook N 41.6562 W -72.3463 Mint Brook N 41.6414 W -72.3420

	2019 March - August Gay City State Park Vegetated Buffer Area and Biofilter 150 native shrubs and perennials were planted to further deter Canada Geese from the pond. Temporary signage explaining the plants that were planted was also installed.			100s	Public Education and Outreach	SRWP, UConn Master Gardeners and CT DEEP Parks	Impacts of waterfowl on water quality.
	2019 August Hebron Day Celebration Public Event		In Person A booth was set up to display SRWP activities and a sign-up for volunteer water quality monitoring to focus on the impact of water quality on macroinvertebrates and water quality preservation.	100s	Public Education and Outreach	Pat Young, SRWP Coordinator	A brochure was also available to participants which included steps landowners can take to protect water quality.

	2020 March	SRWP Annual Newsletter	https://www.salmonriverct.org	100s	Public Education and Outreach	Pat Young, SRWP Coordinator	Watershed resource protection and water quality preservation.
	2020 May to September HOBO stream temperature loggers were used to obtain hourly readings of temperature at 10 locations.	Field sampling and analyses	https://www.salmonriverct.org The data can be accessed at: http://db.ecosheds.org/	100s	Public Education and Outreach	Pat Young, SRWP Coordinator 2 College Interns and Town Land-Use Staff	One sampling location was located in Hebron: Jeremy River at Grayville Road
	2020 June to August Field monitoring of 11 stream segment continued. Weekly samples were analyzed for temperature, pH, dissolved oxygen, conductivity, total dissolved solids and salinity.	Field sampling and analyses.	https://www.salmonriverct.org A report was also prepared and forwarded to all 10 watershed towns.	100s	Public Education and Outreach	Pat Young, SRWP Coordinator 1 Summer Intern and 8 community volunteers	Two stream sampling locations are in Hebron: Raymond Brook N 41.6562 W -72.3463 Mint Brook N 41.6414 W -72.3420

	2020 August Hebron Day Celebration Public Event		In Person A booth was set up to display SRWP activities and a sign-up for volunteer water quality monitoring to focus on the impact of water quality on macroinvertebrates and water quality preservation.	100s	Public Education and Outreach	Pat Young, SRWP Coordinator	A brochure was also available to participants which included steps landowners can take to protect water quality.
	2021 March SRWP Annual Newsletter	SRWP Annual Newsletter	https://www.salmonriverct.org	100s	Public Education and Outreach	Pat Young, SRWP Coordinator	Watershed resource protection and water quality preservation.
	2021 May to September HOBO stream temperature loggers were used to obtain hourly readings of temperature at 10 locations.	Field sampling and analyses	https://www.salmonriverct.org The data can be accessed at: http://db.ecosheds.org/	100s	Public Education and Outreach	Pat Young, SRWP Coordinator 2 College Interns and Town Land-Use Staff	
	2021 June to August Field monitoring of 11 stream segment continued. Weekly	Field sampling and analyses.	https://www.salmonriverct.org A report was also prepared and forwarded to all 10 watershed towns	100s	Public Education and Outreach	Pat Young, SRWP Coordinator 1 Summer Intern and 8 community volunteers	Two stream sampling locations are in Hebron: Raymond Brook N 41.6562 W -72.3463

	samples were analyzed for temperature, pH, dissolved oxygen, conductivity, total dissolved solids and salinity.						Mint Brook N 41.6414 W -72.3420
	2021 August Hebron Day Celebration Public Event		In Person A booth was set up to display SRWP activities and a sign-up for volunteer water quality monitoring to focus on the impact of water quality on macroinvertebrates and water quality preservation.	100s	Public Education and Outreach	Pat Young, SRWP Coordinator	A brochure was also available to participants which included steps landowners can take to protect water quality.
	2021 November Pond Life and Water Quality		Field Trip	80 RHAM 7th and 8th Graders	Public Education and Outreach	Pat Young, SRWP Coordinator	Impacts of water quality on pond life.
	2022 March	SRWP Annual Newsletter	https://www.salmonriverct.org	100s	Public Education and Outreach	Pat Young, SRWP Coordinator	Watershed resource protection and water quality preservation.
	2022 March Hebron Maple Fest		In Person A booth was set up to display SRWP activities and a sign-up for volunteer water quality monitoring to focus on the impact of water	100s	Public Education and Outreach		

			quality on macroinvertebrates and water quality preservation.				
	2022 May to September HOBO stream temperature loggers were used to obtain hourly readings of temperature at 10 locations throughout the watershed.	Field sampling and analyses	https://www.salmonriverct.org The data can be accessed at: http://db.ecosheds.org/	100s	Public Education and Outreach	Pat Young, SRWP Coordinator 2 College Interns and Town Land-Use Staff	
	2022 June Hebron Day Celebration Public Event		In Person A booth was set up to display SRWP activities and a sign-up for volunteer water quality monitoring to focus on the impact of water quality on macroinvertebrates and water quality preservation.	100s	Public Education and Outreach	Pat Young, SRWP Coordinator	A brochure was also available to participants which included steps landowners can take to protect water quality.
	2022 June to August Field monitoring of 11 stream segment continued. Weekly	Field sampling and analyses.	https://www.salmonriverct.org A report was also prepared and forwarded to all 10 watershed towns	100s	Public Education and Outreach	Pat Young, SRWP Coordinator 8 community volunteers	Two stream sampling locations are in Hebron: Raymond Brook N 41.6562 W -72.3463

	samples were analyzed for temperature, pH, dissolved oxygen, conductivity, total dissolved solids and salinity.						Mint Brook N 41.6414 W -72.3420
	2022 October RHAM High School Stream Assessment Blackledge River and Fawn Brook.	Classroom and Field program following CT DEEP protocol for benthic macroinvertebrate assessments		20 RHAM Students in UConn Environmental Science Class and Teachers	Public Education and Outreach	Pat Young, SRWP Coordinator	
	2023 March	SRWP Annual Newsletter	https://www.salmonriverct.org	100s	Public Education and Outreach	Pat Young, SRWP Coordinator	Watershed resource protection and water quality preservation.
	2023 March Hebron Maple Fest		In Person A booth was set up to display SRWP activities and a sign-up for volunteer water quality monitoring to focus on the impact of water quality on macroinvertebrates and water quality preservation.	100s	Public Education and Outreach	Pat Young, SRWP Coordinator	
	2023 March Water Quality Monitoring Report		Release of report summarizing summer baseline stream monitoring with volunteers, board members, town official and the general public.	100s	Public Education and Outreach	Pat Young, SRWP Coordinator	

	2023 May to September HOBO stream temperature loggers were used to obtain hourly readings of temperature at 10 locations throughout the watershed.	Field sampling and analyses	https://www.salmonriverct.org The data can be accessed at: http://db.ecosheds.org/	100s	Public Education and Outreach	Pat Young, SRWP Coordinator 2 College Interns and Town Land-Use Staff	
	2023 June to August Field monitoring of 11 stream segment continued. Weekly samples were analyzed for temperature, pH, dissolved oxygen, conductivity, total dissolved solids and salinity.	Field sampling and analyses.	https://www.salmonriverct.org A summary report was also prepared and forwarded to all 10 watershed towns	100s	Public Education and Outreach	Pat Young, SRWP Coordinator 1 Summer Intern and 8 community volunteers	Two stream sampling locations are in Hebron: Raymond Brook N 41.6562 W -72.3463 Mint Brook N 41.6414 W -72.3420
	2023 June to August		Website includes results of stream monitoring, SRWP Meeting Minutes, partnership activities and resources	100s	Public Education and Outreach	Pat Young, SRWP Coordinator	

	Revamping of Salmon River Watershed Partnership website.		for home, animal and business owners to protect water resources				
	2023 September to November Field Stream Assessment with Community Volunteers.	Classroom and Field program following CT DEEP protocol for benthic macroinvertebrate assessments		15 Community Volunteers	Public Education and Outreach	Pat Young, SRWP Coordinator	
	2023 October RHAM High School Stream Assessment Blackledge River and Fawn Brook	Classroom and Gay City State Park. Four separate programs were conducted which included benthic macroinvertebrate identification, discussion of impact of pollution on pond ecology, importance of vegetated buffers and features of a watershed.		85 RHAM Students and Teachers	Public Education and Outreach	Pat Young, SRWP Watershed Coordinator	
	2023 December	Meeting with Town Leaders.	SRWP hosted watershed town leaders to review highlights of the 5-year visioning plan and discuss SRWP contributions to the watershed including outreach on water quality concerns, and review continued collaboration and support from the watershed towns.	15 Town Leaders and Staff	Public Education and Outreach	Pat Young, Watershed Coordinator	
	2023 Year-Around		SRWP Outreach on Facebook https://www.facebook.com/10towns SRWP Outreach on Instagram www.instagram.com/salmonriverct SRWP Outreach on Website www.salmonriverct.org		Public Education and Outreach	Pat Young, Watershed Coordinator	

	2024 February		Webinar presentation to Connecticut Society of Engineers at the request of the society to present the watershed management activities in the Salmon River Watershed and the Eightmile River Watershed.	30+ Society Members	Public Education and Outreach	Pat Young, Watershed Coordinator	
	2024 March Water Quality Monitoring Report		Release of report summarizing 2023 summer baseline stream monitoring with volunteers/board members, town officials, volunteers and general public	100s of members of the General Public	Public Education and Outreach	Pat Young, SRWP Coordinator	
	2024 March	Spring Fling with Friends of Sunrise and Machimoodus State Parks	Booth set up with display on SRWP activities and live "touch" tank with Macroinvertebrate to discuss lifecycle impacts from stream pollution and a display showing all water quality monitoring sites and a take home brochure including steps landowners can take to protect water quality.	100s of members of the General Public	Public Education and Outreach	Pat Young, SRWP Coordinator	Watershed resource protection and water quality preservation
	2024 March	SRWP Annual Newsletter	Covers a variety of SRWP activities and new items related to protecting watershed resources and preserving water quality. The 2024 edition included articles on the importance of floodplains and associated management, and aquatic ecosystems and land preservation in the watershed as a means to protect surface water quality and habitats.	100s of members of the General Public	Public Education and Outreach	Pat Young, SRWP Coordinator	Watershed resource protection and water quality preservation
	2024 May to September HOBO stream temperature	Field sampling and analyses Data was retrieved and downloaded in October and November 2024	https://www.salmonriverct.org	100s of members of the General Public	Public Education and Outreach	Pat Young, SRWP Coordinator 5 Volunteers, Board Members and	

	loggers were used to obtain hourly readings of temperature at 10 locations throughout the watershed.					Town Land Use Staff	
	2024 May	Presentation on Aquatic Invasive Species	Co-host a presentation on aquatic invasive species with the Connecticut Office of Aquatic Invasive Plants.	20 members of the General Public	Public Education and Outreach	Pat Young, SRWP Coordinator	
	2024 June to August Field monitoring of 11 stream segment continued. Weekly samples were analyzed for temperature, pH, dissolved oxygen, conductivity, total dissolved solids and salinity.	Field sampling and analyses. Second year monitoring from previous routes that were monitored from 2013 to 2017 after a five year gap. The two routes included 11 stream sites throughout the watershed to establish baseline data and track future changes. Volunteers were trained on hand-held monitoring equipment and took weekly samples for temperature, pH, dissolved oxygen, conductivity, total dissolved solids and salinity. A summary report will be prepared and forwarded to all ten watershed towns.	The data can be accessed at: https://www.salmonriverct.org	100s of members of the General Public	Public Education and Outreach	Pat Young, SRWP Coordinator 10 Community Volunteers	
	2024 June	Hebron Day	Booth set up with display on SRWP activities showing all water quality monitoring sites and results, information on the importance of land preservation for protecting	100s of members of the General Public	Public Education and Outreach	Pat Young, SRWP Coordinator	

			water quality and a take home brochure including steps landowners can take to protect water quality.				
	2024 July	SRWP Watershed Tour	Final leg of a four leg watershed tour for SRWP board members and guests focusing on the Salmon River Cove. The tour included a paddle on the Salmon River Cove to discuss water quality impacts, invasive species and future management activities.	15 SRWP Board Members and Guests	Public Education and Outreach	Pat Young, SRWP Coordinator	
	2024 September to November	Field Stream Assessment with Community Volunteers	Classroom and outdoor field training presentation and eight Stream Macroinvertebrate Assessments conducted in 2024. Volunteers collected and identified benthic macroinvertebrate as part of CT DEEP protocol for conducting stream assessments to establish if stream segments are meeting state water quality goals for aquatic life support.	24 Community Volunteers	Public Education and Outreach	Pat Young, SRWP Coordinator	
	2024 October	RHAM High School Stream Assessment Blackledge River and Fawn Brook in Marlborough	Classroom and field program following CT DEEP protocol for benthic macroinvertebrate assessments. Field portions also included potential impacts to streams, road crossing design and general river terms.	15 RHAM Students in UConn Environmental Science Class and Teachers	Public Education and Outreach	Pat Young, SRWP Watershed Coordinator	
	2024 October	Coventry High School Stream Assessment at Raymond Brook in Hebron	Field assessment program which included discussions on land use impects to stream, importance of floodplains and drought conditions.	35 UConn Environmental Science Students and Coventry AP Biology Class Students and Teachers	Public Education and Outreach	Pat Young, Watershed Coordinator	

	2024 November	Meeting with Town Officials and National Park Service	Meeting to discuss next steps of SRWP and a question and answer session with the NPS on Wild & Scenic Designation and a potential request for a reconnaissance survey of town leaders, board members and NPS representatives.	15 Town Leaders, Board Members and National Park Service Representatives	Public Education and Outreach	Pat Young, Watershed Coordinator	
	2024 December	Presentation by U.S. Army Corps of Engineers	SRWP was requested to host a presentation and provide input on potential treatment of Salmon Cove for Hydrilla.	10 Town Leaders and Stakeholders	Public Education and Outreach	Pat Young, Watershed Coordinator	
	2024 - Year-Around	Launching and Field Checking HOBO Stream Conductivity Loggers A partnership project between GZA, Inc. Green Team and SRWP. SRWP currently manages eight conductivity loggers and sites are selected for monitoring after consultation with the towns and various state departments for any areas of concern.	Stream conductivity data is shared with CT DEEP Fisheries and Water Quality staff, USGS staff, GZA staff and SRWP staff		Public Education and Outreach	Pat Young, Watershed Coordinator	
	2024 - Year-Around	SRWP Outreach on Facebook https://www.facebook.com/10towns SRWP Outreach on Instagram www.instagram.com/salmonriverct SRWP Outreach on Website www.salmonriverct.org The SRWP is funded primarily through seven of the ten watershed towns. The SRWP Coordinator represents the partnership on statewide issues related to water quality and non-point source pollution. Information is shared with the ten watershed towns for their dispersal and use.	Social Media Outreach		Public Education and Outreach	Pat Young, Watershed Coordinator	

		The SRWP Coordinator also comments on town activities, regulations or planning projects specific to water quality and stormwater when requested.					

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

2007 - 2024 The Salmon River Watershed Partnership (SRWP) was formed in 2007 and has been conducting public education and outreach activities since then.

2025 - It is anticipated that public education and outreach activities will continue to be conducted throughout the year.

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	Complete	2017 A hard copy of the Draft 2017 Stormwater Management Plan (SMP) was made available to the public for review and comment on the town website.	Complied with Requirements	Andrew J. Tierney, Town Manager and Nathan L. Jacobson & Associates, Inc., Town Engineer	April 20, 2017.	http://hebronct.com/	No public comments were received by the Office of the Town Manager
2-2 Comply with public notice requirements for Annual Reports (Annually by 02/15)	Complete	2018 The Draft 2017 MS4 Annual Report was available to the public for review and comment on the town website.	Complied with Requirements	Andrew J. Tierney, Town Manager	February 23, 2018	http://hebronct.com/	No public comments were received by the Office of the Town Manager
	Complete	2019 The Draft 2018 MS4 Annual Report was available to the public for review and comment on the town website.	Complied with Requirements	Andrew J. Tierney, Town Manager	February 22, 2019	http://hebronct.com/	No public comments were received by the Office of the Town Manager
	Complete	2020 The Draft 2019 MS4 Annual	Complied with Requirements	Andrew J. Tierney, Town Manager	April 23, 2020	http://hebronct.com/	No public comments were received by the Office of

		Report was available to the public for review and comment on the town website.					the Town Manager.
	Complete	2021 The Draft 2020 MS4 Annual Report was made available to the public for review and comment on the town website.	Complied with Requirements	Andrew J. Tierney, Town Manager	March 02, 2021	http://hebronct.com/	No public comments were received
	Complete	2022 The Draft 2021 MS4 Annual Report was made available to the public for review and comment on the town website.	Complied with Requirements	Andrew J. Tierney, Town Manager	April 28, 2022	http://hebronct.com/	No public comments were received
	Complete	2023 The Draft 2022 MS4 Annual Report was made available to the public for review and comment on the town website.	Complied with Requirements	Andrew J. Tierney, Town Manager	February 23, 2023	http://hebronct.com/	One town resident forwarded comments and revisions and/or clarifications were made to the annual report where appropriate.
	Complete	2024 The Draft 2023 MS4 Annual Report was made available to the public for review and comment on the town website.	Complied with Requirements	Andrew J. Tierney, Town Manager	May 14, 2024	http://hebronct.com/	No public comments were received
	Complete	2025	Complied with Requirements	Andrew J. Tierney, Town Manager	March 11, 2025	http://hebronct.com/	No public comments were received

		The Draft 2024 MS4 Annual Report was made available for public review and comment on the town website.					
2-3 Gay City State Park Biofilter Project	Complete	2017 The biofilter and vegetated buffer areas were designed and constructed to restore vegetated buffer areas as a biofilter and aid in deterring Canada geese and filtering direct stormwater runoff to the waterbody. The project was a partnership between UConn Master Gardener and CT DEEP Parks. 2018 Planting of an additional 296 native shrubs and perennials 2019 Planting of an additional 150 native shrubs and perennials.		CT DEEP Parks and UConn Master Gardeners	Ongoing		

2-4 Town Planners Workshop	Complete	2017 May Town Planners Workshop with town land use staff to review upcoming large projects to incorporate stormwater quality measures.		SRWP	May 2017		
2-5 Water Quality Monitoring	Ongoing	2017 through 2024 2017 3 College student interns, 2 community volunteers and town land use staff participated in water temperature readings on the Upper Jeremy Brook and Raymond Brook stations. 2018 3 College student interns, 2 community volunteers participated in water temperature readings on the Upper Jeremy Brook and		Pat Young, SRWP Coordinator	Ongoing	https://www.salmonriverct.org	

		Raymond Brook stations. 2019 2 College student interns in partnership with town land use staff participated in water temperature readings on the Mint Brook and Raymond Brook stations 2020 2 College student interns in partnership with town land use staff participated in water temperature readings on the Mint Brook and Raymond Brook stations 2021 2 College student interns in partnership with town land use staff participated in water temperature readings on the Mint Brook and Raymond Brook stations					

		2022 2 College student interns in partnership with town land use staff participated in water temperature readings on the Mint Brook and Raymond Brook stations					
2-6 Education Program	Continuing	2017 October Pond Life and Water Quality. Presentation and field netting, identification and discussion on impacts of water quality on pond life.		Pat Young, SRWP Coordinator	Ongoing	https://www.salmonriverct.org	90 RHAM Middle School Students, Teachers and Parents 15 Marlborough Boy Scouts
		2019 October Pond Life and Water Quality. Presentation and field netting, identification and discussion on impacts of water quality on pond life.	Field Trip	Pat Young, SRWP Coordinator	Ongoing		80 RHAM Middle School Students
	Continuing	2018 August Hebron Day Celebration	Booth	Pat Young, SRWP Coordinator	Ongoing		100+ area residents

		2019 August Hebron Day Celebration	Booth	Pat Young, SRWP Coordinator	Ongoing		
		2021 August Hebron Day Celebration	Booth	Pat Young, SRWP Coordinator	Ongoing		
		2022 June Hebron Day Celebration	Booth	Pat Young, SRWP Coordinator	Ongoing		
	Complete	2022 October Watershed Tour with Board Members and Town Officials	Watershed tour to discuss various projects in the watershed to engage board members and town officials.	Pat Young, SRWP Coordinator	October 2022		
2-7 SRWP Outreach	Complete	2017 - 2024 **SRWP** Outreach **Facebook** Outreach **Instagram** Outreach	Summary of watershed monitoring efforts	Pat Young, SRWP Coordinator	Ongoing	https://www.salmonriverct.org https://www.facebook.com/10towns https://www.instagram.com/salmonriverct	
2-8 Consider establishment of a stormwater committee	In Progress	Begin process of identifying committee	Provide a forum to coordinate SWMP implementation		Calendar Year 2024		

		members if implemented.					

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

The Salmon River Watershed Partnership was formed in 2007 and has been conducting public outreach and participation activities which is anticipated to continue through 2025.

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

3.1 BMP Summary

BMP	**Status** (Complete, Ongoing, In Progress, or Not started)	**Activities in Current Reporting Period**	**Measurable Goal**	**Person Responsible, Department**	**Date Completed or Projected Completion Date** (include the start date for anything that is 'in progress')	**Additional Details**
3-1 Develop written IDDE program (Due 07/01/19)	In Progress	A written IDDE program using the IDDE program template available from the CT DEEP is being developed.	Develop written plan of IDDE program	Andrew J. Tierney, Town Manager and Nathan L. Jacobson & Associates, Inc., Town Engineer	Anticipate completing by November 01, 2025.	The Department of Public Works will be the listed contact.
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas (Due 7/1/20)	Completed	MS4 stormwater outfall mapping was conducted in 2007. The stormwater outfall mapping was compiled on a ESRI GIS layer. The MS4 stormwater outfall mapping will be updated to include impaired waters as contained in the State of Connecticut, Department of Energy and Environmental Protection 2016 Integrated Water Quality Report if applicable. The stormwater outfalls in the impaired waters will be identified.	Development of an ESRI GIS map layer with MS4 stormwater outfalls.	Andrew J. Tierney, Town Manager and Nathan L. Jacobson & Associates, Inc., Town Engineer	Prior to July 01, 2019	
3-3 Implement citizen reporting program (Ongoing)	In Progress	A program to allow the general public to report suspected illicit discharges is in the process of being set up.	Under Development	Kevin J. Kelly, Director, Department of Public Works	Anticipate completing by November 01, 2025.	The Department of Public Works will be the listed contact.

3-4 Establish legal authority to prohibit illicit discharges (Due 07/01/19)	In Place	An Illicit Discharge Detection and Elimination Ordinance and Citation Hearing Procedure was enacted at a Town Meeting on May 03, 2007.	Completed	Andrew J. Tierney, Town Manager	May 03, 2007	
3-5 Develop record keeping system for IDDE tracking (Due 07/01/17)	In Place	Information regarding IDDE is included in the DPW road files	Completed	Kevin J. Kelly, Director, Department of Public Works	July 01, 2019.	
3-6 Address IDDE in areas with pollutants of concern	Not Applicable There are no Impaired Waters in Hebron other than Gay City State Park.	None Required	Not Applicable	Not Required	Not Applicable	Not Applicable

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

The written IDDE Program will be developed and posted on the town website and a link listed in each Annual Report. The town will update the written IDDE program as needed throughout the permit term.

The Department of Public Works will maintain the 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.

Location (Lat long/ street crossing /address and receiving water)	**Date and duration of occurrence**	**Discharge to MS4 or surface water**	**Estimated volume discharged**	**Known or suspected cause / Responsible party**	**Corrective measures planned and completed** (include dates)	**Sampling data** (if applicable)
	2017 through 2024				Not Applicable - No Illicit Discharges Reported	

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

Method used to track illicit discharge reports	**Location and nature of structure with failing septic systems**	**Actions taken to respond to and address the failures**	**Impacted waterbody or watershed, if known**	**Dept. / Person responsible**
2017 Citizen illicit discharge reporting system was not in place. No illicit discharges were reported.	20 Repairs 34 Joel Drive 28 Cannon Drive 30 Cone Road 9 Hickory Drive 93 Jan Drive 485 Wall Street 931 Church Street 43 West Main Street 127 Country Lane 145 Senate Brook Drive 60 Brighton Road 233 Old Colchester Road 16 Jan Drive 33 East Street 121 London Road 45 Slocum Road 16 Settlement Road 126 Grayville Road 410 Old Colchester Road 67 Old Colchester Road	 Repair	 4706-01-1-L1 4705-00-1 3108-08-1-L1 3107-00-1 3107-00-1 4705-00-1-L1 4702-01-1 4705-00-1 4705-00-1 4705-00-3-R1 3107-00-1 4701-00-2-R4 3107-00-1 4706-00-1 3107-00-1 4706-00-1 4705-00-1 4701-00-2-R4 4701-00-2-R4 4705-00-1	

2018 Citizen illicit discharge reporting system was not in place. No illicit discharges were reported.	27 Repairs 233 Martin Road 250 Hope Valley Road 13 Basket Shop Road 182 Old Colchester Road 74 Chestnut Hill Road 33 Willow Drive 70 Cone Road 347 Gilead Street 80 Slocum Road 22 Tannery Hill Lane 1030 Gilead Street 58 Carolyn Drive 5 Burnt Hill Road 87 Burnt Hill Road 244 Martin Road 101 Loveland Road 875 Church Street 28 Laura Drive 50 Slocum Road 111 West Street 36 Hoadly Road 33 Alice Lane 7 Fieldstone Drive 23 Olde Hall Road 116 Cannon Drive 31 Pub Circle 237 Skinner Lane	 Repair	 4706-02-1 4705-01-1 4705-00-01-L1 4701-00-2-R4 4705-00-1 3107-00-1 3108-08-1-L1 4706-00-1 4706-00-1 4706-01-1 4707-05-1 3107-00-1 4706-00-1 4706-00-1-L2 4706-02-1 4701-00-1 4701-00-2-R4 3107-00-1 4706-00-1 4707-09-1-L1 4705-03-1 4701-00-2-R4 4705-00-1 4706-01-1 4705-00-1 3107-00-1 4705-00-1-L1	
2019 Citizen illicit discharge reporting system was in place. No illicit discharges were reported.	23 Repairs 49 Cannon Drive 136 Martin Road 294 Skinner Lane 130 Slocum Road 27 Oak Drive 4 Abby Drive 9 Laura Drive 138 Millstream Road 347 Old Slocum Road 34 Oak Drive 127 Joel Drive 268 Skinner Lane 135 Slocum Road 37 Northam Road	 Repair Repair Repair Repair Repair Repair Repair Repair Repair Repair Repair Repair Repair Repair Repair	 4705-00-1 4706-01-1 4705-00-1-L1 4706-00-1 3107-00-1 4707-05-1-L2 3107-00-1 4701-00-2-R1 4706-00-1 3107-00-1 4706-01-1 4705-00-1-L1 4706-00-1 4705-00-2-R1	

	215 North Street	Repair	4707-05-1-L2	
	31 Attawanhood Trail	Repair	4705-00-1	
	291 Skinner Lane	Repair	4705-00-1-L1	
	29 Senate Brook Drive	Repair	4705-03-1	
	303 Skinner Lane	Repair	4705-00-1-L1	
	80 Yorkshire Drive	Repair	3107-00-1	
	19 Maple Avenue	Repair	4701-00-2-R4	
	43 Crouch Road	Repair	4701-00-2-R4	
	80 Yorkshire Drive	Repair	3107-00-1	
2020 Citizen illicit discharge reporting system was in place. No illicit discharges were reported.	40 Repairs 91 Millstream Road 238 Main Street 366 West Main Street 58 Hickory Drive 44 Old Colchester Road 370 Jones Street 182 London Road 61 Carriage Drive 65 Hickory Lane 18 Basket Shop Road 520 Wall Street 98 Jan Drive 279 Old Colchester Road 200 Gilead Street 82 Ridge Road 188 Jones Street 155 Reidy Hill Road 225 Martin Road 500 Wall Street 51-53 Gilead Street 180 Gilead Street 102 Northam Road 386 Burnt Hill Road 104 Old Colchester Road 56 Blackman Road 243 Hope Valley Road 353 West Main Street 165 Gilead Street 270 West Street 299 Jagger Lane 335 Jagger Lane 310 West Street 11 Joel Drive 315 Gilead Street	 Repair	 4701-00-1 4701-00-1 4706-00-1 3107-00-1 4705-00-1 4705-00-3-R4 3107-00-1 4706-00-1 3107-00-1 4701-00-1 4705-00-1-L1 3107-00-1 4701-00-2 4705-00-1-L1 4705-00-1 4705-02-1-L1 4705-00-2-R1 4706-01-1 4705-00-1-L1 4705-00-1 4705-05-1 4705-00-2-R1 4705-00-1-L1 4705-00-1 4706-00-1 4705-01-1 4706-00-1 4705-00-1 4707-09-1 4706-00-1 4706-00-1 4707-09-1 4706-01-1-L1 4706-00-1	

	110 Slocum Road 182 London Road 12 Karen Circle 26 Woods Lane 111 West Street 43 Joel Drive	Repair Repair Repair Repair Repair Repair	4706-00-1 3107-00-1 4706-01-1-L1 4705-00-1-L1 4707-09-1-L1 4706-01-1-L1	
2021 Citizen illicit discharge reporting system was in place. No illicit discharges were reported.	3 Repairs 620 East Street 35 Coleman Road 148 Cannon Drive	 Repair Repair Repair	 3108-07-1 4707-09-1 4705-00-1	
2022 Citizen illicit discharge reporting system was in place. No illicit discharges were reported.	37 Repairs 619 Old Colchester Road 261 West Street 33 Country Lane 4 Golf Lane 121 East Street 255 East Street 425 Gilead Street 154 Cannon Drive 155 West Street 340 Burrows Hill Road 438 Old Colchester Road 436 West Street 113 Willow Drive 114 Daly Road 8 Karen Circle 248 West Street 146 Jennifer Drive 33 Hickory Drive 285 Skinner Lane 100 Yorkshire Drive 269 West Street 5 Mohegan Lane 76 East Street 976 Church Street 888 Gilead Street 88 Niles Road 50 Northam Road 186 North Street 364 Gilead Street	 SSDS Repair	 4702-02-1 4707-09-1 4705-01-1 4707-08-1 4706-00-1/4705-00-1-L1 4706-00-1 4706-00-1 4705-00-1 4706-02-1-L1/4707-09-1-L1 4706-00-1 4702-00-2-R2 4707-09-1 3107-00-1 3107-00-1 4706-01-1-L1 4707-09-1 4706-00-1 3107-00-1 4705-00-1-L1 3107-00-1 4707-09-1 4705-00-2-R1 4705-00-1-L1 4702-00-2-L1 4706-01-1-L1 4702-02-1 4705-00-2-R1 4707-05-1-L2 4706-00-1	

	26 Oak Drive 259 Millstream Road 27 Root Lane 528 Old Colchester Road 35 Basket Shop Road 167 Reidy Hill Road 205 West Street	SSDS Repair SSDS Repair SSDS Repair SSDS Repair SSDS Repair SSDS Repair SSDS Repair	3107-00-1 4701-00-2-R2 4706-01-2-R2 4702-00-2-R2 4705-00-1-L1 4705-00-2-R1 4706-02-1	
2023 Citizen illicit discharge reporting system was in place. No illicit discharges were reported.	23 Repairs 37 Senate Brook Drive 297 Skinner Lane 167 West Main Street 38 Jan Drive 10 Martin Road 33 Scarboro Road 35 Rham Road 819 East Street 14 Olde Hall Road 39 Papermill Road 85 Buck Road 45 Senate Brook Drive 75 Old Daniels Road 180 Old Colchester Road 94 Burrows Hill Road 242 Hope Valley Road 650 Gilead Road 45 Congress Street 690 Church Street 12 Carriage Drive 8 Wellington Way 120 London Road 82 Reidy Hill Road	 SSDS Repair SSDS Repair SSDS Repair SSDS Repair SSDS Repair SSDS Repair SSDS Repair SSDS Repair SSDS Repair SSDS Repair SSDS Repair SSDS Repair SSDS Repair SSDS Repair SSDS Repair SSDS Repair SSDS Repair SSDS Repair SSDS Repair SSDS Repair SSDS Repair SSDS Repair SSDS Repair SSDS Repair	 4705-03-1 4705-00-1-L1 4705-01-1-L1 3107-00-1 4706-03-1 3108-07-1 4705-00-1 3107-00-1 4706-02-1 4706-00-1 4706-00-1 4705-03-1 4705-00-3-R2 4701-00-2-R4 4705-00-1 4706-00-1-L4 4706-00-1 4705-01-1 4706-01-1 4706-00-1 4705-03-1 4701-00-2-R4 4706-00-1 4702-02-1 3107-00-1 4705-00-2-R1	
2024 Citizen illicit discharge reporting system was in place. No illicit discharges were reported.	17 Repairs 377 Martin Drive 72 Charles Lane 21 Abby Road 290 Burrows Hill Road	 Distribution Box Repair and Maintenance Building Sewer Line, Septic Tank and Leaching System Repair and Maintenance Septic Tank, Leaching System, Distribution Box, Other Repair Septic Tank, Leaching System, Distribution Box Repair	 4707-09-01 4706-02-01 4707-05-1-L2 4705-01-1	Russell Melmed, MPH, Director of Health, Chatham Health District

	84 Congress Drive 28 Heron Hill Road 225 Crouch Road 39 Laura Drive 249 Wall Street 100 Gilead Street 96 Hall Road 234 Skinner Lane 55 Burrows Hill Road 50 Burrows Hill Road 185 Burnt Hill Road 110 Gilead Street 185 Hope Valley Road	Septic Tank and Distribution Box Repair Septic Tank and Distribution Box Repair Septic Tank and Distribution Box Repair Septic Tank, Leaching System, Other Repair Other Repair and Maintenance Septic Tank Repair Septic Tank and Leaching System Repair Septic Tank and Leaching System Repair Septic Tank, Leaching System, Distribution Box Repair Septic Tank Repair Septic Tank and Distribution Box Repair Septic Tank and Distribution Box Repair Septic Tank Repair	4705-03-1 4701-00-2-R4 4702-01-1 3107-00-1 4701-00-1 4705-00-1 4706-01-1 4705-00-1-L1 4705-01-1 4705-01-1 3108-07-1 4705-00-1 4705-00-1	

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

The citizen illicit discharge reporting system has been in place since 2017. No illicit discharges have been reported to date which corresponds to no discharges of sewage to town storm drainage systems based on records of Chatham Health District.

3.6 IDDE reporting metrics

Metrics	
Estimated or actual number of MS4 outfalls	293+
Estimated or actual number of interconnections	To Be Determined
Outfall mapping complete	95%
Interconnection mapping complete	0%
System-wide mapping complete (detailed MS4 infrastructure)	40%
Outfall assessment and priority ranking	0%
Dry weather screening of all High and Low priority outfalls complete	100%
Catchment investigations complete	0%

Estimated percentage of MS4 catchment area investigated	95%

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.

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

4.1 BMP Summary

BMP	**Status** (Complete, Ongoing, In Progress, or Not started)	**Activities in Current Reporting Period**	**Measurable Goal**	**Person Responsible, Department**	**Date Completed or Projected Completion Date** (include the start date for anything that is 'in progress')	**Additional Details**
4-1 Implement, upgrade, and enforce land use regulations or other legal authority to meet requirements of MS4 general permit (Due 07/01/20)	Complete	The Subdivision Regulations and Public Improvement Specifications, as amended February 12, 2011, and the Zoning Regulations with an Effective Date of April 9, 2018, incorporate the requirements contained in the MS4 General Permit	Compliance	2017 through June 2021 Michael O'Leary, Town Planner, Planning and Development Department	Subdivision Regulations and Public Improvement Specifications, as amended February 12, 2011 The Zoning Regulations with an Effective Date of April 9, 2018	
4-2 Develop and Implement a 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	2017 through June 2021 Michael O'Leary Town Planner, Planning and Development 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 BMPs as contained in the *Connecticut Guidelines for Soil Erosion and Sediment Control*, as amended.	Compliance	2017 through December 2024 Thomas H. Fenton, P.E., Town Engineer, Nathan L. Jacobson & Associates, Inc.	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	2017 through December 2024 Thomas H. Fenton, P.E., Town Engineer, Nathan L. Jacobson & Associates, Inc.	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 and the Planning & Zoning Commission during the Public Hearing Process when applicable.	Compliance	2017 through June 2021 Michael O'Leary Town Planner, Planning and Development Department	July 01, 2017	
4-6 Implement procedure to notify developers about DEEP construction stormwater permit (Ongoing)	Ongoing	Since the inception of the MS4 program Nathan L. Jacobson & Associates, Inc., Town Engineer, has made developer's engineers aware of the need to register for the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities 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.	2017 through December 2024 Thomas H. Fenton, P.E., Town Engineer, Nathan L. Jacobson & Associates, Inc.	July 01, 2017	

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

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 Subdivision Regulations and Public Improvement Specifications, as amended February 12, 2011 and The Zoning Regulations with an Effective Date of April 9, 2018 Both incorporate the requirements contained in Minimum Control Measure No. 5 - Post-Construction Runoff Control.	The requirements contained in Minimum Control Measure No. 5 - Post-Construction Runoff Control will be forwarded to the Town Planner.	2017 through June 2021 Michael O'Leary October 2021 through March 2022 Patrick Gallagher May 2022 through Present Matthew Bordeaux Director of Planning and Development, Planning and Development Department	Prior to July 01, 2021.	
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects	Ongoing	Continuing		Thomas H. Fenton, P.E., Town Engineer, Nathan L. Jacobson &	July 01, 2017	

(Due 07/01/22)				Associates, Inc.		
5-3 Identify retention and detention ponds in priority areas (Due 07/01/20)	Under Development The detention pond and retention pond inventory will be completed in 2025.	Retention Ponds, Detention Ponds and Hydrodynamic Separators are being inventoried. A GIS Map Layer will be created after the inventory. Part of the inventory process will be facility operation and maintenance requirements.	Moving to Compliance	2017 - June 2023 Kevin J. Kelly, Director, Public Works Department and July 2023 - Current Paul J. Forrest Director, Public Works Department and 2017 through December 2024 Thomas H. Fenton, P.E., Town Engineer, Nathan L. Jacobson & Associates, Inc.	Calendar Year 2025	
5-4 Implement long-term maintenance plan for stormwater basins and treatment structures (Ongoing)	To Be Implemented in 2020	Inventory Retention Ponds, Detention Ponds and Hydrodynamic Separators.	Accumulated Sediment is removed from all detention basins, retention basins and	2017 - June 2023 Kevin J. Kelly, Director, Public Works Department		A Post-Construction Stormwater Management Facility Operation & Maintenance Plan Manual with an Effective Date of July 01, 2019

			sedimentation structures annually.	July 2023 - Current Paul J. Forrest Director, Public Works Department		was prepared and provided to the DPW.
5-5 DCIA mapping (Due 07/01/20)	Complete	Completed 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 start in 2018.	Nathan L. Jacobson & Associates, Inc., Town Engineer	February 2019	
5-6 Address post-construction issues in areas with pollutants of concern	Not Applicable There are no Town MS4 Impaired Waters in Hebron other than Gay City State Park.	While there are no Impaired Waters in Hebron, all post-construction stormwater management issues are corrected to address the concerns of Kevin J. Kelly and Thomas H. Fenton, P.E.	Stormwater outfalls discharging to waters identified as impaired in the 2022 Integrated Water Quality Report and in watersheds with a DCIA of greater than 11 percent will be subject to enhanced water quality treatment.	2017 - June 2023 Kevin J. Kelly, Director, Public Works Department and 2017 through December 2024 July 2023 - Current Paul J. Forrest Director,	July 01, 2017	

				Public Works Department and 2017 through December 2024 Thomas H. Fenton, P.E., Town Engineer, Nathan L. Jacobson & Associates, Inc.		

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

Procedures outlined in the Post-Construction Stormwater Management Facility Operation & Maintenance Plan Manual were implemented in 2020.

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)	7.00 Acres
DCIA disconnected (redevelopment plus retrofits)	2012 through 2016 - To Be Determined 2017 through 2022 - 0 Acres 2012 through 2024 - To Be Determined
Retrofit projects completed	2012 through 2016 - To Be Determined 2017 through 2021- 0 Acres 2012 through 2024 - To Be Determined
DCIA disconnected	2012 through 2016 - To Be Determined 2017 through 2022 - 0 Acres 2012 through 2024 - To Be Determined
Estimated cost of retrofits	$0
Detention or retention ponds identified	All ponds will be identified in 2024.

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

Based on information contained in the Factsheet: *Town of Hebron Water Quality and Stormwater Summary,* prepared by the CT DEEP, 839.55 acres of the town has an impervious area exceeding 12% which is approximately 3.51% of the town. 364.47 acres have an impervious cover of ranging from 12% to 25%, 362.17 acres have an impervious cover ranging from 26% to 50%, 84.29 acres have an impervious cover ranging from 51% to 75% and 28.62 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 210.15 acres of buildings, 330.46 acres of roads and 420.20 acres of other impervious surfaces for a total impervious surface area of 960.81 acres.

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

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**
6-1 Develop and implement a formal employee training program (Ongoing)	Ongoing	See 6.3 Below DPW Employees are encouraged to attend formal training programs.	Compliance	2017 - June 2023 Kevin J. Kelly, Director, Public Works Department July 2023 - Current Paul J. Forrest Director, Public Works Department and Nathan L. Jacobson & Associates, Inc., Town Engineer	July 01, 2017	
6-2 Implement MS4 property and operations maintenance (Ongoing)	Ongoing		Compliance	2017 - June 2023 Kevin J. Kelly, Director, Public Works Department	July 01, 2017	

				July 2023 - Current Paul J. Forrest Director, Public Works Department		
6-3 Implement coordination with interconnected MS4s	Ongoing	The Town of Hebron continued to coordinate MS4 responsibilities with the Towns of Bolton, Andover, Columbia, Lebanon, Colchester, Marlborough and Glastonbury as well as Conn DOT.	Continuing	2017 - June 2023 Kevin J. Kelly, Director, Public Works Department July 2023 - Current Paul J. Forrest Director, Public Works Department	July 01, 2017	
6-4 Develop and implement a program to control other sources of pollutants to the MS4	Not Needed	Currently no other sources of pollutants exist in Hebron.	Not Applicable	2017 through December 2024 Thomas H. Fenton, P.E., Town Engineer, Nathan L. Jacobson & Associates, Inc.	Not Required	
6-5 Evaluate additional measures for discharges to impaired waters*	Not Applicable	No impaired waters exist in the Town of Hebron MS4.	Not Applicable	2017 through December 2024 Thomas H. Fenton, P.E., Town Engineer, Nathan L.	Not Required	

				Jacobson & Associates, Inc.		
6-6 Track projects that disconnect DCIA (Ongoing)	In Progress	2017 through 2024 - None	Will be done whenever possible.	2017 - June 2023 Kevin J. Kelly, Director, Public Works Department July 2023 - Current Paul J. Forrest Director, Public Works Department and Nathan L. Jacobson & Associates, Inc., Town Engineer		Redevelopment projects that result in DCIA reduction are rare in Hebron.
6-7 Implement infrastructure repair/rehab program (Due 07/01/21)	In Progress	2017 through 2024 - None	Moving to Compliance	2017 - June 2023 Kevin J. Kelly, Director, Public Works Department July 2023 - Current Paul J. Forrest Director, Public Works Department		

				and Nathan L. Jacobson & Associates, Inc., Town Engineer		
	Schematic Designs Complete	2021 The University of Connecticut Stormwater Corps developed the Hebron Stormwater Runoff Reduction Plan and presented the plan in November. Several sites were considered in town and the University of Connecticut Stormwater Corps proposed LID retrofits at the following sites: Hebron Elementary School Russell Mercier Senior Center Hebron Town Office Building Veteran's Memorial Park RHAM Middle School Burnt Hill Park and Gilead Hill School	LID retrofits	2017 - June 2023 Kevin J. Kelly, Director, Public Works Department July 2023 - Current Paul J. Forrest Director, Public Works Department	November 2021	
6-8 Develop and implement plan to identify/prioritize retrofit projects (Due 07/01/20)	To Be Developed	2017 through 2024 - None	Moving to Compliance	2017 - June 2023 Kevin J. Kelly, Director, Public Works Department July 2023 - Current Paul J. Forrest Director, Public Works Department and		

				Nathan L. Jacobson & Associates, Inc., Town Engineer		
6-9 Implement retrofit projects to disconnect 2% of DCIA (Due 07/01/22)	To Be Developed	2017 through 2024 - None	Will be done whenever possible.	2017 - June 2023 Kevin J. Kelly, Director, Public Works Department July 2023 - Current Paul J. Forrest Director, Public Works Department and Nathan L. Jacobson & Associates, Inc., Town Engineer		Retrofit projects that result in DCIA reduction are rare in Hebron.
6-10 Develop and implement a street sweeping program (Ongoing)	Ongoing	The Town of Hebron currently implements a road sweeping program whereby all town roads are swept at one time per year.	Continuing	2017 - June 2023 Kevin J. Kelly, Director, Public Works Department July 2023 - Current Paul J. Forrest Director, Public	July 01, 2017	

				Works Department		
6-11 Develop and implement a catch basin cleaning program (Ongoing)	Ongoing	The Town of Hebron currently implements a catch basin cleaning program whereby all catch basins are cleaned every year	Continuing	2017 - June 2023 Kevin J. Kelly, Director, Public Works Department July 2023 - Current Paul J. Forrest Director, Public Works Department	July 01, 2017	
6-12 Develop and implement snow management practices (Due 07/01/18)	Ongoing	See 6.3 Below	Continuing	2017 - June 2023 Kevin J. Kelly, Director, Public Works Department July 2023 - Current Paul J. Forrest Director, Public Works Department	July 01, 2017	

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

Continue to have employees attend continuing education on DPW pollution prevention BMPs.

Continue to implement road sweeping and catch basin cleaning operations town-wide.

6.3 Pollution Prevention/ Good Housekeeping reporting metrics

Metrics	
Employee training provided for key staff	DPW Employees are encouraged to attend UConn CT Technology Transfer (T2) Center training programs. 2017 - Rob Schadtle completed the Road Master Program which included training on Planning and Managing Local Road Snow and Ice Control Activities. Dillon Fournier completed the Public Works Academy which included training on Winter Operations and Safe Snowplowing. 2018 - Shawn Covell and Zachary Smith completed the Public Works Academy which included training on Winter Operations and Safe Snowplowing. 2019 - Austin Wosleger completed the Public Works Academy which included training on Winter Operations and Safe Snowplowing. 2020 through 2021 - Due to the COVID-19 pandemic no employee training was conducted. 2022 - Carl Floran and Jeremy Hunniford completed the Public Works Academy which included training on Winter Operations and Safe Snowplowing. Kevin Kelly and Darren Norton completed the CT Technology Transfer (T2) Center Green Snow Pro training program. 2023 - No employee training was conducted. 2024 - Oliver Murphy completed the Public Works Academy which included training on Winter Operations and Safe Snowplowing. 2025 - It is anticipated that DPW employee training will continue.
Street sweeping	
Curb miles swept	154.46
Volume (or mass) of material collected	2017 - Was Not Estimated

	2018 - 250± C.Y. 2019 - 250± C.Y. 2020 - 250± C.Y. 2021 - 250± C.Y. 2022 - 250± C.Y. 2023 - 250± C.Y. 2024 - 250± 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	1,573
Catch basins inspected	2017 through 2022 - 1,573
Catch basins cleaned	2017 through 2022 - 1,573
Volume (or mass) of material removed from all catch basins	2017 - 300-400± C.Y. 2018 - 250-300± C.Y. 2019 - 250-300± C.Y. 2020 - 250-300± C.Y. 2021 - 250-300± C.Y. 2022 - 250-300± C.Y. 2023 - 250-300± C.Y. 2024 - 250-300± C.Y.
Volume removed from catch basins to impaired waters (if known)	Not Applicable
Snow management	
Type(s) of deicing material used	Deicing Mix: Majority of Town: 2017 through 2020 - NaCl Salt treated with Ice B'Gone at the rate of 6-8 gallons per ton 2021 - Promelt Ultra 2000 treated salt. 2022 through 2024 NaCl Salt treated with Ice B'Gone at the rate of 6-8 gallons per ton Amston Lake Area: 4 Parts Sand to 1 Part NaCl Salt treated with Ice B'Gone at the rate of 6-8 gallons per ton
Total amount of each deicing material applied	Winter 2017 to 2018 - 1,400 Tons Treated NaCl and 50 C.Y. Sand Winter 2018 to 2019 - 513 Tons Treated NaCl Salt, 69 Tons of Sand/Treated NaCl Salt Mix and 10 Tons of untreated NaCl Salt. Winter 2019 to 2020 - 1,295 Tons Treated NaCl Salt, 72 Tons of Sand/Treated NaCl Salt Mix and 26 Tons of untreated NaCl Salt.

	Winter 2020 to 2021 - 1,200 Tons Treated NaCl Salt, 70 Tons of Sand/Treated NaCl Salt Mix and 10 Tons of untreated NaCl Salt Winter 2021 to 2022 - 1,200 Tons Treated NaCl Salt, 70 Tons of Sand/Treated NaCl Salt Mix and 120 Tons of untreated NaCl Salt. Winter 2022 to 2023 - 600 Tons Treated NaCl Salt, 35 Tons of Sand/Treated NaCl Salt Mix and 60 Tons of untreated NaCl Salt. Winter 2023 to 2024 - 600 Tons Treated NaCl Salt, 35 Tons of Sand/Treated NaCl Salt Mix and 60 Tons of untreated NaCl Salt.
Type(s) of deicing equipment used	Eleven Large Snow Plows/Spreaders and two small Snow Plows/Spreaders. Four of the eleven spreaders are ground-speed-controlled set at an application rate of 250-300 pounds per lane mile. The manually controlled spreaders are also calibrated annually before plowing season to an application rate of 250-300 pounds per lane mile.
Lane-miles treated (A lane-mile is a mile of roadway in a single driving lane)	154.46
Snow disposal location	Road Shoulders
Staff training provided on application methods & equipment	2017 - Rob Schadtle completed the Road Master Program which included training on Planning and Managing Local Road Snow and Ice Control Activities. Dillon Fournier completed the Public Works Academy which included training on Winter Operations and Safe Snowplowing. 2018 - Shawn Covell and Zachary Smith completed the Public Works Academy which included training on Winter Operations and Safe Snowplowing. 2019 - Austin Wosleger completed the Public Works Academy which included training on Winter Operations and Safe Snowplowing. 2020 through 2021 - Due to the COVID-19 pandemic no employee training was conducted. 2022 - Kevin Kelly and Darren Norton completed the CT Technology Transfer (T2) Center Green Snow Pro training program

	2024 - Oliver Murphy completed the Public Works Academy which included training on Winter Operations and Safe Snowplowing. 2025 - It is anticipated that DPW employee training will continue.
Municipal turf management program actions (for permittee properties in basins with N/P impairments)	
Reduction in application of fertilizers (since start of permit)	0 %
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.
There are 1,573 catch basins in the Town of Hebron. 2017 through 2024 - 1,573 catch basins, a hydrodynamic separator and sedimentation tanks were cleaned. As all structures are cleaned annually, no optimization methods are required.

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. The retrofit program will be prioritized based on setback distance from watercourse and/or waterbodies.

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)
Based on information contained in the CT DEEP *Factsheet: Town of Hebron Water Quality and Stormwater Summary,* 839.55 acres of the town has an impervious area exceeding 12%. The DCIA for the town was computed to be 7.00 acres using methods contained in the paper entitled *Estimating Change in Impervious Area (IA) and Directly Connected Impervious Area (DCIA) for Massachusetts Small MS4 Permit*. The 2% reduction in DCIA will require a DCIA reduction of 0.140 acre by July 01, 2022. 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.

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 ☐

There are no Impaired Waters in the Town Hebron other than the State-owned Gay City State Park Pond which is being addressed by the State.

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.
There are no Impaired Waters in the Town Hebron other than the State-owned Gay City State Park Pond which is being addressed by the State. A partnership was formed with the Salmon River Watershed Partnership, Gay City State Park, UConn Master Gardeners and CT DEEP Parks whereby a vegetated buffer biofilter to deter Canada Geese and to filter stormwater runoff was constructed. Additional funds are being pursued for additional plantings and the installation of permanent public educational signage. In that the impaired water is in a State Park, the Town of Hebron does not need to investigate and monitor the bacteria impairment.

2. Screening Data for Outfalls to Impaired Waterbodies (Section 6(i)(1) / page 41)

2.1 Screening Data

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

Each Annual Report will add on to the previous year's data showing a cumulative list of sampling data.

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

There are no Impaired Waters in the Town Hebron other than the State-owned Gay City State Park Pond which is being addressed by the State.

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

Pollutant of concern	**Pollutant threshold**
Nitrogen	Total N > 2.5 mg/l
Phosphorus	Total P > 0.3 mg/l
Bacteria (fresh waterbody)	• E. coli > 235 col/100ml for swimming areas or 410 col/100ml for all others • Total Coliform > 500 col/100ml
Bacteria (salt waterbody)	• Fecal Coliform > 31 col/100ml for Class SA and > 260 col/100ml for Class SB • Enterococci > 104 col/100ml for swimming areas or 500 col/100 for all others
Other pollutants of concern	Sample turbidity is 5 NTU > in-stream sample

There are no Impaired Waters in the Town Hebron other than the State-owned Gay City State Park Pond which is being addressed by the State.

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

There are no Impaired Waters in the Town Hebron other than the State-owned Gay City State Park Pond which is being addressed by the State.

4. Prioritized Outfall Monitoring (Section 6(i)(1)(D) / page 43)

Once outfall sampling has been completed for at least 50% of outfalls to impaired waters, identify 6 of the highest contributors of any pollutants of concern. Begin monitoring these outfalls on an annual basis by July 1, 2021.

Outfall	Latitude & Longitude	Sample Date	Parameter(s)	Results	Name of Laboratory (if used)

There are no Impaired Waters in the Town Hebron other than the State-owned Gay City State Park Pond which is being addressed by the State.

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
4701-04-1	11.35% Impervious	1

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.

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

2018 through 2020 - No dry weather screening was conducted.

2021 - Dry weather screening of all outfalls was conducted. On the basis of dry weather screening, no observations were made that warranted sampling (i.e. no potential illicit discharges were observed).

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.

Outfall or Interconnection ID	Latitude & Longitude	Sample Date	Ammonia	Chlorine	Conductivity	Salinity	E. coli or Enterococcus	Surfactants	Water Temp	Pollutant of Concern

2018 through 2024 - No wet weather inspection and sampling was conducted.

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. 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 that poor owner maintenance).
12. History of multiple local health department or sanitarian actions addressing widespread septic system failures (indicative of inadequate soils, water table separation, or other physical constraints of the area rather that poor owner maintenance).

3.2 Key Junction Manhole Dry Weather Screening and Sampling Data

Key Junction Manhole ID	Latitude & Longitude	Screening or Sampling Date	Visual/Olfactory Evidence of Illicit Discharge	Ammonia	Chlorine	Surfactants

2018 through 2024 - No junction manhole screening or sampling was conducted.

3.3 Wet Weather Investigation Outfall Sampling Data

Outfall ID	Latitude & Longitude	Sample Date	Ammonia	Chlorine	Surfactants

2018 through 2024 - No wet weather outfall screening or sampling was 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

2018 through 2024 - No potential illicit discharges were observed. Consequently, no catchment investigation procedure was 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: Andrew J. Tierney, Town Manager	Print Name: Wade M. Thomas, CPMSM
Signature: Andrew J. Tierney	Signature: Wade M. Thomas
Date: May 5, 2025	Date: May 30, 2025