

MS4 General Permit
Town of Guilford 2020 Annual Report
Existing MS4 Permittee
Permit Number GSM000077
January 1, 2020 – December 31, 2020

Primary MS4 Contact: Janice Plaziak, Town Engineer, 203-453-8037, PlaziakJ@ci.guilford.ct.us

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

Part I: Summary of Minimum Control Measure Activities

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

1.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
1-1 Implement public education and outreach	Ongoing	Supply “Do not feed waterfowl” flyer	Available at municipal offices	Janice Plaziak, Town Engineer	Ongoing	Ongoing	This information shall be added to the town website each year.
1-2 Address education/ outreach for pollutants of concern*	Ongoing	Supply Household Hazwaste Central flyer	Available at municipal offices	Janice Plaziak, Town Engineer	Ongoing	Ongoing	This information shall be added to the town website each year.
	Ongoing	Supply “Caring for your septic system” flyer	Available at municipal offices	Janice Plaziak, Town Engineer	Ongoing	Ongoing	This information shall be added to the town website each year.
	Ongoing	Supply “Lawn care the Environmentally Friendly Way” flyer	Available at municipal offices	Janice Plaziak, Town Engineer	Ongoing	Ongoing	This information shall be added to the town website each year.
	Ongoing	Supply “Help Clean up Long Island Sound” flyer	Available at municipal offices	Janice Plaziak, Town Engineer	Ongoing	Ongoing	This information shall be added to the town website each year.
	Ongoing	Supply “Clean Waters Starting in your Home and Yard”	Available at municipal offices	Janice Plaziak, Town Engineer	Ongoing	Ongoing	This information shall be added to the town website each year.

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

Provide above flyer information on town website under the Health Department. Present storm water annual report to Board of Selectmen. Budget presentation highlighting the efforts to gain additional funding for outfall screening is televised and boosts public awareness of pollution concerns. Guilford is a registered participant of sustainable CT and hosts events to promote a clean, green community.

1.3 Details of activities implemented to educate the community on stormwater

Program Element/Activity	Audience (and number of people reached)	Topic(s) covered	Pollutant of Concern addressed (if applicable)	Responsible dept. or partner org.
Educational stormwater material distributed at Town Halls, Community Center and Library and on town website	Adults, children(20000)	Impact of contaminating stormwater, groundwater	Bacteria, Phosphorus, nitrogen	Engineering Department

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

2.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
2-1 Comply with public notice requirements for the Stormwater Management Plan	On time		Advertise public notice in compliance with FOI	Jim Portley, Town Engineer	Apr 3, 2017	April 2017	
2-2 Comply with public notice requirements for Annual Reports	On time	Town posted on website report is available	Advertise public notice	Janice Plaziak, Town Engineer	Feb 15, 2021	Feb 2018-2021	Notice on town website Annual report is available for public comment
2-3 Establish stormwater committee	In progress	Establish protocol for addressing stormwater needs.	Provide forum to coordinate SWMP implementation across depts.	Matt Hoey, First Selectman	-	April 2021	Committee will represent the following town departments: Engineering, Public Works, Planning, Wetlands, Health, and Parks & Rec.

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

Complaint forms are available online for sanitary or stormwater concerns.

2.3 Public Involvement/Participation reporting metrics

Metrics	Implemented	Date	Posted
Availability of the Stormwater Management Plan announced to public	Y	April 2017	www.ci.guilford.ct.us
Availability of Annual Report announced to public	Y	February 2021	www.ci.guilford.ct.us

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

3.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
3-1 Develop written IDDE program	complete	none	Develop written plan of IDDE program	Janice Plaziak, Town Engineer	Jul 1, 2018	December 1, 2019.	
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas	95% complete	Funding and services secured for additional subdivision mapping	Map of outfalls Available on website	Kevin Magee, Environmental Planner Janice Plaziak, Town Engineer Tom Fillion, PW Director	Jul 1, 2019	April 1, 2021	Subdivision mapping shall be added moving forward from 2008. Engineering and Public Works shall correct and/or add to mapping as the system is explored.
3-3 Implement citizen reporting program	Completed	none	Have complaint form on website under Health Department	Dennis Johnson, Health Director	Jul 1, 2017	completed	
3-4 Establish legal authority to prohibit illicit discharges	Completed	The Town Engineer has legal authority to prohibit illicit discharges under the new ordinance	Engineering shall work with the Health Dept to track and address illicit discharge	Janice Plaziak, Town Engineer Dennis Johnson, Health Director	Jul 1, 2018	February 15, 2019	Approved at the January 7, 2019 public hearing
3-5 Develop record keeping system for IDDE tracking	Completed	Keep electronic spread sheet and health department flags complaints in record keeping system	Keep data up to date monthly	Janice Plaziak, Town Engineer	Jul 1, 2017	July 1, 2019	

3-6 Address IDDE in areas with pollutants of concern	In progress	Keep a record of offenses and note repeated or clustered locations that may need more frequent inspections.	Keep track monthly	Janice Plaziak, Town Engineer Tom Fillion, PW Director Sonia Marino, Health Director	Not specified	Ongoing	
3-7 Consolidate IDDE tracking spreadsheets	In progress	Compile all the IDDE tracking requirements into one spreadsheet	Keep track monthly	Janice Plaziak, Town Engineer	Not specified	Ongoing	Track all IDDE activities efficiently

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

Sampling to monitor any IDDE in high priority areas; follow up according to sampling results.
Investigate any potential IDDE reported by citizens or discovered during outfall inspections; follow up appropriately based on findings.
Record all IDDE activity.

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

Date of Report	Location / suspected source	Response taken
1/14/20	64 Sperry Dr – Sump Discharge	Letter Sent, Resident responded promptly, source is concentrated groundwater.
4/16/20	38 Howard Dr – Sump Discharge	Dry well installed for discharge
8/1/20	1164 Boston Post Rd – Plugged drain. Soap and wax into West River	Car Wash Closed. Owner notified. Drain was cleaned out within 24 hours.
9/10/20	333 White Birch Dr – Softener Discharge	Wastewater treatment system installed on 11/18/20
9/25/20	787 Nut Plains Rd – fuel/oil dump	Fire Dept responded to call.

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

Location (street address)	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
140 Quonnipaug Ln	2/14/20	Quonnipaug Lake	150gpd possible	Failed Cesspool/ Property owner	Engineer design needed. Tenants keeping water usage to a minimum
48 Davis Dr	3/12/20	Sluice Creek	450gpd possible	Property owner	New septic system installed 4/12/20
111 Christopher Ln	5/1/20	West River	525gpd possible	Property owner	New septic installed 5/12/20
593 Towner Swamp Rd	6/29/20	South Central Shoreline	450gpd possible	Property owner	New septic installed 7/6/20
199 New England Rd	8/11/20	West River	450gpd possible	Property owner	New septic installed 8/27/20
427 Three Mile Course	11/20/20	West River	450gpd possible	Property owner	New septic installed 11/27/20

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

Complaint is entered into tracking software. The appropriate department will conduct a visual inspection based on complaint. When illicit discharge is occurring a letter shall be issued to the offender to correct the problem. The Town shall follow up until the issue has been corrected. Septic failures are mapped in order to identify problem areas. Ground/surface water dyeing by Health Department, Public Works or the Engineering Department may be utilized as needed.

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

Location and nature of structure with failing septic systems	Actions taken to respond to and address the failures	Impacted waterbody or watershed, if known
149 Town-wide septic system repairs or failures were inspected, repaired and/or replaced.	The vast majority of these were resident initiated repairs; others were addressed with an order letter to the property owners for immediate reparation by a licensed septic contractor with follow up inspections.	Notable discharges recorded above

3.7 IDDE reporting metrics

Metrics	
Estimated or actual number of MS4 outfalls	1511
Estimated or actual number of interconnections	In Progress, Identifying
Outfall mapping complete	95%
Interconnection mapping complete	95%
System-wide mapping complete (detailed MS4 infrastructure)	95%
Outfall assessment and priority ranking	95%
Dry weather screening of all High and Low priority outfalls complete	220
Catchment investigations complete	0
Estimated percentage of MS4 catchment area investigated	0%

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

Once a year public works staff reviews procedure for cleaning catch basins and inspecting outfalls. Outfall is visually inspected for illegal discharges. Health and Engineering Departments review IDDE procedures.

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

4.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
4-1 Implement, upgrade, and enforce land use regulations or other legal authority to meet requirements of MS4 general permit	Ongoing	Review Low Impact Regulations	Ensure regulations meet MS4 permit requirements	George Kral, Town Planner	Jul 1, 2019	Jul 1, 2019	
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval	Completed	Engage in weekly staff meetings	Interdepartmental communication	Jim Portley, Town Engineer	Jul 1, 2017	Jul 1, 2017	
4-3 Review site plans for stormwater quality concerns	Ongoing	Engage in weekly staff meetings	All site plans reviewed in timely manner	Janice Plaziak, Town Engineer Kevin Magee Environmental Planner	Jul 1, 2017	Jul 1, 2017	
4-4 Conduct site inspections	Ongoing	Inspect in progress construction sites	Ensure compliance with regulations	Erin Mannix, ZEO Kevin Magee, Environmental Planner	Jul 1, 2017	Jul 1, 2017	
4-5 Implement procedure to allow public comment on site development	Ongoing	Public hearing at Planning and zoning commission meetings on site	Ensure public comment received	George Kral, Town Planner	Jul 1, 2017	July 1, 2017	
4-6 Implement procedure to notify developers about DEEP construction stormwater permit	Ongoing	Developers informed at time of project application submission Zoning and Subdivision regulations	All developers notified	George Kral Town Planner Janice Plaziak Town Engineer	Jul 1, 2017	July 1, 2017	
4-7 Develop stormwater compliance checklist	Ongoing	Requiring erosion control, stormwater retention for new development, including maintenance plan and as-built	Integrate stormwater compliance into review process	Janice Plaziak, Town Engineer	-	Jul 1, 2019	Ensure compliance with stormwater regulations

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

Continued inspections of construction sites will be performed by the zoning officer and engineering department to ensure regulations are followed.

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

5.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
5-1 Establish and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning	Ongoing	Planning and Zoning is legal authority for maintaining guidelines	Ensure regulations updated	George Kral, Town Planner	Jul 1, 2021	Jul 1, 2021	Regulations under revision.
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects	Ongoing	Site inspection of existing construction sites Ongoing	Ensure requirement compliance	Erin Mannix, ZEO Janice Plaziak, Town Engineer	Jul 1, 2019	Jul 1, 2019	
5-3 Identify retention and detention ponds in priority areas	Ongoing	Identify and conduct Site inspection of existing ponds	Visit all ponds in priority areas	Erin Mannix, ZEO Janice Plaziak, Town Engineer	Jul 1, 2019	Jul 1, 2019	Site inspections will be ongoing
5-4 Implement long-term maintenance plan for stormwater basins and treatment structures	In process	Developers required to submit bonds that are used to maintain structures and submit maintenance reports to town	Require all structures to be maintained and documented	Janice Plaziak, Town Engineer	Jul 1, 2019	Jul 1, 2019	Maintenance documents under review for compliance
5-5 DCIA mapping	Complete	Staff shall reassess and document the DCIA for Guilford	Incorporate onto GIS layer	Janice Plaziak, Town Engineer	Jul 1, 2020	Jul 1, 2020	DCIA is mapped according to DCIA percentages within local sub-basins
5-6 Address post-construction issues in areas with pollutants of concern	In Process	Identify areas of pollutants	Tabulate on spreadsheet	Janice Plaziak, Town Engineer Dennis Johnson, Health Director	Not specified	In Progress	

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

Follow up on private system maintenance documentation.
 Visit all retention ponds and assess need for maintenance
 Implement a maintenance plan and/or inspection schedule for detention and retention basins.

5.3 Post-Construction Stormwater Management reporting metrics

Metrics	
Baseline (2012) Directly Connected Impervious Area (DCIA)	535
DCIA disconnected (redevelopment plus retrofits)	0 acres this year / 0 acres total – under review
Retrofits completed	0
DCIA disconnected	0% this year / % total since 2012 – under review
Estimated cost of retrofits	unknown
Detention or retention ponds and commercial underground galleries identified	27

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

DCIA calculation of local watershed basins in town per EPA DCIA connectivity equations.

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

6.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
6-1 Develop/implement formal employee training program	Ongoing	Review procedures for good housekeeping for public works and transfer station employees	All employees to be informed	Janice Plaziak, Town Engineer	Jul 1, 2017	Ongoing	
6-2 Implement MS4 property and operations maintenance	In process	Erected salt hoop house and secured funding for a vehicle wash bay at public works site	All salt to be enclosed – wash bay locations to be evaluated.	Janice Plaziak, Town Engineer	Jul 1, 2018	Jul 1, 2018	Public Works and wash bay site under review
6-3 Implement coordination with interconnected MS4s	In process	Define interconnected MS4s	Map interconnections and associated pollutants	Janice Plaziak, Town Engineer	Not specified	In progress	
6-4 Develop/implement program to control other sources of pollutants to the MS4	In process	Identify other sources of pollutants	Document reports and tested locations indicating source pollutants	Janice Plaziak, Town Engineer	Not specified	In progress	

6-5 Evaluate additional measures for discharges to impaired waters	In process	Take soil samples to determine how much fertilizer needed on fields. Use non phosphorous fertilizers Recycle grass clippings onto field Maintain a buffer from watercourses when applying.	Summarize in IDDE plan	Janice Plaziak, Town Engineer Rick Maynard, Parks & Rec Director	Not specified	In progress	Stay on lower end of recommended fertilizer rates. Use 50% slow release. Store fertilizer inside. Irrigate only as needed. An integrated pest management program is followed.
6-6 Track projects that disconnect DCIA	In process	Identify possible candidates in areas of town for DCIA disconnect	Maintain inventory of projects on spreadsheet	Janice Plaziak, Town Engineer	Jul 1, 2017	Jul 1, 2017	Current staff to follow up on previously implemented disconnections
6-7 Implement infrastructure repair/rehab program	In process	Town capital improvements program lists road reconstruction/improvement projects	Reconstruct /repair roads per program as funding allows	Janice Plaziak, Town Engineer	Jul 1, 2021	Jul 1, 2021	
6-8 Develop/implement plan to identify/prioritize retrofit projects	In process	Identify infrastructure that can be retrofitted	Compile schedule for completion of retrofits	Janice Plaziak, Town Engineer	Jul 1, 2020	In progress	
6-9 Implement retrofit projects to disconnect 2% of DCIA	In process	Identify areas of town eligible for disconnect	Compile list of projects and timetable for retrofits	Janice Plaziak, Town Engineer	Jul 1, 2022	Jul 1, 2022	
6-10 Develop/implement street sweeping program	Ongoing	Completed every year	Map completed streets every year	Thomas Fillion, PW Director	Jul 1, 2017	Jul 1, 2017	
6-11 Develop/implement catch basin cleaning program	Ongoing	Completed every year	Map/Log completed catch basins each year	Thomas Fillion, PW Director	Jul 1, 2020	Jul 1, 2018	
6-12 Develop/implement snow management practices	Ongoing	Every season	Implemented every year	Thomas Fillion, PW Director	Jul 1, 2018	Jul 1, 2018	
Disconnect all floor drains from storm sewers and groundwater at all industrial buildings	Completed	All industries notified and town visually inspected all floor drain disconnections	Prevent surface/groundwater pollution	Jim Portley, Town Engineer	Completed	Completed	Accomplished under former Health Director Dr. Elisabeth Adams in 1970's

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

Currently utilizing indoor wash station draining to a holding tank, pumping and hauling the wastewater offsite as needed.
A facilities study is underway to investigate options for a new wash facility for public works

6.3 Pollution Prevention/ Good Housekeeping reporting metrics

Metrics	
Employee training provided for key staff	yearly
Street sweeping	
Curb miles swept	324miles
Volume (or mass) of material collected	2250 CY
Catch basin cleaning	
Total catch basins in priority areas	2347 in Urbanized Area
Total catch basins in MS4	3346
Catch basins inspected	3346
Catch basins cleaned	3346
Volume (or mass) of material removed from all catch basins	1800 CY
Volume removed from catch basins to impaired waters (if known)	unknown
Snow management	
Type(s) of deicing material used	Treated salt, rock salt, sand
Total amount of each deicing material applied	296 CY treated salt 301 CY rock salt 1103 CY sand
Type(s) of deicing equipment used	Truck sanders
Lane-miles treated	186
Snow disposal location	Road shoulders or town fairgrounds
Staff training provided on application methods & equipment	yearly
Municipal turf management program actions (for permittee properties in basins with N/P impairments)	
Reduction in application of fertilizers (since start of permit)	N/A
Reduction in turf area (since start of permit)	N/A
Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems)	
Cost of mitigation actions/retrofits	unknown

6.4 Catch basin cleaning program

Briefly describe the method used to optimize your catch basin inspection and cleaning schedule.

Catch basins are cleaned and documented every year on a continuous basis. Sumps are cleaned out with a mechanical claw. Debris is brought to brush/leaf disposal site.

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.

As road and storm drainage projects are implemented for maintenance/upgrade, storm drainage outlets shall be adjusted for settling basins to be installed at outlets wherever possible. Storm runoff will be allowed to percolate in the ground before it reaches a watercourse.

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

The engineering department will meet with the public works director regarding roadway projects currently in queue to identify opportunities for disconnection.

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

The engineering department will continue to confer with the public works director regarding annual improvement and maintenance projects in order to implement disconnection wherever possible.

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Part II: Impaired waters investigation and monitoring

1. Impaired waters investigation and monitoring program

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

Nitrogen/ Phosphorus Bacteria Mercury Other Pollutant of Concern

1.2 Describe program status.

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

Impaired waters testing and monitoring for the historically tested basins below has been suspended in order to pursue additional testing throughout the watershed. A consultant has been selected to progressively monitor and test priority and urban outfalls. The Town should have additional results to explore for each reporting period. Attached please find a separate spreadsheet noting screened and tested outfalls. Public Works Facility outfall to East Creek tested semi-annually. Below allowable in COD, TSS, TP, TKN, and Zinc Transfer Station Facility outfall to Spinning Mill Brook tested semi-annually. Below allowable in ,COD, TSS, TP, but exceeds the benchmark for iron. Both facilities have exempted out of other parameters No changes to Management Plan based on monitoring results at this time.

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

2.1 Screening data

Complete the table below for any wet weather sampling completed for outfalls that discharge directly to a stormwater impaired waterbody during the reporting period. Each Annual Report will add on to the previous year's screening data showing a cumulative list of outfall screening data.

Outfall ID	Sample date	Parameter (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	Results	Name of Laboratory (if used)	Follow-up required?*
I2 Soundview Rd	7/6/18	Bacteria, Nitrogen	E. Coli 908 MPN/100ml TN 0.89 mg/L	Environmental Consulting	Yes
I1 Hubbard Rd	7/6/18	Bacteria, Nitrogen	E. Coli 121 MPN/100ml TN 0.62 mg/L	Environmental Consulting	Yes
C2 - 90 Union St	7/6/18	Bacteria, Nitrogen	E. Coli >24196 MPN/100ml TN 0.17 mg/L	Environmental Consulting	Yes
C1 – 18 River St	7/6/18	Bacteria, Nitrogen	E. Coli 6867 MPN/100ml TN 0.90 mg/L	Environmental Consulting	Yes
R1 – 1635 Long Hill Road	7/6/18	Bacteria, Nitrogen	E. Coli 231 MPN/100ml TN 0.38 mg/L	Environmental Consulting	Yes
Transfer Station	11/13/18	Nitrate, TSS, Phosphorous	N 0.11 mg/L TSS 25 mg/L Phosphorous 0.63mg/L	Environmental Consulting	No
Public Works	11/13/18	Nitrate, TSS, Metals, Phosphorous	N 0.28 mg/L, Metals TSS 26 mg/L, 0.05mg/L Phosphorous 0.08mg/L	Environmental Consulting	No
752	10/29/20	E. coli, Total Coliform	6890, >24200 MPN/100mls	Phoenix	Yes
596	10/29/20	Enterococci, Fecal Coliform	8660, 1620 MPN/100mls	Phoenix	Yes
595	10/29/20	Enterococci, Fecal Coliform	12000, 816 MPN/100mls	Phoenix	Yes
566	10/29/20	Enterococci, Fecal Coliform	15500, 3450 MPN/100mls	Phoenix	Yes
552	10/29/20	Enterococci, Fecal Coliform	>24200, >24200 MPN/100mls	Phoenix	Yes

2.2 Credit for screening data collected under 2004 permit

Outfall	Sample date	Parameter (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	Results	Name of Laboratory (if used)	Follow-up required?*
I2 Soundview Road	5/5/2017	Bacteria, Nitrogen	E. Coli 135.4MPN/100ml TN .33 mg/l	Environmental Consulting	Yes
I1 Hubbard Road	5/5/17	Bacteria, Nitrogen	E. Coli 24.3 MPN/100ml TN .23 mg/l	Environmental Consulting	Yes
C2- 90 Union St	5/5/17	Bacteria, Nitrogen	E. Coli 2419.6 MPN/100ml TN .16 mg/l	Environmental Consulting	Yes
C1-18 River St	5/5/17	Bacteria, Nitrogen	E. Coli 1119.9 MPN/100ml TN .72 mg/l	Environmental Consulting	Yes
R1- 1635 Long Hill Road	5/5/17	Bacteria, Nitrogen	E. Coli 2419.6 MPN/100ml TN .74 mg/l	Environmental Consulting	Yes
R2-1640 Little Meadow Rd	5/5/17	Bacteria, Nitrogen	E. Coli 435.2 MPN/100ml TN .59 mg/l	Environmental Consulting	Yes
Transfer Station	11/16/17	Nitrate, Oil, Grease, TSS, Phosphorous	N 1.08mg/L, Oil ND TSS196mg/L Phosphorous.45mg/L	Environmental Consulting	Yes
Public Works	8/18/17	Nitrate, Oil, Grease, Phosphorous, TSS, Metals	N 0.31mg/L Phosphorous 0.57mg/L TSS 419 mg/L, Metals .25 mg/L	Environmental Consulting	Yes

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

Pollutant of concern	Pollutant threshold
Nitrogen	Total N > 2.5 mg/l
Phosphorus	Total P > 0.3 mg/l
Bacteria (fresh waterbody)	<ul style="list-style-type: none"> E. coli > 235 col/100ml for swimming areas or 410 col/100ml for all others Total Coliform > 500 col/100ml
Bacteria (salt waterbody)	<ul style="list-style-type: none"> Fecal Coliform > 31 col/100ml for Class SA and > 260 col/100ml for Class SB Enterococci > 104 col/100ml for swimming areas or 500 col/100 for all others
Other pollutants of concern	Sample turbidity is 5 NTU > in-stream sample

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

Provide the following information for outfalls exceeding the pollutant threshold.

Outfall	Status of drainage area investigation	Control measure implementation to address impairment
Public Works	Outfalls are within pollutant threshold	Filter fabric in the catch basins are changed monthly January to April. Trucks are washed indoors and wash water is pumped off site.
Transfer Station	Outfalls are within pollutant threshold	Filter fabric in the catch basins are changed monthly January to April.

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

Once outfall screening has been completed for at least 50% of outfalls to impaired waters, identify 6 of the highest contributors of any pollutants of concern. Begin monitoring these outfalls on an annual basis by July 1, 2020.

Outfall	Latitude/Longitude	Sample Date	Parameter(s)	Results in MPN/100 mls	Name of Laboratory
752	Lab Reference #	10/29/20	E.coli, Total Coliform	6890, >24200	Phoenix
596	To be corrected	10/29/20	Enterococci, Fecal Coliform	8660, 1620	Phoenix
595		10/29/20	Enterococci, Fecal Coliform	12000, 816	Phoenix
566		10/29/20	Enterococci, Fecal Coliform	15500, 3450	Phoenix
552		10/29/20	Enterococci, Fecal Coliform	>24200, >24200	Phoenix

Part III: Additional IDDE Program Data

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

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

The information below is subject to change as monitoring results become available.

1. Catchment ID (DEEP Basin ID)	2. Category	3. Rank			
5110-00-3-R5	LIS CB Inner - West River, Guilford	1	5108-09-2-R1	LIS CB Inner – East and Neck Rivers	10
5109-01-1	LIS CB Inner – East and Neck Rivers	2	5110-09-1	LIS CB Inner - West River, Guilford	11
5109-00-1	LIS CB Inner – East and Neck Rivers	3	5110-09-1-L1	LIS CB Inner - West River, Guilford	12
5110-00-3-R6	LIS CB Inner - West River, Guilford	4	5109-00-2-R1	LIS CB Inner – East and Neck Rivers	13
5110-00-3-L2	LIS CB Inner - West River, Guilford	5	5108-00-3-L1	LIS CB Inner – East and Neck Rivers	14
5000-27-1	LIS CB Shore - Joshua Cove & Island Bay	6	5110-00-3-R7	LIS CB Inner – West River, Guilford	15
5110-08-1	LIS CB Inner - West River, Guilford	7	5108-01-3-L3	LIS CB Inner – East and Neck Rivers	16
5110-00-3-R4	LIS CB Inner – West River - Guilford	8	5000-24-1	LIS CB Shore – Indian Cove, Guilford	17
5108-12-1-L1	LIS CB Inner - East and Neck Rivers	9	5000-22-1	LIS CB Shore – Guilford Harbor	18
			5000-25-1	LIS CB Shore – Joshua Cove & Island Bay	19

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

Provide sample data for outfalls where flow is observed. Include Pollutant of concern data for outfalls that discharge into stormwater impaired waterbodies.

Screening and sampling is currently under way with a consultant hired by the town. A list of outfalls will be attached and continued data will be updated during each reporting period. Funding for the screening process will be sought annually for continuous progress toward the permit requirements.

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
See Attached											

2.2 Wet weather sample and inspection data

Provide sample data for outfalls and key junction manholes of any catchment area with at least one System Vulnerability Factor. **A consultant has been engaged to conduct wet weather sampling.**

Outfall / Interconnection ID	Latitude / Longitude	Sample date	Ammonia	Chlorine	Conductivity	Salinity	E. coli or Enterococcus	Surfactants	Water Temp	Pollutant of concern
In Progress										

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

3.1 System Vulnerability Factor Summary

For those catchments being investigated for illicit discharges (i.e. categorized as high priority, low priority, or problem) document the presence or absence of System Vulnerability Factors (SVF). If present, report which SVF's were identified. **Screening is currently being conducted. Dry weather has not unveiled any illicit discharges at this time, wet weather sampling** will be underway in the spring.

Outfall ID	Receiving Water	System Vulnerability Factors
Under Review		

Where SVFs are:

1. Any sanitary sewer and storm drain infrastructure greater than 40 years old in medium and densely developed areas.
2. Widespread code-required septic system upgrades required at property transfers (indicative of inadequate soils, water table separation, or other physical constraints of the area).
3. History of multiple local health department or sanitarian actions addressing widespread septic system failures (inadequate soils, water table separation, or other physical constraints of the area).

3.2 Key junction manhole dry weather screening and sampling data

Key Junction Manhole ID	Latitude / Longitude	Screening / Sample date	Visual/ olfactory evidence of illicit discharge	Ammonia	Chlorine	Surfactants

3.3 Wet weather investigation outfall sampling data

Outfall ID	Latitude / Longitude	Sample date	Ammonia	Chlorine	Surfactants

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
none							

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: Matthew Hoey, First Selectman	Print name: Janice Plaziak, Town Engineer
Signature / Date:	Signature / Date:

