

2020 Annual Report – MS4 General Permit

City of Meriden
Meriden, Connecticut

March 2021



Prepared by:



146 Hartford Road
Manchester, CT 06040

MS4 General Permit
City of Meriden 2020 Annual Report
Existing MS4 Permittee
Permit Number GSM 000038
January 1, 2020 – December 31, 2020

This report documents City of Meriden'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	Complete/ Ongoing	See table below for details.	Update and maintain City website to include educational materials.	Meriden Stormwater Committee	Ongoing	Initially completed Jul 1, 2018	
	Complete/ Ongoing	The 2018 Water Quality Report is available.	Distribute educational materials.	Meriden Stormwater Committee	Ongoing	Initially completed Sep 1, 2017	
1-2 Address education/ outreach for pollutants of concern*	Complete/ Ongoing	The City posted educational materials on the City's website addressing impaired waters and stormwater pollutants of concern. (See BMP 1-1 for list of specific items posted.)	Select educational materials appropriate for impaired waters and stormwater pollutants of concern.	Meriden Stormwater Committee	Ongoing	Initially completed Jul 1, 2018	

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
1-3 Work with area organizations and groups	Ongoing	The City has continued phased implementation of the Quinnipiac River Linear Trail. The program includes walking trails with educational resources along the Quinnipiac River. Construction of the next phase began in late spring 2020 and included trail upgrades, riparian plantings in Brookside park, and clearing of brush and debris along Harbor Brook. Plantings in Brookside park are ongoing.	Work with local organizations (QRWA, etc.) to identify public education opportunities and assist with plan implementation.	Meriden Stormwater Committee	N/A	Started Jul 1, 2017 (Ongoing)	Reason for Addition: Organizations outside of the City Departments & Commissions can be good resources for public education & outreach.

Extra space for describing above BMP activities, if needed:

BMP	
1-1 Implement public education and outreach	<p>Educational materials continue to be posted on the City website include the following:</p> <ul style="list-style-type: none"> • Stormwater Management Plan (Storm Water page) • Notification of fines for dumping debris into water body/ storm drain (FAQs page) • Citizen Request Form for illegal dumping (Contact page) • Memo to public that all catch basins discharge to water bodies (Engineering Docs page) • City of Meriden DPW <i>Important Information Guide</i> discusses the following related topics: <ul style="list-style-type: none"> ○ Keeping catch basins and water bodies free of debris ○ Environmental benefits of reduced winter sand use on roads ○ Leaf and Christmas tree pickup / disposal (Winter Safety Info page) <p>2017 Annual Water Quality Report discusses source water and contamination (Meriden Water Division page)</p>

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

- Educate the public on stream channel maintenance taking place in 2021.
- Continue to post stormwater-related articles in the Meriden Department of Health newsletter.
- Continue to collaborate with the local newspaper in order to publish future environmental articles in the Record Journal, social media, and the City website.
- Continue to have the Board of Education integrate topics in the Core Science Curriculum Framework, including those related to water quality, into its school curriculum.
- Continue to work with local organizations (QRWA, etc.) to identify public education opportunities and assist with plan implementation.
- Continue riparian plantings in Brookside Park.
- Sustainable Meriden Program incorporates education and outreach through the Sustainable Meriden internship. Goal to hire intern(s) after pandemic.

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.
Mayor's City's Annual Spring & Fall Cleanups May 4, 2019 September 21, 2019	Open to all City Residents	Littering / Trash Pickup	N/A	Parks & Recreation Public Works Departments
QRWA Bi-Annual River Cleanups (Canceled for 2020 due to COVID-19)	Approximately 50 volunteers expected	Littering / Trash Pickup	N/A	Quinnipiac River Watershed Association
QRWA Facility Environmental Field Trips for Schools (Canceled for 2020 due to COVID-19)	6 field trips reaching approximately 125 students	Water Quality	N/A	Quinnipiac River Watershed Association
Water Safety Courses at Quinnipiac University Fall of 2019	Two 2-day courses of students	Water Safety	N/A	Quinnipiac River Watershed Association
Invasive Plant Removal from Hanover Pond	6 Sessions of 15-20 Volunteers over 4 months with groups of students, educators and the public removed between 1 and 2 tons of invasive water chestnut which Meriden Parks Department disposed of at Meriden DPW composting facilities.	Invasive Plant Removal	N/A	Quinnipiac River Watershed Association, Parks & Recreation Public Works Departments
Litter Control Notification Spring 2019	Provided to golfers where litter issue was occurring	Littering issues at the golf course	N/A	Engineering Department
Presentation on Eliminator Hooded Outlet Pilot Program October 18, 2019	The Community Foundation for Greater New Haven	Pilot Program Status and Results	N/A	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	Complete	The draft Stormwater Management Plan was made available to the public: <ul style="list-style-type: none"> An electronic copy was posted on the City's website. Hard copies were made available at City Hall. 	Make draft Stormwater Management Plan available electronically on the City website and paper copies available in City Hall. Publish notice of availability on website or local newspaper.	City Engineer	Apr 3, 2017	Apr 3, 2017	
	Complete/Ongoing	The final Stormwater Management Plan was made available to the public: <ul style="list-style-type: none"> An electronic copy was posted on the City's website. Hard copies were made available at City Hall. 	Make final Stormwater Management Plan available electronically on the City website and paper copies available in City.	City Engineer	Ongoing	Initially completed Jul 1, 2017	
2-2 Comply with public notice requirements for Annual Reports	Complete	A public notice was posted to the City's website as well as the <i>Record Journal</i> on January 31, 2021. The draft Annual Report was made available to the public starting on February 15, 2021.	Make draft Annual Report available electronically on the City website and paper copies available in City Hall. Publish notice of availability on website or local newspaper.	City Engineer	Feb 15, 2021	Feb 15, 2021	

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
2-2 Comply with public notice requirements for Annual Reports (Continued)	In Progress	The City will finalize the 2020 Annual Report after the public comment period and will submit it to DEEP, as well as post it on the City's website by the April 1, 2021 deadline.	Make final Annual Report available electronically on the City website.	City Engineer	Apr 1, 2021	Anticipate completing by Apr 1, 2021	
2-3 Work with area organizations and groups	Ongoing	The City conducts annual meetings of the Stormwater Committee.	Conduct regular meetings of the Meriden Stormwater Committee	City Engineer, Meriden Stormwater Committee	N/A	Started Jul 1, 2017 (Ongoing)	Reason for addition: Committee will represent City Departments & Commissions with stake in stormwater mgmt.
	Ongoing	The City normally works with QRWA on the Annual Downriver Classic Canoe & Kayak Race as well as the annual spring and fall clean-ups on the Quinnipiac River. These activities will continue moving forward after the pandemic.	Work with local organizations (QRWA, etc.) to identify public involvement opportunities and assist with plan implementation.	City Engineer, Meriden Stormwater Committee	N/A	Started Jul 1, 2017 (Ongoing)	Reason for addition: Organizations outside of the City Departments & Commissions can be good resources for public involvement.

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

- Continue to conduct annual stormwater committee meetings to review SMP implementation progress.
- Continue to work with the partnership of governmental agencies, businesses, concerned citizens and non-profit organizations such as the QRWA and school system to participate in their environmental work as well as to sponsor and support clean-up projects and environmental events.
- Continue to collaborate with QRWA through the Linear Trail volunteers on the development of environmental education classes at these locations.
- Provide public notice of annual report.

2.3 Public Involvement/Participation reporting metrics

Metrics	Implemented	Date	Posted
Availability of the Stormwater Management Plan to public	Yes	Mar 30, 2017	www.cityofmeriden.org/Content/Storm_Water_Management/
Availability of Annual Report announced to public	Yes	Jan 31, 2020	<i>Record Journal</i> and www.cityofmeriden.org/Content/Storm_Water_Management/

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

3.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
3-1 Develop written IDDE program	In progress	The City is in process of completing written IDDE program using the CT IDDE program template.	Develop written plan of IDDE program	Engineering	Jul 1, 2018	Completed Jul 14, 2020	
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas	In progress	The City has contracted with a consultant to update existing GIS mapping to include all municipal stormwater outfalls in the City.	Update GIS mapping to include all stormwater outfalls in the municipality.	Engineering, IT	Jul 1, 2019	Anticipate completing by Jul 1, 2021	
	In progress	The City has contracted with a consultant to update the list of all municipal stormwater outfalls in the City.	Develop a list (database or spreadsheet) of stormwater outfalls in municipality.	Engineering, IT	Jul 1, 2019	Anticipate completing by Jul 1, 2021	
	In progress	The City has contracted with a consultant to update GIS mapping to meet the General Permit.	Update GIS storm system mapping in priority areas to include required elements listed in Appendix B of the General Permit.	Engineering, IT	Jul 1, 2019	Anticipate completing by Jul 1, 2021	
3-3 Implement citizen reporting program	Complete	The City continues to maintain their existing web form (Citizen Service Request Form) for reporting.	Continue to implement a citizen reporting 'hotline' and advertise it on the City website and in municipal offices.	Engineering, Legal Counsel, City Council	Jul 1, 2017	Jul 1, 2017	
3-4 Establish legal authority to prohibit illicit discharges	In Progress	The City has started reviewing existing Discharge Limitations Ordinance for revision.	Review City's existing Discharge Limitations Ordinance and revise, as necessary.	Engineering, Legal Counsel, City Council	Jul 1, 2018	Anticipate completing by Dec 31, 2021	

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
3-5 Develop record keeping system for IDDE tracking	Complete	The City has developed an IDDE tracking recordkeeping system.	Develop IDDE tracking recordkeeping system.	Engineering	Jul 1, 2017	Jul 1, 2017	
3-6 Address IDDE in areas with pollutants of concern	In Progress	Where a well tested positive for E. Coli, local septic systems were investigated. There was no evidence to support septic system failures as a cause.	Identify areas with high potential for septic system failure.	Health and Human Services, Engineering	Not specified	Anticipated completion by the end of the permit period.	
3-7 Conduct SSO inventory	Complete	The City has identified known SSOs that occurred as far back as 7/18/2016. Records prior to that event were documented on paper and lacked detailed information as to what did and did not discharge to the MS4.	Review City records to identify any known locations where SSOs have discharged to the MS4 within the previous 5 years (7/1/12 – 6/30/17).	Engineering	Oct 29, 2017	Feb 7, 2019	Reason for addition: Part of the IDDE Program.
3-8 Assess and prepare a priority ranking of catchments	Complete	The City's consultant prepared a priority ranking of catchments.	Classify each catchment within priority areas into an excluded, problem, high priority, or low priority catchment. Rank catchments within each category (except excluded catchments) based on screening factors found on page 6 & 7 in Appendix B of the General Permit.	Engineering, Department of Public Works	Jul 1, 2019	Aug 5, 2019	Reason for addition: Part of the IDDE Program.

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
3-9 Conduct outfall and interconnection screening and sampling	In Progress	The City has contracted with a consultant to do this work.	Conduct dry weather screening and sampling (where flowing) of every MS4 outfall and interconnection (except for excluded and Problem Catchments)	Engineering, Department of Public Works	Jul 1, 2019	Anticipate completing by Jul 1, 2021	Reason for addition: Part of the IDDE Program.
3-10 Conduct catchment investigations and remove illicit discharges	Not Started	The City will be contracting with a consulting firm to complete this task.	Evaluate catchments for System Vulnerability Factors and begin catchment investigations.	Engineering, Department of Public Works	Jul 1, 2018	Anticipate completing by Jul 1, 2022	Reason for addition: Part of the IDDE Program.
	Not Started	The City will be contracting with a consulting firm to complete this task.	Where System Vulnerability Factors are present, conduct manhole inspections. Isolate and verify sources. Remove identified illicit discharges and conduct confirmatory outfall screening.	Engineering, Department of Public Works	Jul 1, 2020	Anticipate completing by Jun 1, 2022	Reason for addition: Part of the IDDE Program.

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

- Continue implementing written IDDE program.
- Adopt Illicit Discharge Ordinance.
- Evaluate catchments for System Vulnerability Factors, begin dry weather outfall screening, and begin catchment investigations with the assistance of a consultant.
- Finalize map of stormwater drainage structures and piping network.
- Continue to maintain the Citizen Service Request Form to respond to illicit discharges.
- Continue to assess, and improve if necessary, the process and procedures for logging and responding to complaints associated with illicit discharges.
- Incorporate IDDE topics into the City's annual stormwater training program. Provide employee training annually.

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

Date of Report	Location / suspected source	Response taken
4/17/2019	90 Hillside Avenue / Sewage overflow from damaged sewer lateral caused by installation of telephone pole.	4/19/2019 – Eversouce repaired the damaged sewer lateral.
6/20/2019	29 Fols Avenue / Pool water was pumped into Baldwin Pond.	6/20/2019 – Both Zoning and the Health Department talked to the homeowner.
6/20/2019	121 Johnson Avenue / Sewer overflow from a damaged sewer lateral.	7/15/2019 – Homeowner had sewer lateral was repaired.
7/31/2019	203 Hall Avenue / Strong fuel odor from catch basins. No noticeable product. Suspected cause is old spill flushed through by rain.	8/9/2019 – City cleaned he catch basins.
9/23/2019	380 Crown Street / Sewer backup at older bulding with discharge from Crown Street Manhole.	12/6/2019 – Curtis Home had sewer line repaired.
10/28/2019	311 West Main Street / Grease residue on catch basin grate.	10/20/2019 – Health Department spoke with owner who claims that he does not dump grease into the catch basin (he has a grease dumpster). Health Department asked owner to make sure employees are not dumping into the catch basin.
12/23/2019	Intersection of Myrtle and Arch Parkway / Sewer pipe blockage from roots	12/23/2019 – WPCF staff relieved the blockage and cleaned the area.
4/13/2020	Wendy's 865 East Main Street / Grease dumped into storm drain	4/14/2020 – Wendy's coordinated storm drain to be cleaned.
5/26/2020	31 Randolph Avenue / Kitchen waste piping connected into storm drainage piping in 2 units	10/20/2020 – Owner redirected the offending piping into the sanitary sewer piping.
6/4/2020	173 Knobb Hill / Paint dumped into storm drain	6/24/2020 – Owner sent notification not to dump anything into storm drains.
11/17/2020	45 Meadow Way / Human waste alleged to be dumped into storm drain due to no water service	12/30/2020 – Owner sent notification not to dump anything into storm drains.
11/24/2020	160 West Main Street / Sanitary sewer piping from 6 residential units and 3 commercial units connected to storm drain.	12/9/2020 – Owner coordinated contractor to connect sanitary sewer piping into City sanitary sewer main.

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 (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)
Taco Bell 760 E Main St	4/13/2015	MS4	Unknown	Employees dumping grease in catch basin.	4/13/2015 – Health Department had Taco Bell hire a company to clean out the catch basin.	N/A
31 Britannia St	4/22/2015	MS4	Unknown	Owner pumped sewage into storm drain from back-up in basement.	4/22/2015 – Owner told and stopped pumping sewage into storm drain and cleared sewer line.	N/A
Xing Long 502 West Main St	5/1/2015	MS4	Unknown	Owner he admitted to dumping mop water in catch basin.	5/1/2015 – Health Department told him he cannot dump in catch basin and the shopping center owner had the catch basin cleaned out.	N/A
Gourmet Chinese Kitchen 979 Broad St	4/1/2016	MS4	Unknown	Employees dumping mop water into storm drain	4/1/2016 – Health Department told owner they cannot dump mop water down storm drain.	N/A
37 Randolph Ave	7/10/2015	MS4	Unknown, Small Amount	Someone connected house sewer to house storm drain line that handled gutters, minor over flow into road then into storm drain.	8/3/2015 – Property owner was able to repair original sewer line and sewage now going to sanitary sewer.	N/A
290 Pratt St	7/18/2016	MS4 to Harbor Brook	Unknown	Blockage in sanitary sewer line caused an overflow into the storm drain leading to Harbor Brook.	7/18/2016 – WPCF cleared blockage that caused overflow. Under normal conditions sewage goes to sanitary sewer. 5/19/2017 – Owner had the connection to storm drain system removed. There were 2 separate overflow connections.	N/A
302 Center St	12/29/2017	MS4	Unknown	Sewer overflowed down sidewalk into road and storm drain.	12/29/2017 – Owner was ordered to clear sewer line (completed 12/29/17).	N/A
200 Pond View Drive	4/4/2018	MS4	Unknown	Oil from private plow truck spilled into catch basin.	4/4/2018 – Owner had storm drain cleaned out.	N/A
Gilbert Road near Manhole #39-51	5/31/2018	MS4	Approximately 100 gallons	Sanitary sewer overflow.	5/31/2018 – Blockage was cleared, area of spill was cleaned and bleached, and the bleach was vacced up and disposed of at WPCF.	N/A
Intersection of Hanover and Cook Avenue	7/7/2018	MS4	Approximately 50 gallons	Sanitary sewer overflow.	7/7/2018 – Blockage was cleared, area of spill was cleaned and bleached, and the bleach was vacced up and disposed of at WPCF.	N/A

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)
51 Prescott Street	7/24/2018	MS4	Unknown	Exposed and broken sewer pipe.	8/9/2018 – A health order was issued and the pipe was replaced.	N/A
Prescott Road near Manhole #19-162	8/8/2018	MS4	Approximately 50 gallons	Sanitary sewer overflow.	8/8/2018 – Blockage was cleared, area of spill was cleaned and bleached, and the bleach was vacced up and disposed of at WPCF.	N/A
198 West Main Street	8/29/2018	MS4	Unknown	Employee dumping of unknown substance into catch basin.	829/2018 – CT DEEP had the manager of the Dry Cleaning business hire someone to cleanout the catch basin. The manager also spoke with the employees about not dumping anything down catch basin.	N/A
15 Kickory Street	11/28/2018	MS4	Unknown	Sewage overflow from clogged or brokwn vent pipe.	12/4/2018 – A health order was issued and the the pipe was fixed.	N/A
90 Hillside Avenue	4/17/2019	MS4	Unknown	Sewage overflow from damaged sewer lateral caused by installation of telephone pole. / Eversource	4/19/2019 – Eversouce repaired the damaged sewer lateral.	N/A
29 Fols Avenue	6/20/2019	Baldwin Pond	Unknown	Pool water was pumped into Baldwin Pond. / Homeowner	6/20/2019 – Both Zoning and the Health Department talked to the homeowner.	N/A
121 Johnson Avenue	6/20/2019	MS4	Unknown	Sewer overflow from a damaged sewer lateral. / Homeowner	7/15/2019 – Homeowner had sewer lateral was repaired.	N/A
203 Hall Avenue	7/31/2019	MS4	Unknown	Strong fuel odor from catch basins. No noticeable product. Suspected cause is old spill flushed through by rain. / Unknown	8/9/2019 – City cleaned he catch basins.	N/A
380 Crown Street	9/21/2019		1 - 50 gallons			
380 Crown Street	9/23/2019	MS4	Unknown	Sewer backup at older bulding with discharge from Crown Street Manhole. / Curtis Home	12/6/2019 – Curtis Home had sewer line repaired.	N/A
311 West Main Street	10/28/2019	MS4	Unknown	Grease residue on catch basin grate. / Napoli Pizza	10/20/2019 – Health Department spoke with owner who claims that he does not dump grease into the catch basin (he has a grease dumpster). Health Department asked owner to make sure employees are not dumping into the catch basin.	N/A

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)
Intersection of Myrtle and Arch Parkway	12/23/2019	MS4 (Connected to Harbor Brook)	51 - 500 gallons	Sewer pipe blockage from roots / WPCF	12/23/2019 – WPCF staff relieved the blockage and cleaned the area.	N/A
599 West Main Street	3/24/2020	Unknown	1-50 fallons	Surcharging manhole from storm event	WPCF staff cleaned the area	N/A
216 Dogwood Dr	5/11/2020	Unnamed Stream	0-500 gallons	Sewer line blockage	5/11/2020 –WPCF staff relieved the blockage and cleaned the area	N/A

*Illicit discharge records prior to July 1, 2014 are inaccessible due to a transition to new software. SSOs prior to 2016 are documented on paper and lack information as to weather or not there was a discharge to the MS4.

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

Illicit discharge reports are tracked through the Citizen Service Request Form. Reports are sent to the Director of Public Works. DPW investigates any reports received and if illicit discharges are found. DPW works with Land Use, the Town Sanitarian, and Code Enforcement to eliminate the discharge.

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
There were no known cases of septic system failures discharging to surface water or the MS4 during the reporting period.		

3.7 IDDE reporting metrics

Metrics	
Estimated or actual number of MS4 outfalls	528
Estimated or actual number of interconnections	Approx. 54
Outfall mapping complete	94%
Interconnection mapping complete	50%
System-wide mapping complete (detailed MS4 infrastructure)	75%
Outfall assessment and priority ranking	100%
Dry weather screening of all High and Low priority outfalls complete	90%
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).

- IDDE topics will be incorporated into the City's annual stormwater training program.

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	In Progress	The City worked with a consultant to update their land use regulations which was completed in October 2020. The City is in the process of reviewing the recommendations. As part of this process, the City is welcoming QRWA, developers, and concerned citizens to participate. Regular meetings were delayed due to the pandemic but are planned to begin in 2021.	Review and update, as necessary, existing land use regulations and implementation policies for compliance with the MS4 General Permit construction site stormwater runoff control requirements.	Engineering, Planning Division, Legal Counsel	Jul 1, 2019	Anticipate completing by Nov 1, 2021	
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval	Complete	The City continues to follow the interdepartmental coordination procedures as described in Section 5.2 of the SWMP.	Implement interdepartmental coordination procedures as described in Section 5.2 of the SWMP.	Planning Division, Engineering, Planning Commission, Inland Wetlands & Watercourse Commission	Ongoing	Jul 1, 2017	
4-3 Review site plans for stormwater quality concerns	Complete/ Ongoing	<ul style="list-style-type: none"> The City continues conducts site plan reviews for all projects subject to the land use regulations. 29 applications were review in 2019. 	Complete site plan reviews for all projects subject to the land use regulations listed in BMP 4-1.	Planning Division, Engineering, Planning Commission, Inland Wetlands & Watercourse Commission	Ongoing	Jul 1, 2017	

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
4-4 Conduct site inspections	Complete/ Ongoing	See table below for details.	Conduct inspections and enforcement to assess and ensure the adequacy of the installation, maintenance, operation, and repair of construction and post-construction control measures.	Planning Division, Engineering	Ongoing	Jul 1, 2017	
4-5 Implement procedure to allow public comment on site development	Completed	The City's land use application review process continues to include provisions for public review and comment. The City's stormwater FAQ webpage continues to provide notice of Meriden's 'hotline' for stormwater related comments.	Provisions for public review and comment in land use application review process. Notice of Meriden's 'hotline' for stormwater related comments on the municipal stormwater website.	Planning Division	Ongoing	Jul 1, 2017	
4-6 Implement procedure to notify developers about DEEP construction stormwater permit	Completed	The City continues to inform developers/contractors of their potential obligation to register under the DEEP construction general permit and to provide a copy of the Storm Water Pollution Control Plan to Meriden upon request.	Inform developers/contractors of their potential obligation to register under the DEEP construction general permit and to provide a copy of the Storm Water Pollution Control Plan to Meriden upon request.	Planning Division	Ongoing	Jul 1, 2017	

Extra space for describing above BMP activities, if needed:

BMP	
4-4 Conduct site inspections	<ul style="list-style-type: none"> • The City continues conducts inspections and enforcement to assess and ensure the adequacy of the installation, maintenance, operation, and repair of construction and post-construction control measures. • 80 site inspections were performed in 2020. • 1 Cease & Correct order was issued in 2020.

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

- | |
|--|
| <ul style="list-style-type: none"> • Review existing land use regulations to determine whether updates are required to meet the construction site runoff control legal mechanism. • Continue departmental coordination. • Continue to review site plans and conduct construction site inspections. • Continue to document the number (per permit year) of construction plan submittals, construction startups, and construction inspections and report these numbers in the annual report. |
|--|

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	In Progress	The City worked with a consultant to update their land use regulations which was completed in October 2020. The City is in the process of reviewing the recommendations. As part of this process, the City is welcoming QRWA, developers, and concerned citizens to participate. Regular meetings were delayed due to the pandemic but are planned to begin in 2021.	Review and update, as necessary, existing land use regulations and implementation policies for compliance with the General Permit post-construction stormwater requirements.	Engineering, Planning Division, Legal Counsel	Jul 1, 2021	Anticipate completing Nov 1, 2021	

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects	In Progress	The City worked with a consultant to update their land use regulations which was completed in October 2020. The City is in the process of reviewing the recommendations. As part of this process, the City is welcoming QRWA, developers, and concerned citizens to participate. Regular meetings were delayed due to the pandemic but are planned to begin in 2021.	Review and update, as necessary, current regulations to identify, reduce, or eliminate existing regulatory barriers to implementation of LID and runoff reduction practices.	Engineering, Planning Division, Legal Counsel	Jul 1, 2021	Anticipate completing Nov 1, 2021	
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects (Continued)	Not Started		Complete plan reviews and ensure compliance for all projects subject to the legal authority and/or guidelines listed in BMP 5-1.	Planning Division, Engineering, Planning Commission, Inland Wetlands & Watercourse Commission	Jul 1, 2021	Anticipate completing Nov 1, 2021	
5-3 Identify retention and detention ponds in priority areas	Complete	A total of 36 detention/retention ponds have been identified, including those that are privately owned and operated.	Identify stormwater basins and treatment systems in priority areas and include them in GIS mapping.	Engineering	Jul 1, 2019	Feb 11, 2019	

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
5-4 Implement long-term maintenance plan for stormwater basins and treatment structures	Completed		Develop a long-term maintenance plan for any retention/detention basins and stormwater treatment structures owned by the City or on a City easement and installed within the priority area. (None exist currently.)	Engineering	Ongoing beginning Jul 1, 2019	January 27, 2021	
	Ongoing/ Annually		Implement maintenance plan including annual inspection of retention / detention basins and stormwater treatment structures and removal of accumulated sediment and pollutants.	Engineering, Department of Public Works	Annually	Annually	
5-5 DCIA mapping	Not Started		Calculate the Directly Connected Impervious Area (DCIA) of outfall catchment areas using guidance provided by DEEP and UConn CLEAR.	Engineering, Planning Division	Jul 1, 2020	Completed June 29, 2020	
	Not Started		Revise DCIA estimate as development, redevelopment, or retrofit projects effectively add or remove DCIA.	Engineering, Planning Division	Annually beginning Jul 1, 2021	Anticipate completing annually beginning Jul 1, 2021	
5-6 Address post-construction issues in areas with pollutants of concern	Not Started		Address erosion and sediment problems noted during inspections conducted under Item 5-3 through the retrofit program developed under BMP 6-7.	Engineering, Department of Public Works	Not specified	Anticipate completion by the end of the permit period.	

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

- Review and update existing land use regulations and policies with the assistance of a consultant.
- Continue to implement procedures for addressing post construction BMPs for residential and commercial projects.
- Continue to require the recording of stormwater maintenance agreements on the City's Land Records.
- Continue to record the number (per permit year) of stormwater structures installed in the City and report this number in their Phase II annual report.

5.3 Post-Construction Stormwater Management reporting metrics

Metrics	
Baseline (2012) Directly Connected Impervious Area (DCIA)	1,817 acres
DCIA disconnected (redevelopment plus retrofits)	N/A
Retrofits completed	N/A
DCIA disconnected	N/A
Estimated cost of retrofits	N/A
Detention or retention ponds identified	36 – Includes privately owned/operated

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

Baseline DCIA was estimated from high-resolution impervious cover and land use/cover data available from UConn NEMO and empirical equations (Sutherland Equations) relating DCIA and Total Impervious Area (TIA). The DCIA estimates were developed at the CTDEEP Local Basin scale.

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	Complete/ Ongoing	City staff members regularly receive training on topics including, but not limited to, hazardous materials and spill containment, health and safety, and winter road salt application.	Continue City employee training program. Building on the City's current program to increase awareness of water quality issues.	Department of Public Works	Ongoing	Initially completed Jul 1, 2017	
6-2 Implement MS4 property and operations maintenance	Complete	The City continues to implement their Integrated Pest Management Plan, which includes soil testing to determine the proper type and amount of fertilizers to be used.	Implement turf/fertilizer management BMPs for parks and open space.	Department of Public Works, Parks and Recreation	Ongoing beginning Jul 1, 2018	Feb 2017	
	Complete/ Ongoing	A City ordinance continues requires the prompt removal of all solid waste and litter left by dogs or other animals on a public street, sidewalk, public property, or private property owned by another person before leaving the premises, and the disposal of the solid waste and/or litter in a sanitary manner. Pet waste stations are located on both sections of the Linear Trail, and along the Quinnipiac River and Sodom Brook trails.	Implement pet waste education program and maintain signage, baggies, and disposal receptacles in areas where pet walking is common.	Department of Public Works, Parks and Recreation, Meriden Stormwater Committee	Jul 1, 2018	Jul 1, 2017	

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
6-2 Implement MS4 property and operations maintenance (Continued)	Complete/ Ongoing	The City continues to maintain signage to discourage feeding waterfowl.	Maintain signage and implement other waterfowl management BMPs in targeted areas, as warranted.	Department of Public Works, Parks and Recreation	Jul 1, 2018	Jul 1, 2017	
	In Progress	The City implements Stormwater Pollution Prevention Plans (SWPPPs) for the Transfer Station, the Highway Facility, and the Water Pollution Control Facility. Formal facility evaluations are on-going.	Evaluate other municipal buildings and facilities for spill prevention and pollution prevention practices and implement additional BMPs as necessary.	Department of Public Works	Jul 1, 2018	Anticipate completing by Jul 1, 2021	
	Ongoing		Evaluate and modify, as necessary, municipal vehicle and equipment parking, fueling, and maintenance practices.	Department of Public Works	Jul 1, 2018	Ongoing	
	Complete/ Ongoing	The City continues to require residents to place leaf waste in paper bags for municipal pick-up and disposal, thus limiting the amount of yard waste that is deposited in the municipal storm sewer system. The Department of Public Works also continues to street sweep prior to impending storms in the fall to further reduce the amount of leaves and yard waste that enters the storm sewer system.	Continue current leaf management program.	Department of Public Works, Parks and Recreation	Jul 1, 2018	Jul 1, 2017	

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
6-3 Implement coordination with interconnected MS4s	Ongoing	The City continues to coordinate with neighboring municipalities as-needed.	Coordinate with neighboring municipalities, institutions, and DOT regarding stormwater management program activities associated with adjacent MS4s.	Department of Public Works	Not specified	Ongoing	
6-4 Develop/implement program to control other sources of pollutants to the MS4	In Progress	The City is retrofitting catch basins with hooded outlets. The City evaluated between 40 and 50 catch basins before selecting 10 candidates for a trial run in 2019. In 2020 4 additional hooded outlets were ordered and 4 more are planned. The areas of focus are within catchments that discharge to Harbor Brook, Sodom Brook, and Quinnipiac River.	Control through IDDE program, water quality monitoring, the City's Discharge Limitations Ordinance, and targeted education and outreach to commercial, industrial, municipal, institutional facilities owners/ operators (see BMP 1-1).	Meriden Stormwater Committee	Not specified	Anticipate completing by Jul 1, 2021	
6-5 Evaluate additional measures for discharges to impaired waters*	Not Started		Implement the measures and procedures described in Section 7.2 of the SWMP including those measures to address stormwater pollutants of concern.	Department of Public Works, Parks and Recreation	Not specified	Anticipate completing by the end of the permit.	
6-6 Track projects that disconnect DCIA	Ongoing		Annually track total acreage of DCIA that is disconnected as a result of redevelopment or retrofits (see BMPs 5-4 and 6-7)	Planning Commission, Engineering	Ongoing	Ongoing	

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
6-7 Implement infrastructure repair/rehab program	Ongoing	As funding permits, the City maintains the storm sewer system as part of its infrastructure maintenance program. The City replaces and/or repairs about 100 catch basins a year.	Repair, rehabilitate, or retrofit MS4 infrastructure (e.g., conveyances, structures, outfalls) as needed in a timely manner	Engineering	Jul 1, 2021	Ongoing	The City installed a trash rack at the drainage inlet on Alcove Street where clogging issues were typical. The trash rack is cleared prior to major storms. The City also replaced a section of pipe and regrade the drainage channel between Maple Avenue and Boylston Street.
6-8 Develop/implement plan to identify/prioritize retrofit projects	Ongoing	Consultant under contract to develop retrofit plan. After an initial desktop screening, 30 sites were selected for further evaluation. Site visits are planned for 2021. The retrofit plan is anticipated to be completed in July 2021.	Develop retrofit plan and list of priority sites	Engineering	Jul 1, 2020	Anticipate completing by Jul 1, 2021	
6-9 Implement retrofit projects to disconnect 2% of DCIA	Not Started		Disconnect 1% per year of Meriden's DCIA from the MS4	Engineering	Jul 1, 2022	Anticipate completing by Jul 1, 2022	
6-10 Develop/implement street sweeping program	Complete/ Ongoing	The City has prepared written Operation and Maintenance Procedures to address catch basin inspection and cleaning, street and parking lot sweeping, and winter road maintenance activities to reduce the discharge of pollutants to the MS4.	Continue to inspect and sweep all municipally-owned or –operated streets and parking lots.	Department of Public Works	Ongoing beginning Jul 1, 2017	Jul 1, 2017	The City continues to sweep all streets at a minimum frequency of once per year beginning in the spring to remove winter road sand and debris.

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
6-11 Develop/implement catch basin cleaning program	Complete/ Ongoing	The City has prepared written Operation and Maintenance Procedures to address catch basin inspection and cleaning, street and parking lot sweeping, and winter road maintenance activities to reduce the discharge of pollutants to the MS4.	Inspect and clean catch basins	Department of Public Works	Ongoing beginning Jul 1, 2020	Ongoing	The City continues to clean catch basins and drainage lines during the spring, summer, and fall of every year. In addition to general cleaning, catch basins are rebuilt or otherwise repaired by the City as needed.
	Complete/ Ongoing	Catch basins receiving complaints of poor drainage are prioritized. Inspections emphasize areas where more frequent sweeping is required.	Develop a plan for optimizing catch basin cleaning (i.e., reduced frequency in certain areas) based on inspection findings	Department of Public Works	Ongoing beginning Jul 1, 2020	Ongoing	
6-12 Develop/implement snow management practices	Complete/ Ongoing	The City has prepared written Operation and Maintenance Procedures to address catch basin inspection and cleaning, street and parking lot sweeping, and winter road maintenance activities to reduce the discharge of pollutants to the MS4.	Implement practices for deicing material management and snow and ice control	Department of Public Works	Ongoing beginning Jul 1, 2018	Jul 1, 2017	During the winter months, the City continues to use environmentally responsible salt application practices. The City currently stores salt in an enclosed building.

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

- Complete stormwater retrofit plan and begin plan implementation.
- Continue to document pertinent maintenance/cleaning operations.
- Continue to maintain a list of complaints that it receives regarding road and highway maintenance concerns.
- Continue to conduct employee training.
- Continue to inspect the Central Maintenance Garage monthly and maintain records of each inspection.
- Inspect catch basins when they are cleaned and document the inspection findings.
- Aside from municipal facilities with existing SWPPPs, evaluate other municipal buildings and facilities for spill prevention and pollution prevention practices and implement additional BMPs as necessary.
- Evaluate and modify, as necessary, municipal vehicle and equipment parking, fueling, and maintenance practices.

6.3 Pollution Prevention/ Good Housekeeping reporting metrics

Metrics	
Employee training provided for key staff	Delayed due to Covid-19
Street sweeping	
Curb miles swept	380 miles
Volume (or mass) of material collected	694.61 tons*
Catch basin cleaning	
Total catch basins in priority areas	Estimated 5,000
Total catch basins in MS4	5,048*
Catch basins inspected	250
Catch basins cleaned	200
Volume (or mass) of material removed from all catch basins	694.61 tons*
Volume removed from catch basins to impaired waters (if known)	Unknown
Snow management	
Type(s) of deicing material used	Salt, sand, and salt brine
Total amount of each deicing material applied	4,500 tons salt 250 tons sand 50,000 gallons salt brine
Type(s) of deicing equipment used	Plow trucks
Lane-miles treated	190 miles
Snow disposal location	Miller Street Parking Lot
Staff training provided on application methods & equipment	None during the reporting year
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)	Approximately 3.5 acres
Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems)	
Cost of mitigation actions/retrofits	Not yet determined

*Catch basin and street sweepings are combined.

**Number of catch basins owned by the City.

6.4 Catch basin cleaning program

Provide any updates or modifications to your catch basin cleaning program

The City of Meriden performs routine inspection, cleaning, and maintenance of the approximately 5,000 catch basins located throughout the City. Catch basin inspection and cleaning is conducted annually in the spring, summer, and fall. The City developed a catch basin cleaning schedule, with more frequent inspection and cleaning occurring at catch basins with known heavier sediment and debris loads and drainage problems. Catch basins near priority waterbodies and construction areas are also prioritized.

The City will implement the following catch basin inspection and cleaning procedures to reduce the discharge of pollutants from the MS4:

- Continue to identify catch basins that require more frequent cleaning based on visual inspection at the time of cleaning.
- Catch basins with known heavier sediment and debris loads or drainage problems will be cleaned more frequently.
- Catch basins in areas that drain to impaired waters and near construction activities (roadway construction, residential, commercial, or industrial development or redevelopment) or high-use areas should be inspected and/or cleaned more frequently if inspection finds excessive sediment or debris loadings.
- If a catch basin sump is more than 50 percent full during two consecutive inspections, document the findings, investigate the contributing drainage area for sources of excessive sediment loading, and, if possible, address the contributing sources. If no contributing sources are found, increase the inspection and cleaning frequency.
- Street sweeping performed on an appropriate schedule will reduce the amount of sediment, debris, and organic matter entering the catch basins, which will in turn reduce the frequency with which they need to be cleaned.

6.5 Retrofit program

Briefly describe the Retrofit Program identification and prioritization process, the projects selected for implementation, the rationale for the selection of those projects and the total DCIA to be disconnected upon completion of each project.

The City is working with its consultant to prepare a stormwater retrofit plan, which will be completed in 2021. The retrofit plan will identify site-specific retrofit projects at City-owned properties and within the public right-of-way based on desktop screening of feasibility factors and field assessments of high priority sites. The plan will also identify anticipated reductions in DCIA resulting from the proposed retrofits as well as a plan to phase the retrofits over time to meet the City's DCIA reduction goals.

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

N/A

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

N/A

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. This data is available on the MS4 map viewer: <http://s.uconn.edu/ctms4map>.

Nitrogen/ Phosphorus Bacteria Mercury Other Pollutant of Concern
 (Turbidity and PCBs)

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.

All waterbodies in the state are subject to the Northeast Regional Mercury TMDL, however no specific monitoring or sampling is required in association with this TMDL.

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

2.1 Screening data

Complete the table below for any outfalls screened 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?
We have completed wet weather sampling of nearly 100 outfalls that discharge to impaired waters. Approximately 45 outfalls still need to be sampled. See attached table of Outfall Screening Data.					
OF-601	9/12/2019	Bacteria	E-coli, Recal Coliform and Total Coliform were found to be present >24,200 col/100ml	Phoenix Environmental	Yes

2.2 Credit for screening data collected under 2004 permit

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

Outfall	Sample date	Parameter (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	Results	Name of Laboratory (if used)	Follow-up required?
Hanover Ave & Park Place (754818.30, 982130.19)	10/7/2009	E. Coli	6790 MPN/100 mL	Phoenix Environmental	Yes
East Main St & Research Pwy (752283.58, 997431.99)	10/7/2009	E.Coli	1330 MPN/100 mL	Phoenix Environmental	Yes
Cook Ave & Summer St (754000.37, 984145.79)	10/7/2009	E. Coli	5480 MPN/100 mL	Phoenix Environmental	Yes
Hanover Ave & Park Place (754818.30, 982130.19)	11/4/2010	E. Coli	8660 MPN/100 mL	Phoenix Environmental	Yes
East Main St & Research Pwy (752283.58, 997431.99)	11/4/2010	E.Coli	1040 MPN/100 mL	Phoenix Environmental	Yes
Cook Ave & Summer St (754000.37, 984145.79)	11/4/2010	E. Coli	>24200 MPN/100 mL	Phoenix Environmental	Yes
Hanover Ave & Park Place (754818.30, 982130.19)	10/19/2011	E. Coli	760 MPN/100 mL	Phoenix Environmental	Yes
East Main St & Research Pwy (752283.58, 997431.99)	10/19/2011	E.Coli	460 MPN/100 mL	Phoenix Environmental	Yes
Cook Ave & Summer St (754000.37, 984145.79)	10/19/2011	E. Coli	3280 MPN/100 mL	Phoenix Environmental	Yes
Hanover Ave & Park Place (754818.30, 982130.19)	11/24/2014	E. Coli	1500 MPN/100 mL	Phoenix Environmental	Yes
East Main St & Research Pwy (752283.58, 997431.99)	11/24/2014	E.Coli	60 MPN/100 mL	Phoenix Environmental	No
Cook Ave & Summer St (754000.37, 984145.79)	11/24/2014	E. Coli	960 MPN/100 mL	Phoenix Environmental	Yes
Hanover Ave & Park Place (754818.30, 982130.19)	9/10/2015	E. Coli	5170 MPN/100 mL	Phoenix Environmental	Yes
East Main St & Research Pwy (752283.58, 997431.99)	9/10/2015	E.Coli	690 MPN/100 mL	Phoenix Environmental	Yes
Cook Ave & Summer St (754000.37, 984145.79)	9/10/2015	E. Coli	15530 MPN/100 mL	Phoenix Environmental	Yes
Hanover Ave & Park Place (754818.30, 982130.19)	9/19/2016	E. Coli	2850 MPN/100 mL	Phoenix Environmental	Yes

Outfall	Sample date	Parameter (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	Results	Name of Laboratory (if used)	Follow-up required?
East Main St & Research Pwy (752283.58, 997431.99)	9/19/2016	E.Coli	1010 MPN/100 mL	Phoenix Environmental	Yes
Cook Ave & Summer St (754000.37, 984145.79)	9/19/2016	E. Coli	>24200 MPN/100 mL	Phoenix Environmental	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
Nothing to report.		

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	Sample Date	Parameter(s)	Results	Name of Laboratory (if used)
The City has completed outfall screening for approximately two-thirds of its outfalls that discharge directly to impaired waters. The City is in the process of identifying the 6 highest contributors of pollutants of concern and will sample those outfalls annually. The list of 6 outfalls to be sampled annually will be revisited based on the results of the remaining impaired waters outfall screening.				

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
See attached table of ranked catchments.		

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. Only include Pollutant of concern data for outfalls that discharge into stormwater impaired waterbodies.

Outfall / Interconnection ID	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 summary of results from dry weather screening.										

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.

Outfall / Interconnection ID	Sample date	Ammonia	Chlorine	Conductivity	Salinity	E. coli or Enterococcus	Surfactants	Water Temp	Pollutant of concern
See attached summary of results from wet weather impaired waters outfall sampling. No catchments investigation sampling has been performed to date.									

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. An example is provided below.

Outfall ID	Receiving Water	System Vulnerability Factors
		Nothing to report.

Where SVFs are:

- History of SSOs, including, but not limited to, those resulting from wet weather, high water table, or fat/oil/grease blockages.
- Sewer pump/lift stations, siphons, or known sanitary sewer restrictions where power/equipment failures or blockages could readily result in SSOs.
- Inadequate sanitary sewer level of service (LOS) resulting in regular surcharging, customer back-ups, or frequent customer complaints.
- Common or twin-invert manholes serving storm and sanitary sewer alignments.
- Common trench construction serving both storm and sanitary sewer alignments.
- Crossings of storm and sanitary sewer alignments.
- Sanitary sewer alignments known or suspected to have been constructed with an underdrain system;
- 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.
- Areas formerly served by combined sewer systems.

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

3.2 Key junction manhole dry weather screening and sampling data

Key Junction Manhole ID	Screening / Sample date	Visual/ olfactory evidence of illicit discharge	Ammonia	Chlorine	Surfactants
Nothing to report.					

3.3 Wet weather investigation outfall sampling data



Outfall ID	Sample date	Ammonia	Chlorine	Surfactants
Nothing to report.				

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
Nothing to report.							

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: Timothy Coon	Print name: Lindsay Silcox, EIT – Fuss & O'Neill, Inc.
Signature / Date:  3/22/21	Signature / Date:  3/19/2021

Attachment 1
Impaired Waters Outfall Sampling Table

Impaired Outfall Wet Weather Sampling
2016 Municipal Separate Storm Sewer System (MS4) Permit

Meriden, Connecticut
July 13, 2020

Outfall ID	Basin No.	Subregion	Sampler Name	Sample Date & Time	Last Rain Date	Last Rain Amount (in.)	Outfall Inundated	Up Stream Location	Up Stream Location Notes	Flow	Flow Depth (inches)	Flow Description	Visual Evidence of Illicit Discharge	Olfactory Evidence of Illicit Discharge	Sample Number	Temperature (deg C)	pH	Specific Conductivity	Outfall Turbidity (NTU)	Up-Stream Turbidity (NTU)	Salinity (ppt)	Chlorine	E-Coli (col/100ml)	Fecal Coliform (col/100ml)	Total Coliform (col/100ml)	Nitrate-Nitrite (mg/L)	TKN (mg/L)	Total Nitrogen (mg/L)	Phosphorus (mg/L)	Notes	
OF-233	5200-00-4-L2	Quinnipiac River	M. Gualtieri	2020-04-13 8:54:00	2020-04-13 16:00:00	0.77	Yes	CatchBasin	Could not access outfall	Yes	2	Moderate	None	None	1305200413-01	12.9	6.96	61.4					31	41	24200	0.11	1.47	1.58	0.222	Good	
OF-694	5200-00-4-L2	Quinnipiac River	M. Gualtieri	2020-04-13 9:06:00	2020-04-13 16:00:00	0.77	No			Yes	1	Trickle	None	None	1305200413-02	12.4	6.56	37.8					1040	538	>24,200	0.1	0.90	1.00	0.120	Could not enter picture - no service while at this sampling location.	
OF-368	5200-00-4-L2	Quinnipiac River	M. Gualtieri	2020-04-13 9:32:00	2020-04-13 16:00:00	0.1	Yes	CatchBasin	Inundated outfall	Yes	2	Moderate	None	None	1305200413-03	13.1	6.56	26.2					703	305	>24,200	0.05	2.30	2.35	0.703	Good	
OF-261	5200-00-4-L2	Quinnipiac River	M. Gualtieri	2020-04-13 10:33:00	2020-04-13 16:00:00	0.77	No			Yes	1	Trickle	None	None	1305200413-04	11.1	6.36	230.1					1020	959	17300					Good	
OF-219	5200-00-4-L2	Quinnipiac River	M. Gualtieri	2020-04-13 11:03:00	2020-04-13 16:00:00	0.77	No			Yes	3	High	None	None	1305200413-05	13.6	7.06	54.3					2490	744	24200	0.27	0.80	1.07	0.160	Good	
OF-594	5200-00-4-L2	Quinnipiac River	M. Gualtieri	2020-04-13 11:24:00	2020-04-13 16:00:00	0.77	Yes	Interconnectino	Could not access outfall	Yes	2	Moderate	None	None	1305200413-06	14.9	6.47	23.8					20	<10	19900	0.04	0.84	0.88	0.168	Good	
OF-217	5200-00-4-L2	Quinnipiac River	M. Gualtieri	2020-04-13 11:43:00	2020-04-13 16:00:00	0.77	Yes	CatchBasin	Sleep cliff could not access outfall	Yes	3	High	None	Petroleum	1305200413-07	14.1	6.76	42.1					<10	10	6130					Good	
OF-627	5200-00-4-L2	Quinnipiac River	M. Gualtieri	2020-04-13 8:47:00	2020-04-13 16:00:00	0.77	Yes	CatchBasin	Same catch basin used for sample 1305200413-01	Yes	2	Trickle	None	None	1305200413-07	12.9	6.56	37.8					5480	2760	>24,200					Good	
OF-152	5205-00-2-R2	Sodom Brook	S. Berryman	2020-03-24 9:56:00	2020-03-23 16:00:00	1.26	No			Yes	3	High	None	None	1352032420-01	6.1	8.05	302.2					>24,200	24200	>24,200					Good	
OF-224	5205-00-2-R3	Sodom Brook	S. Berryman	2020-03-24 10:37:00	2020-03-24 16:00:00	1.26	No			Yes	3	Damp	None	None	1352032420-02	5.2	7.86	198.6					10	<10	>24,200					Good	
OF-462	5205-00-2-R3	Sodom Brook	S. Berryman	2020-03-24 10:48:00	2020-03-23 16:00:00	1.26	Yes	CatchBasin	Catchbasin	Yes	3	Trickle	None	None	1352032420-03	4.5	7.73	80.8					14100	12000	>24,200					Good	
OF-590	5205-00-2-R3	Sodom Brook	S. Berryman	2020-03-24 11:06:00	2020-03-23 16:00:00	1.26	No			Yes	10	Moderate	None	Musty	1352032420-04	7.6	8.05	282.7					108	75	4610					Good	
OF-399	5205-00-2-R3	Sodom Brook	S. Berryman	2020-03-24 11:19:00	2020-03-23 16:00:00	1.26	No			No		Damp	None	None	1352032420-05	4.4	7.91	299.6					146	20	>24,200					Good	
OF-591	5205-00-2-R2	Sodom Brook	S. Berryman	2020-03-24 12:18:00	2020-03-23 16:00:00	1.26	Yes	CatchBasin	Catchbasin	Yes	2	Trickle	None	None	1352032420-07	6.7	7.55	67.9					132	10	19900					Good	
OF-245	5206-01-1	Harbor Brook	S. Berryman	2020-03-30 9:37:00	2020-03-29 16:00:00	0.62	No			Yes	0.25	Trickle	None	None	1352200330-02	8.7	7.8	234.3			0.1		<10		2380					Good	
OF-488	5206-01-1	Harbor Brook	S. Berryman	2020-03-30 10:00:00	2020-03-29 16:00:00	0.62	Yes	CatchBasin	Could not locate outfall	Yes	4	Moderate	None	None	1352200330-03	8.8	6.57	150.7			0.1		31		3450					Good	
OF-487	5206-01-1	Harbor Brook	S. Berryman	2020-03-30 10:18:00	2020-03-29 16:00:00	0.62	Yes	CatchBasin	Outfall inundated	Yes	0.5	Trickle	None	None	1352200330-04	8.7	6.74	406.2			0.2		<10		4610					Good	
OF-29	5206-01-1	Harbor Brook	S. Berryman	2020-03-30 10:49:00	2020-03-29 16:00:00	0.62	Yes	CatchBasin	Catchbasin	Yes	1	Moderate	None	None	1352200330-05	8.9	7.47	456.4			0.2		97		3650					Good	
OF-28	5206-01-1	Harbor Brook	S. Berryman	2020-03-30 11:06:00	2020-03-29 16:00:00	0.62	No			No		Damp	None	None	1352200330-06	8.4	6.96	486.6			0.2		63		2600					Good	
OF-25	5206-01-1	Harbor Brook	S. Berryman	2020-03-30 11:37:00	2020-03-30 15:37:45	0.62	Yes	CatchBasin	Catchbasin	Yes	3	Damp	None	None	1352200330-07	9.9	7.66	504			0.2		10		583					Good	
OF-554	5206-01-1	Harbor Brook	S. Berryman	2020-03-30 9:01:00	2020-03-29 16:00:00	0.62	Yes	CatchBasin	Unable to locate outfall	Yes	3	Trickle	None	None	1352200330-01	9.3	6.63	102.6			0		41		8660					Good	
OF-27	5206-01-1	Harbor Brook	S. Berryman	2020-03-30 11:23:00	2020-03-29 16:00:00	0.62	No			Yes	1	Moderate	None	None	1352200330-08	8.7	7.35	576			0.3		52		2380					Good	
OF-24	5206-01-1	Harbor Brook	S. Berryman	2020-03-30 11:55:00	2020-03-29 16:00:00	0.62	No			Yes	0.25	Trickle	None	None	1352200330-09	8.9	7.88	340.9			0.2		1670		>24,200					Good	
OF-447	5206-00-2-R1	Harbor Brook	K. Pierce	2020-03-24 10:05:00	2020-03-23 16:00:00	2	No			Yes	0.5	Trickle	None	None	1362200324-01	5.6	7.26	140					6870	4110	17300					Hard to reach	
OF-404	5206-00-2-R1	Harbor Brook	K. Pierce	2020-03-24 10:15:00	2020-03-23 16:00:00	2	No			Yes	0.25	Trickle	None	None	1362200324-02	4.8	6.64	123					62	10	4110					Steep slope	
OF-452	5206-00-2-R1	Harbor Brook	K. Pierce	2020-03-24 10:35:00	2020-03-16 16:00:00	2	No			Yes	0.75	Moderate	None	None	1362200324-03	6.3	7.09	544					<10	<10	2190					Looks good	
OF-446	5206-00-2-R1	Harbor Brook	K. Pierce	2020-03-24 11:00:00	2020-03-23 16:00:00	2	No			Yes	0.1	Trickle	None	None	1362200324-04	5.1	7.45	412					<10	<10	867					Looks good	
OF-311	5206-00-2-R1	Harbor Brook	K. Pierce	2020-03-24 11:10:00	2020-03-23 16:00:00	2	Yes	CatchBasin	Second outfall up	Yes	0.1	Trickle	None	None	1362200324-05	7.3	7.25	554					24200	>24,200	>24,200						Looks good
OF-509	5206-00-2-R1	Harbor Brook	K. Pierce	2020-03-24 11:40:00	2020-03-23 16:00:00	2	Yes	CatchBasin	First upstream catch basin	Yes	0.1	Damp	None	None	1362200324-06	4.6	7.84	119					31	<10	4110						Looks Good
OF-401	5206-00-2-R1	Harbor Brook	K. Pierce	2020-03-24 12:10:00	2020-03-23 16:00:00	2	No			Yes	0.5	Moderate	None	None	1362200324-07	6.1	7.05	162					110	85	6870					Blocked with sediment but still flowing	
OF-129	5205-00-2-R1	Sodom Brook	HH	2020-04-13 11:13:00	2020-04-10 16:00:00	0.77	No			Yes	0.25	Moderate	None	None	1510200413-01	15.2	7.17	305			54.91		131		24200					Good	
OF-128	5205-00-2-R1	Sodom Brook	HH	2020-04-13 11:26:00	2020-04-10 16:00:00	0.77	No			Yes	0.5	Moderate	None	None	1510200413-02	15	7.3	35					52		>24,200					Good	
OF-103	4601-00-1-L2	Belcher Brook	HH	2020-04-13 11:56:00	2020-04-10 16:00:00	0.77	No			Yes	1	Moderate	Foam	None	1510200413-03	16.2	6.92	14.3					111.4							Some suspended particles	
OF-57	5206-01-1	Harbor Brook	S. Berryman	2020-03-19 11:03:00	2020-03-19 16:00:00	1	No			Yes	0.5	Moderate	None	None	1532031920-01	7.1	7.35	148			0.1		281	203	>24,200		0.18	0.82	1.00	0.224	Good
OF-32	5206-01-1	Harbor Brook	S. Berryman	2020-03-19 11:15:00	2020-03-19 16:00:00	1	No			Yes	1	Trickle	None	None	1532031920-02	7.6	7.25	132.4			0.1		7270	3450	>24,200					Good	
OF-39	5206-01-1	Harbor Brook	S. Berryman	2020-03-19 11:31:00	2020-03-19 16:00:00	1	Yes	CatchBasin	Catchbasin	Yes	1	Moderate	None	None	1532031920-03	8.2	7.13	249.6			0.1		6490	934	>24,200					Outfall inaccessible due to fencing	
OF-141	5206-01-1	Harbor Brook	S. Berryman	2020-03-19 11:54:00	2020-03-19 16:00:00	1	Yes	CatchBasin	Could not find either outfall. Sample taken from upstream catchbasin, May count for both outfalls	Yes	0.5	Moderate	None	Petroleum	1532031920-04	7.9	6.91	248.8			0.1		>24,200	17300	>24,200						Took one sample from catchbasin, both outfalls apparently are fed from this basin, could not find either outfall. Swales were located but had no flow
OF-256	5200-00-4-L2	Quinnipiac River	K. Pierce	2020-03-19 10:10:00	2020-03-17 16:00:00	0.2	No			Yes	0.25	Moderate	None	None	1567031920-01	7.9	7.89	303					<10	<10	650					Looks good	
OF-255	5200-00-4-L2	Quinnipiac River	K. Pierce	2020-03-19 10:20:00	2020-03-17 16:00:00	0.2	No			Yes	0.25	Moderate	None	None	1567031920-02	8.4	7.51	383					41	75	1040					Looks good	
OF-254	5200-00-4-L2	Quinnipiac River	K. Pierce	2020-03-19 10:30:00	2020-03-17 16:00:00	0.2	No			Yes	0.1																				

Attachment 2
Catchment Priority Ranking

Outfall ID	Local Basin ID	Past Discharge Reports	Discharge Score	Receiving Water Quality	WQ_Score	Density of Generating Sites	LU_Score	Age of Development and Infrastructure	DevAge Score	Sewered or Septic	Past Sewer Conversion	SewerScore	Historic CSOs	Cso Score	Septic Age	Septic Score	Culverted Streams	Culvert Score	Public Health Area	Total	Score (0-10)	Priority
OF-140	5200-09-1	Unscreened	1	Good or Unassessed	0	Low	1	post-1990	1	Septic	No	0	No	0	< 30	1	Road crossings only	0	Yes	4	0.0	High
OF-228	5200-09-1	Unscreened	1	Good or Unassessed	0	Low	1	post-1990	1	Septic	No	0	No	0	< 30	1	Road crossings only	0	Yes	4	0.0	High
OF-229	5200-09-1	Unscreened	1	Good or Unassessed	0	Low	1	post-1990	1	Septic	No	0	No	0	< 30	1	Road crossings only	0	Yes	4	0.0	High
OF-280	5200-09-1	Unscreened	1	Good or Unassessed	0	Low	1	post-1990	1	Septic	No	0	No	0	< 30	1	Road crossings only	0	Yes	4	0.0	High
OF-281	5200-09-1	Unscreened	1	Good or Unassessed	0	Low	1	post-1990	1	Septic	No	0	No	0	< 30	1	Road crossings only	0	Yes	4	0.0	High
OF-282	5200-09-1	Unscreened	1	Good or Unassessed	0	Low	1	post-1990	1	Septic	No	0	No	0	< 30	1	Road crossings only	0	Yes	4	0.0	High
OF-283	5200-09-1	Unscreened	1	Good or Unassessed	0	Low	1	post-1990	1	Septic	No	0	No	0	< 30	1	Road crossings only	0	Yes	4	0.0	High
OF-284	5200-09-1	Unscreened	1	Good or Unassessed	0	Low	1	post-1990	1	Septic	No	0	No	0	< 30	1	Road crossings only	0	Yes	4	0.0	High
OF-385	5200-09-1	Unscreened	1	Good or Unassessed	0	Low	1	post-1990	1	Septic	No	0	No	0	< 30	1	Road crossings only	0	Yes	4	0.0	High
OF-418	5200-09-1	Unscreened	1	Good or Unassessed	0	Low	1	post-1990	1	Septic	No	0	No	0	< 30	1	Road crossings only	0	Yes	4	0.0	High
OF-419	5200-09-1	Unscreened	1	Good or Unassessed	0	Low	1	post-1990	1	Septic	No	0	No	0	< 30	1	Road crossings only	0	Yes	4	0.0	High
OF-507	5200-09-1	Unscreened	1	Good or Unassessed	0	Low	1	post-1990	1	Septic	No	0	No	0	< 30	1	Road crossings only	0	Yes	4	0.0	High

Attachment 3
Dry Weather Screening Lab Results



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

Analysis Report
 September 17, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 02002294.A38

Custody Information

Collected by: MM
 Received by: CP
 Analyzed by: see "By" below

Date

09/11/19
 09/11/19

Time

12:18
 15:22

Laboratory Data

SDG ID: GCE06581
 Phoenix ID: CE06584

Project ID: MERIDEN MS4- DRY WEATHER
 Client ID: MM190911-270

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	201	10	MPN/100 mls	10	09/11/19 18:15	LJ/RM/LJ	SM9223B-04
Fecal Coliforms MPN	85	10	MPN/100 mls	10	09/11/19 18:15	LJ/RM/LJ	Colilert-18
Total Coliforms	4610	10	MPN/100 mls	10	09/11/19 18:15	LJ/RM/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 17, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

September 13, 2019

FOR: Attn: Mr. Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 02002294.A38

Custody Information

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

Date

09/11/19
 09/11/19

Time

15:00
 16:00

Laboratory Data

SDG ID: GCE06669
 Phoenix ID: CE06671

Project ID: MERIDEN MS4 DRY WEATHER
 Client ID: MM190911-272

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	<10	10	MPN/100 mls	10	09/11/19 18:15	LJ/RM/LJ	SM9223B-04
Fecal Coliforms MPN	<10	10	MPN/100 mls	10	09/11/19 18:15	LJ/RM/LJ	Colilert-18
Total Coliforms	<10	10	MPN/100 mls	10	09/11/19 18:15	LJ/RM/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 13, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report
 September 13, 2019

FOR: Attn: Mr. Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 02002294.A38

Custody Information

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

Date

09/11/19
 09/11/19

Time

13:37
 16:00

Laboratory Data

SDG ID: GCE06669
 Phoenix ID: CE06669

Project ID: MERIDEN MS4 DRY WEATHER
 Client ID: MM190911-408

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	10	10	MPN/100 mls	10	09/11/19 18:15	LJ/RM/LJ	SM9223B-04
Fecal Coliforms MPN	<10	10	MPN/100 mls	10	09/11/19 18:15	LJ/RM/LJ	Colilert-18
Total Coliforms	86	10	MPN/100 mls	10	09/11/19 18:15	LJ/RM/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 13, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report
 September 17, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 02002294.A38

Custody Information

Collected by: MM
 Received by: CP
 Analyzed by: see "By" below

Date

09/11/19
 09/11/19

Time

12:35
 15:22

Laboratory Data

SDG ID: GCE06581
 Phoenix ID: CE06585

Project ID: MERIDEN MS4- DRY WEATHER
 Client ID: MM190911-409

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	98	10	MPN/100 mls	10	09/11/19 18:15	LJ/RM/LJ	SM9223B-04
Fecal Coliforms MPN	52	10	MPN/100 mls	10	09/11/19 18:15	LJ/RM/LJ	Colilert-18
Total Coliforms	6130	10	MPN/100 mls	10	09/11/19 18:15	LJ/RM/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 17, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

September 17, 2019

FOR: Attn: Dave Cook
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
Location Code: F&O
Rush Request: Standard
P.O.#: 2002294A38

Custody Information

Collected by: ML
Received by: SW
Analyzed by: see "By" below

Date

09/16/19
09/16/19

Time

13:36
16:33

Laboratory Data

SDG ID: GCE10409
Phoenix ID: CE10409

Project ID: MERIDEN MS4-DRY WEATHER
Client ID: MU190916-615

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	<10	10	MPN/100 mls	10	09/16/19 18:30	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	<10	10	MPN/100 mls	10	09/16/19 18:30	LJ/LJ	Colilert-18
Total Coliforms	395	10	MPN/100 mls	10	09/16/19 18:30	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director

September 17, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 September 17, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294A38

Custody Information

Collected by: ML
 Received by: SW
 Analyzed by: see "By" below

Date

09/16/19
 09/16/19

Time

15:45
 16:33

Laboratory Data

SDG ID: GCE10409
 Phoenix ID: CE10410

Project ID: MERIDEN MS4-DRY WEATHER
 Client ID: MU190916-87

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	568	10	MPN/100 mls	10	09/16/19 18:30	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	441	10	MPN/100 mls	10	09/16/19 18:30	LJ/LJ	Colilert-18
Total Coliforms	5480	10	MPN/100 mls	10	09/16/19 18:30	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 17, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 September 23, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294A38

Custody Information

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

Date

09/16/19
 09/16/19

Time

12:47
 13:42

Laboratory Data

SDG ID: GCE09899
 Phoenix ID: CE09902

Project ID: MERIDEN MS4-DRY WEATHER
 Client ID: MM190916-212

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	10	10	MPN/100 mls	10	09/16/19 15:15	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	52	10	MPN/100 mls	10	09/16/19 15:15	LJ/LJ	Colilert-18
Total Coliforms	1010	10	MPN/100 mls	10	09/16/19 15:15	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 23, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 September 23, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294A38

Custody Information

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

Date Time
 09/16/19 11:29
 09/16/19 13:42

Laboratory Data

SDG ID: GCE09899
 Phoenix ID: CE09899

Project ID: MERIDEN MS4-DRY WEATHER
 Client ID: MM190916-223

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	295	10	MPN/100 mls	10	09/16/19 15:15	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	479	10	MPN/100 mls	10	09/16/19 15:15	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	09/16/19 15:15	LJ/LJ	SW9223B-06
Nitrite-N	< 0.010	0.010	mg/L	1	09/16/19 18:09	TB	E353.2
Nitrate-N	1.43	0.02	mg/L	1	09/16/19 18:09	TB	E353.2
Nitrogen Tot Kjeldahl	0.42	0.10	mg/L	1	09/18/19	KDB	E351.1
Total Nitrogen	1.85	0.10	mg/L	1	09/18/19	KDB	SM4500NH3/E300.0-11
Phosphorus, as P	0.066	0.010	mg/L	1	09/20/19	JR	SM4500PE-11

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

Comments:

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

Phyllis Shiller, Laboratory Director

September 23, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 September 23, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294A38

Custody Information

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

Date Time

09/16/19 11:55
 09/16/19 13:42

Laboratory Data

SDG ID: GCE09899
 Phoenix ID: CE09900

Project ID: MERIDEN MS4-DRY WEATHER
 Client ID: MM190916-235

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	880	10	MPN/100 mls	10	09/16/19 15:15	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	789	10	MPN/100 mls	10	09/16/19 15:15	LJ/LJ	Colilert-18
Total Coliforms	10500	10	MPN/100 mls	10	09/16/19 15:15	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 23, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 September 23, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294A38

Custody Information

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

Date Time
 09/16/19 12:30
 09/16/19 13:42

Laboratory Data

SDG ID: GCE09899
 Phoenix ID: CE09901

Project ID: MERIDEN MS4-DRY WEATHER
 Client ID: MM190916-364

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	<10	10	MPN/100 mls	10	09/16/19 15:15	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	52	10	MPN/100 mls	10	09/16/19 15:15	LJ/LJ	Colilert-18
Total Coliforms	2010	10	MPN/100 mls	10	09/16/19 15:15	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 23, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

September 20, 2019

FOR: Attn: Mr. Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294.A38

Custody Information

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

Date

09/18/19
 09/18/19

Time

13:52
 18:42

Laboratory Data

SDG ID: GCE12669
 Phoenix ID: CE12669

Project ID: MERIDEN MS4 DRY WEATHER
 Client ID: MM190918-566

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	3440	10	MPN/100 mls	10	09/18/19 19:25	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	3650	10	MPN/100 mls	10	09/18/19 19:25	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	09/18/19 19:25	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 20, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 September 20, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294A38

Custody Information

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

Date Time
 09/18/19 12:58
 09/18/19 14:06

Laboratory Data

SDG ID: GCE11761
 Phoenix ID: CE11763

Project ID: MERIDEN MS4 DRY WEATHER
 Client ID: MU190919-116

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	17300	10	MPN/100 mls	10	09/18/19 15:25	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	11200	10	MPN/100 mls	10	09/18/19 15:25	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	09/18/19 15:25	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 20, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 September 20, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294A38

Custody Information

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

Date Time
 09/18/19 10:25
 09/18/19 14:06

Laboratory Data

SDG ID: GCE11761
 Phoenix ID: CE11762

Project ID: MERIDEN MS4 DRY WEATHER
 Client ID: MU190919-182

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	63	10	MPN/100 mls	10	09/18/19 15:25	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	121	10	MPN/100 mls	10	09/18/19 15:25	LJ/LJ	Colilert-18
Total Coliforms	4880	10	MPN/100 mls	10	09/18/19 15:25	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 20, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

September 20, 2019

FOR: Attn: Mr. Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294.A38

Custody Information

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

Date

09/18/19
 09/18/19

Time

15:05
 18:42

Laboratory Data

SDG ID: GCE12669
 Phoenix ID: CE12670

Project ID: MERIDEN MS4 DRY WEATHER
 Client ID: MM190918-184

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	359	10	MPN/100 mls	10	09/18/19 19:25	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	546	10	MPN/100 mls	10	09/18/19 19:25	LJ/LJ	Colilert-18
Total Coliforms	24200	10	MPN/100 mls	10	09/18/19 19:25	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 20, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 September 20, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294A38

Custody Information

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

Date

09/18/19
 09/18/19

Time

9:45
 14:06

Laboratory Data

SDG ID: GCE11761
 Phoenix ID: CE11761

Project ID: MERIDEN MS4 DRY WEATHER
 Client ID: MU190919-268

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	98	10	MPN/100 mls	10	09/18/19 15:25	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	158	10	MPN/100 mls	10	09/18/19 15:25	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	09/18/19 15:25	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 20, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 September 20, 2019

FOR: Attn: Mr. Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294.A38

Custody Information

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

Date Time
 09/18/19 16:46
 09/18/19 18:42

Laboratory Data

SDG ID: GCE12669
 Phoenix ID: CE12672

Project ID: MERIDEN MS4 DRY WEATHER
 Client ID: MM190918-463

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	<10	10	MPN/100 mls	10	09/18/19 19:25	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	<10	10	MPN/100 mls	10	09/18/19 19:25	LJ/LJ	Colilert-18
Total Coliforms	3450	10	MPN/100 mls	10	09/18/19 19:25	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 20, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

September 20, 2019

FOR: Attn: Mr. Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294.A38

Custody Information

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

Date

09/18/19
 09/18/19

Time

16:37
 18:42

Laboratory Data

SDG ID: GCE12669
 Phoenix ID: CE12671

Project ID: MERIDEN MS4 DRY WEATHER
 Client ID: MM190918-464

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	20	10	MPN/100 mls	10	09/18/19 19:25	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	20	10	MPN/100 mls	10	09/18/19 19:25	LJ/LJ	Colilert-18
Total Coliforms	7270	10	MPN/100 mls	10	09/18/19 19:25	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 20, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

September 20, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294.A38

Custody Information

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

Date

09/19/19
 09/19/19

Time

12:22
 14:20

Laboratory Data

SDG ID: GCE13036
 Phoenix ID: CE13041

Project ID: MERIDEN MS4- DRY WEATHER
 Client ID: MM190919-671

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	<10	10	MPN/100 mls	10	09/19/19 16:05	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	<10	10	MPN/100 mls	10	09/19/19 16:05	LJ/LJ	Colilert-18
Total Coliforms	<10	10	MPN/100 mls	10	09/19/19 16:05	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director

September 20, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

September 20, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294.A38

Custody Information

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

Date

09/19/19
 09/19/19

Time

9:12
 14:20

Laboratory Data

SDG ID: GCE13036
 Phoenix ID: CE13036

Project ID: MERIDEN MS4- DRY WEATHER
 Client ID: MM190919-25

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	<10	10	MPN/100 mls	10	09/19/19 16:05	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	31	10	MPN/100 mls	10	09/19/19 16:05	LJ/LJ	Colilert-18
Total Coliforms	2140	10	MPN/100 mls	10	09/19/19 16:05	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 20, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

September 20, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294.A38

Custody Information

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

Date

09/19/19
 09/19/19

Time

9:55
 14:20

Laboratory Data

SDG ID: GCE13036
 Phoenix ID: CE13037

Project ID: MERIDEN MS4- DRY WEATHER
 Client ID: MM190919-147

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	1720	10	MPN/100 mls	10	09/19/19 16:05	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	1500	10	MPN/100 mls	10	09/19/19 16:05	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	09/19/19 16:05	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director

September 20, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

September 20, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294.A38

Custody Information

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

Date

09/19/19
 09/19/19

Time

9:56
 14:20

Laboratory Data

SDG ID: GCE13036
 Phoenix ID: CE13038

Project ID: MERIDEN MS4- DRY WEATHER
 Client ID: MM190919-148

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	1500	10	MPN/100 mls	10	09/19/19 16:05	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	2380	10	MPN/100 mls	10	09/19/19 16:05	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	09/19/19 16:05	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 20, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 September 20, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294A38

Custody Information

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

Date

09/19/19
 09/19/19

Time

15:15
 15:59

Laboratory Data

SDG ID: GCE13210
 Phoenix ID: CE13211

Project ID: MERIDEN MS4-DRY WEATHER
 Client ID: MM190919-308

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	110	10	MPN/100 mls	10	09/19/19 18:00	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	131	10	MPN/100 mls	10	09/19/19 18:00	LJ/LJ	Colilert-18
Total Coliforms	9210	10	MPN/100 mls	10	09/19/19 18:00	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 20, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 September 20, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294.A38

Custody Information

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

Date Time
 09/19/19 12:03
 09/19/19 14:20

Laboratory Data

SDG ID: GCE13036
 Phoenix ID: CE13040

Project ID: MERIDEN MS4- DRY WEATHER
 Client ID: MM190919-337

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	10	10	MPN/100 mls	10	09/19/19 16:05	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	<10	10	MPN/100 mls	10	09/19/19 16:05	LJ/LJ	Colilert-18
Total Coliforms	1310	10	MPN/100 mls	10	09/19/19 16:05	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 20, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 September 20, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294.A38

Custody Information

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

Date Time
 09/19/19 10:15
 09/19/19 14:20

Laboratory Data

SDG ID: GCE13036
 Phoenix ID: CE13039

Project ID: MERIDEN MS4- DRY WEATHER
 Client ID: MM190919-551

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	959	10	MPN/100 mls	10	09/19/19 16:05	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	631	10	MPN/100 mls	10	09/19/19 16:05	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	09/19/19 16:05	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 20, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 September 20, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294A38

Custody Information

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

Date Time
 09/19/19 14:25
 09/19/19 15:59

Laboratory Data

SDG ID: GCE13210
 Phoenix ID: CE13210

Project ID: MERIDEN MS4-DRY WEATHER
 Client ID: MM190919-667

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	2360	10	MPN/100 mls	10	09/19/19 18:00	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	780	10	MPN/100 mls	10	09/19/19 18:00	LJ/LJ	Colilert-18
Total Coliforms	17300	10	MPN/100 mls	10	09/19/19 18:00	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 20, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 September 23, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294.A38

Custody Information

Collected by: MM
 Received by: CP
 Analyzed by: see "By" below

Date

09/20/19
 09/20/19

Time

13:15
 14:51

Laboratory Data

SDG ID: GCE14373
 Phoenix ID: CE14373

Project ID: MERIDEN MS4 DRY WEATHER
 Client ID: MM190920-230

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	10	10	MPN/100 mls	10	09/20/19 17:00	LJ/KDB	SM9223B-04
Fecal Coliforms MPN	134	10	MPN/100 mls	10	09/20/19 17:00	LJ/KDB	Colilert-18
Total Coliforms	3870	10	MPN/100 mls	10	09/20/19 17:00	LJ/KDB	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director

September 23, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

September 24, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 20020294A38

Custody Information

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

Date

09/23/19
 09/23/19

Time

16:20
 18:16

Laboratory Data

SDG ID: GCE15308
 Phoenix ID: CE15312

Project ID: MERIDEN MS4 DRY WEATHER
 Client ID: MM190923-549

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	<10	10	MPN/100 mls	10	09/23/19 19:35	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	63	10	MPN/100 mls	10	09/23/19 19:35	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	09/23/19 19:35	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 24, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

September 24, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 20020294A38

Custody Information

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

Date

09/23/19
 09/23/19

Time

14:35
 18:16

Laboratory Data

SDG ID: GCE15308
 Phoenix ID: CE15309

Project ID: MERIDEN MS4 DRY WEATHER
 Client ID: MM190923-110

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	301	10	MPN/100 mls	10	09/23/19 19:35	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	364	10	MPN/100 mls	10	09/23/19 19:35	LJ/LJ	Colilert-18
Total Coliforms	17300	10	MPN/100 mls	10	09/23/19 19:35	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 24, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

September 24, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 20020294A38

Custody Information

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

Date

09/23/19
 09/23/19

Time

16:32
 18:16

Laboratory Data

SDG ID: GCE15308
 Phoenix ID: CE15313

Project ID: MERIDEN MS4 DRY WEATHER
 Client ID: MM190923-353

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	<10	10	MPN/100 mls	10	09/23/19 19:35	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	10	10	MPN/100 mls	10	09/23/19 19:35	LJ/LJ	Colilert-18
Total Coliforms	1500	10	MPN/100 mls	10	09/23/19 19:35	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 24, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 September 24, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 20020294A38

Custody Information

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

Date Time

09/23/19 15:47
 09/23/19 18:16

Laboratory Data

SDG ID: GCE15308
 Phoenix ID: CE15311

Project ID: MERIDEN MS4 DRY WEATHER
 Client ID: MM190923-375

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	5170	10	MPN/100 mls	10	09/23/19 19:35	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	2050	10	MPN/100 mls	10	09/23/19 19:35	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	09/23/19 19:35	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 24, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

September 24, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 20020294A38

Custody Information

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

Date

09/23/19
 09/23/19

Time

15:36
 18:16

Laboratory Data

SDG ID: GCE15308
 Phoenix ID: CE15310

Project ID: MERIDEN MS4 DRY WEATHER
 Client ID: MM190923-376

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	<10	10	MPN/100 mls	10	09/23/19 19:35	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	<10	10	MPN/100 mls	10	09/23/19 19:35	LJ/LJ	Colilert-18
Total Coliforms	20	10	MPN/100 mls	10	09/23/19 19:35	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 24, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

September 24, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 20020294A38

Custody Information

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

Date

09/23/19
 09/23/19

Time

13:45
 18:16

Laboratory Data

SDG ID: GCE15308
 Phoenix ID: CE15308

Project ID: MERIDEN MS4 DRY WEATHER
 Client ID: MM190923-450

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	>24200	10	MPN/100 mls	10	09/23/19 19:35	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	>24200	10	MPN/100 mls	10	09/23/19 19:35	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	09/23/19 19:35	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 24, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 September 24, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 20020294A38

Custody Information

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

Date Time
 09/23/19 17:26
 09/23/19 18:16

Laboratory Data

SDG ID: GCE15308
 Phoenix ID: CE15315

Project ID: MERIDEN MS4 DRY WEATHER
 Client ID: MM190923-483

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	1050	10	MPN/100 mls	10	09/23/19 19:35	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	1260	10	MPN/100 mls	10	09/23/19 19:35	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	09/23/19 19:35	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 24, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

September 24, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 20020294A38

Custody Information

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

Date

09/23/19
 09/23/19

Time

17:15
 18:16

Laboratory Data

SDG ID: GCE15308
 Phoenix ID: CE15314

Project ID: MERIDEN MS4 DRY WEATHER
 Client ID: MM190923-490

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	10	10	MPN/100 mls	10	09/23/19 19:35	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	31	10	MPN/100 mls	10	09/23/19 19:35	LJ/LJ	Colilert-18
Total Coliforms	3450	10	MPN/100 mls	10	09/23/19 19:35	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 24, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

September 13, 2019

FOR: Attn: Mr. Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 02002294.A38

Custody Information

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

Date

09/09/19
 09/09/19

Time

11:33
 15:55

Laboratory Data

SDG ID: GCE00154
 Phoenix ID: CE00155

Project ID: MERIDN DRY WEATHER MS4
 Client ID: MM190909-366

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	10	10	MPN/100 mls	10	09/09/19 17:45	LJ/LJ	SM9223B-04
Total Coliforms	3450	10	MPN/100 mls	10	09/09/19 17:45	LJ/LJ	SW9223B-06
Nitrite-N	< 0.010	0.010	mg/L	1	09/09/19 18:47	TB	E353.2
Nitrate-N	3.72	0.10	mg/L	5	09/09/19 18:48	TB	E353.2
Nitrogen Tot Kjeldahl	0.56	0.10	mg/L	1	09/11/19	KDB	E351.1
Total Nitrogen	4.28	0.10	mg/L	1	09/11/19	KDB	SM4500NH3/E300.0-11
Phosphorus, as P	0.049	0.010	mg/L	1	09/12/19	JR	SM4500PE-11

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

Comments:

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

Phyllis Shiller, Laboratory Director

September 13, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

September 13, 2019

FOR: Attn: Mr. Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 02002294.A38

Custody Information

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

Date

09/09/19
 09/09/19

Time

15:05
 15:55

Laboratory Data

SDG ID: GCE00154
 Phoenix ID: CE00158

Project ID: MERIDN DRY WEATHER MS4
 Client ID: MM190909-214

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	309	10	MPN/100 mls	10	09/09/19 17:45	LJ/LJ	SM9223B-04
Total Coliforms	24200	10	MPN/100 mls	10	09/09/19 17:45	LJ/LJ	SW9223B-06
Nitrite-N	< 0.010	0.010	mg/L	1	09/09/19 18:54	TB	E353.2
Nitrate-N	5.84	0.10	mg/L	5	09/09/19 18:55	TB	E353.2
Nitrogen Tot Kjeldahl	0.59	0.10	mg/L	1	09/12/19	KDB	E351.1
Total Nitrogen	6.43	0.10	mg/L	1	09/12/19	KDB	SM4500NH3/E300.0-11
Phosphorus, as P	0.033	0.010	mg/L	1	09/12/19	JR	SM4500PE-11

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

Comments:

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

Phyllis Shiller, Laboratory Director

September 13, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

September 13, 2019

FOR: Attn: Mr. Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 02002294.A38

Custody Information

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

Date

09/09/19
 09/09/19

Time

12:55
 15:55

Laboratory Data

SDG ID: GCE00154
 Phoenix ID: CE00157

Project ID: MERIDN DRY WEATHER MS4
 Client ID: MM190909-247

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	62	10	MPN/100 mls	10	09/09/19 17:45	LJ/LJ	SM9223B-04
Total Coliforms	>24200	10	MPN/100 mls	10	09/09/19 17:45	LJ/LJ	SW9223B-06
Nitrite-N	< 0.010	0.010	mg/L	1	09/09/19 18:52	TB	E353.2
Nitrate-N	1.84	0.02	mg/L	1	09/09/19 18:52	TB	E353.2
Nitrogen Tot Kjeldahl	0.37	0.10	mg/L	1	09/12/19	KDB	E351.1
Total Nitrogen	2.21	0.10	mg/L	1	09/12/19	KDB	SM4500NH3/E300.0-11
Phosphorus, as P	0.017	0.010	mg/L	1	09/12/19	JR	SM4500PE-11

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

Comments:

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

Phyllis Shiller, Laboratory Director

September 13, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report
 September 13, 2019

FOR: Attn: Mr. Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 02002294.A38

Custody Information

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

Date Time
 09/09/19 12:23
 09/09/19 15:55

Laboratory Data

SDG ID: GCE00154
 Phoenix ID: CE00156

Project ID: MERIDN DRY WEATHER MS4
 Client ID: MM190909-359

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	313	10	MPN/100 mls	10	09/09/19 17:45	LJ/LJ	SM9223B-04
Total Coliforms	>24200	10	MPN/100 mls	10	09/09/19 17:45	LJ/LJ	SW9223B-06
Nitrite-N	0.019	0.010	mg/L	1	09/09/19 18:49	TB	E353.2
Nitrate-N	3.74	0.04	mg/L	2	09/09/19 18:50	TB	E353.2
Nitrogen Tot Kjeldahl	0.56	0.10	mg/L	1	09/12/19	KDB	E351.1
Total Nitrogen	4.32	0.10	mg/L	1	09/12/19	KDB	SM4500NH3/E300.0-11
Phosphorus, as P	0.042	0.010	mg/L	1	09/12/19	JR	SM4500PE-11

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

Comments:

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

Phyllis Shiller, Laboratory Director

September 13, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

September 13, 2019

FOR: Attn: Mr. Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 02002294.A38

Custody Information

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

Date

09/09/19
 09/09/19

Time

11:04
 15:55

Laboratory Data

SDG ID: GCE00154
 Phoenix ID: CE00154

Project ID: MERIDN DRY WEATHER MS4
 Client ID: MM190909-360

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	<10	10	MPN/100 mls	10	09/09/19 17:45	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	31	10	MPN/100 mls	10	09/09/19 17:45	LJ/LJ	Colilert-18
Total Coliforms	1420	10	MPN/100 mls	10	09/09/19 17:45	LJ/LJ	SW9223B-06
Nitrite-N	< 0.010	0.010	mg/L	1	09/09/19 18:43	TB	E353.2
Nitrate-N	4.65	0.10	mg/L	5	09/09/19 18:46	TB	E353.2
Nitrogen Tot Kjeldahl	0.57	0.10	mg/L	1	09/11/19	KDB	E351.1
Total Nitrogen	5.22	0.10	mg/L	1	09/11/19	KDB	SM4500NH3/E300.0-11
Phosphorus, as P	0.024	0.010	mg/L	1	09/12/19	JR	SM4500PE-11

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

Comments:

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

Phyllis Shiller, Laboratory Director

September 13, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

September 17, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 02002294.A38

Custody Information

Collected by: MM
 Received by: CP
 Analyzed by: see "By" below

Date

09/11/19
 09/11/19

Time

12:46
 15:22

Laboratory Data

SDG ID: GCE06581
 Phoenix ID: CE06586

Project ID: MERIDEN MS4- DRY WEATHER
 Client ID: MM190911-626

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	30	10	MPN/100 mls	10	09/11/19 18:15	LJ/RM/LJ	SM9223B-04
Fecal Coliforms MPN	<10	10	MPN/100 mls	10	09/11/19 18:15	LJ/RM/LJ	Colilert-18
Total Coliforms	794	10	MPN/100 mls	10	09/11/19 18:15	LJ/RM/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 17, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

September 17, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 02002294.A38

Custody Information

Collected by: MM
 Received by: CP
 Analyzed by: see "By" below

Date Time

09/11/19 11:20
 09/11/19 15:22

Laboratory Data

SDG ID: GCE06581
 Phoenix ID: CE06583

Project ID: MERIDEN MS4- DRY WEATHER
 Client ID: MM190911-219

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	379	10	MPN/100 mls	10	09/11/19 18:15	LJ/RM/LJ	SM9223B-04
Fecal Coliforms MPN	620	10	MPN/100 mls	10	09/11/19 18:15	LJ/RM/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	09/11/19 18:15	LJ/RM/LJ	SW9223B-06
Nitrite-N	0.025	0.010	mg/L	1	09/11/19 19:26	TB	E353.2
Nitrate-N	0.63	0.02	mg/L	1	09/11/19 19:26	TB	E353.2
Nitrogen Tot Kjeldahl	0.44	0.10	mg/L	1	09/12/19	KDB	E351.1
Total Nitrogen	1.10	0.10	mg/L	1	09/12/19	KDB	SM4500NH3/E300.0-11
Phosphorus, as P	0.138	0.010	mg/L	1	09/13/19	MI	SM4500PE-11

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

Comments:

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

Phyllis Shiller, Laboratory Director

September 17, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 September 13, 2019

FOR: Attn: Mr. Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 02002294.A38

Custody Information

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

Date

09/11/19
 09/11/19

Time

13:37
 16:00

Laboratory Data

SDG ID: GCE06669
 Phoenix ID: CE06669

Project ID: MERIDEN MS4 DRY WEATHER
 Client ID: MM190911-408

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	10	10	MPN/100 mls	10	09/11/19 18:15	LJ/RM/LJ	SM9223B-04
Fecal Coliforms MPN	<10	10	MPN/100 mls	10	09/11/19 18:15	LJ/RM/LJ	Colilert-18
Total Coliforms	86	10	MPN/100 mls	10	09/11/19 18:15	LJ/RM/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 13, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report
 September 17, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 02002294.A38

Custody Information

Collected by: MM
 Received by: CP
 Analyzed by: see "By" below

Date

09/11/19
 09/11/19

Time

10:19
 15:22

Laboratory Data

SDG ID: GCE06581
 Phoenix ID: CE06581

Project ID: MERIDEN MS4- DRY WEATHER
 Client ID: MM190911-252

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	<10	10	MPN/100 mls	10	09/11/19 18:15	LJ/RM/LJ	SM9223B-04
Fecal Coliforms MPN	20	10	MPN/100 mls	10	09/11/19 18:15	LJ/RM/LJ	Colilert-18
Total Coliforms	246	10	MPN/100 mls	10	09/11/19 18:15	LJ/RM/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
 September 17, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

September 17, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 02002294.A38

Custody Information

Collected by: MM
 Received by: CP
 Analyzed by: see "By" below

Date

09/11/19
 09/11/19

Time

10:28
 15:22

Laboratory Data

SDG ID: GCE06581
 Phoenix ID: CE06582

Project ID: MERIDEN MS4- DRY WEATHER
 Client ID: MM190911-255

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	<10	10	MPN/100 mls	10	09/11/19 18:15	LJ/RM/LJ	SM9223B-04
Fecal Coliforms MPN	<10	10	MPN/100 mls	10	09/11/19 18:15	LJ/RM/LJ	Colilert-18
Total Coliforms	1720	10	MPN/100 mls	10	09/11/19 18:15	LJ/RM/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 17, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Attachment 4
Wet Weather Sampling Lab Results



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

Analysis Report
 September 17, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 02002294.A38

Custody Information

Collected by: MM
 Received by: CP
 Analyzed by: see "By" below

Date

09/12/19
 09/12/19

Time

8:45
 12:14

Laboratory Data

SDG ID: GCE08080
 Phoenix ID: CE08081

Project ID: MERIDEN MS4 WET WEATHER
 Client ID: MM190912-601

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	>24200	10	MPN/100 mls	10	09/12/19 15:10	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	>24200	10	MPN/100 mls	10	09/12/19 15:10	LJ/LJ/RVM	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	09/12/19 15:10	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
 September 17, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

September 17, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 02002294.A38

Custody Information

Collected by: MM
 Received by: CP
 Analyzed by: see "By" below

Date

09/12/19
 09/12/19

Time

9:00
 12:14

Laboratory Data

SDG ID: GCE08080
 Phoenix ID: CE08082

Project ID: MERIDEN MS4 WET WEATHER
 Client ID: MM190912-285

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	17300	10	MPN/100 mls	10	09/12/19 15:10	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	>24200	10	MPN/100 mls	10	09/12/19 15:10	LJ/LJ/RVM	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	09/12/19 15:10	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 17, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 September 17, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 02002294.A38

Custody Information

Collected by: MM
 Received by: CP
 Analyzed by: see "By" below

Date Time
 09/12/19 8:30
 09/12/19 12:14

Laboratory Data

SDG ID: GCE08080
 Phoenix ID: CE08080

Project ID: MERIDEN MS4 WET WEATHER
 Client ID: MM190912-360

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	3080	10	MPN/100 mls	10	09/12/19 15:10	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	11200	10	MPN/100 mls	10	09/12/19 15:10	LJ/LJ/RVM	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	09/12/19 15:10	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 17, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 September 30, 2019

FOR: Attn: Mr. Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 20020294.A38

Custody Information

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

Date Time
 09/26/19 16:52
 09/26/19 19:11

Laboratory Data

SDG ID: GCE18900
 Phoenix ID: CE18906

Project ID: MERIDEN MS4 WET WEATHER
 Client ID: MM190926-644

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	13000	10	MPN/100 mls	10	09/26/19 20:55	RVM/LJ	SM9223B-04
Fecal Coliforms MPN	9800	10	MPN/100 mls	10	09/25/19 20:50	RVM/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	09/26/19 20:55	RVM/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 30, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 September 30, 2019

FOR: Attn: Mr. Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 20020294.A38

Custody Information

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

Date Time

09/26/19 16:17
 09/26/19 19:11

Laboratory Data

SDG ID: GCE18900
 Phoenix ID: CE18902

Project ID: MERIDEN MS4 WET WEATHER
 Client ID: MM190926-111

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	2190	10	MPN/100 mls	10	09/26/19 20:55	RVM/LJ	SM9223B-04
Fecal Coliforms MPN	5480	10	MPN/100 mls	10	09/25/19 20:50	RVM/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	09/26/19 20:55	RVM/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 30, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 September 30, 2019

FOR: Attn: Mr. Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 20020294.A38

Custody Information

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

Date Time
 09/26/19 16:09
 09/26/19 19:11

Laboratory Data

SDG ID: GCE18900
 Phoenix ID: CE18900

Project ID: MERIDEN MS4 WET WEATHER
 Client ID: MM190926-230

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	10	10	MPN/100 mls	10	09/26/19 20:55	RVM/LJ	SM9223B-04
Fecal Coliforms MPN	193	10	MPN/100 mls	10	09/25/19 20:50	RVM/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	09/26/19 20:55	RVM/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 30, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 September 30, 2019

FOR: Attn: Mr. Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 20020294.A38

Custody Information

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

Date

09/26/19
 09/26/19

Time

17:17
 19:11

Laboratory Data

SDG ID: GCE18900
 Phoenix ID: CE18907

Project ID: MERIDEN MS4 WET WEATHER
 Client ID: MM190926-242

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	9210	10	MPN/100 mls	10	09/26/19 20:55	RVM/LJ	SM9223B-04
Fecal Coliforms MPN	7270	10	MPN/100 mls	10	09/25/19 20:50	RVM/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	09/26/19 20:55	RVM/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 30, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 September 30, 2019

FOR: Attn: Mr. Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 20020294.A38

Custody Information

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

Date

09/26/19
 09/26/19

Time

17:42
 19:11

Laboratory Data

SDG ID: GCE18900
 Phoenix ID: CE18908

Project ID: MERIDEN MS4 WET WEATHER
 Client ID: MM190926-287

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	>24200	10	MPN/100 mls	10	09/26/19 20:55	RVM/LJ	SM9223B-04
Fecal Coliforms MPN	>24200	10	MPN/100 mls	10	09/25/19 20:50	RVM/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	09/26/19 20:55	RVM/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
 September 30, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

September 30, 2019

FOR: Attn: Mr. Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 20020294.A38

Custody Information

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

Date

09/26/19
 09/26/19

Time

16:47
 19:11

Laboratory Data

SDG ID: GCE18900
 Phoenix ID: CE18905

Project ID: MERIDEN MS4 WET WEATHER
 Client ID: MM190926-406

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	189	10	MPN/100 mls	10	09/26/19 20:55	RVM/LJ	SM9223B-04
Fecal Coliforms MPN	908	10	MPN/100 mls	10	09/25/19 20:50	RVM/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	09/26/19 20:55	RVM/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 30, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 September 30, 2019

FOR: Attn: Mr. Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 20020294.A38

Custody Information

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

Date

09/26/19
 09/26/19

Time

16:15
 19:11

Laboratory Data

SDG ID: GCE18900
 Phoenix ID: CE18901

Project ID: MERIDEN MS4 WET WEATHER
 Client ID: MM190926-445

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	520	10	MPN/100 mls	10	09/26/19 20:55	RVM/LJ	SM9223B-04
Fecal Coliforms MPN	2380	10	MPN/100 mls	10	09/25/19 20:50	RVM/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	09/26/19 20:55	RVM/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 30, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

September 30, 2019

FOR: Attn: Mr. Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 20020294.A38

Custody Information

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

Date

09/26/19
 09/26/19

Time

16:26
 19:11

Laboratory Data

SDG ID: GCE18900
 Phoenix ID: CE18903

Project ID: MERIDEN MS4 WET WEATHER
 Client ID: MM190926-512

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	>24200	10	MPN/100 mls	10	09/26/19 20:55	RVM/LJ	SM9223B-04
Fecal Coliforms MPN	>24200	10	MPN/100 mls	10	09/25/19 20:50	RVM/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	09/26/19 20:55	RVM/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 30, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 September 30, 2019

FOR: Attn: Mr. Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: SURFACE WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 20020294.A38

Custody Information

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

Date

09/26/19
 09/26/19

Time

16:37
 19:11

Laboratory Data

SDG ID: GCE18900
 Phoenix ID: CE18904

Project ID: MERIDEN MS4 WET WEATHER
 Client ID: MM190926-513

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	1440	10	MPN/100 mls	10	09/26/19 20:55	RVM/LJ	SM9223B-04
Fecal Coliforms MPN	1410	10	MPN/100 mls	10	09/25/19 20:50	RVM/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	09/26/19 20:55	RVM/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
September 30, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

October 03, 2019

FOR: Attn: Mr. Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: STORM WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294.A38

Custody Information

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

Date

10/01/19
 10/01/19

Time

10:03
 13:37

Laboratory Data

SDG ID: GCE23883
 Phoenix ID: CE23883

Project ID: MERIDEN MS4-WET WEATHER
 Client ID: 1306191001-552

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	5170	10	MPN/100 mls	10	10/01/19 17:05	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	2910	10	MPN/100 mls	10	10/01/19 17:05	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	10/01/19 17:05	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director

October 03, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

October 03, 2019

FOR: Attn: Mr. Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: STORM WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294.A38

Custody Information

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

Date

10/01/19
 10/01/19

Time

10:26
 13:37

Laboratory Data

SDG ID: GCE23883
 Phoenix ID: CE23886

Project ID: MERIDEN MS4-WET WEATHER
 Client ID: 1306191001-339

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	3870	10	MPN/100 mls	10	10/01/19 17:05	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	1990	10	MPN/100 mls	10	10/01/19 17:05	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	10/01/19 17:05	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director

October 03, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

October 03, 2019

FOR: Attn: Mr. Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: STORM WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294.A38

Custody Information

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

Date

10/01/19
 10/01/19

Time

10:10
 13:37

Laboratory Data

SDG ID: GCE23883
 Phoenix ID: CE23885

Project ID: MERIDEN MS4-WET WEATHER
 Client ID: 1306191001-550

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	4610	10	MPN/100 mls	10	10/01/19 17:05	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	2910	10	MPN/100 mls	10	10/01/19 17:05	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	10/01/19 17:05	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director

October 03, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

October 03, 2019

FOR: Attn: Mr. Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: STORM WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294.A38

Custody Information

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

Date

10/01/19
 10/01/19

Time

10:06
 13:37

Laboratory Data

SDG ID: GCE23883
 Phoenix ID: CE23884

Project ID: MERIDEN MS4-WET WEATHER
 Client ID: 1306191001-551

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	5790	10	MPN/100 mls	10	10/01/19 17:05	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	3080	10	MPN/100 mls	10	10/01/19 17:05	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	10/01/19 17:05	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director

October 03, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 November 14, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: STORM WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294.A38

Custody Information

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

Date Time
 11/12/19 10:49
 11/12/19 14:20

Laboratory Data

SDG ID: GCE58661
 Phoenix ID: CE58663

Project ID: MERIDEN MS4 WET WEATHER
 Client ID: MM191112-371

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	<10	10	MPN/100 mls	10	11/12/19 15:50	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	<10	10	MPN/100 mls	10	11/12/19 15:50	LJ/LJ	Colilert-18
Total Coliforms	627	10	MPN/100 mls	10	11/12/19 15:50	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
 November 14, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 November 14, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: STORM WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294.A38

Custody Information

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

Date Time

11/12/19 11:00
 11/12/19 14:20

Laboratory Data

SDG ID: GCE58661
 Phoenix ID: CE58664

Project ID: MERIDEN MS4 WET WEATHER
 Client ID: MM191112-217

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	<10	10	MPN/100 mls	10	11/12/19 15:50	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	10	10	MPN/100 mls	10	11/12/19 15:50	LJ/LJ	Colilert-18
Total Coliforms	6130	10	MPN/100 mls	10	11/12/19 15:50	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
 November 14, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 November 14, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: STORM WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294.A38

Custody Information

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

Date

11/12/19
 11/12/19

Time

9:58
 14:20

Laboratory Data

SDG ID: GCE58661
 Phoenix ID: CE58661

Project ID: MERIDEN MS4 WET WEATHER
 Client ID: MM191112-252

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	<10	10	MPN/100 mls	10	11/12/19 15:50	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	<10	10	MPN/100 mls	10	11/12/19 15:50	LJ/LJ	Colilert-18
Total Coliforms	98	10	MPN/100 mls	10	11/12/19 15:50	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
November 14, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 November 14, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: STORM WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294.A38

Custody Information

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

Date Time

11/12/19 10:09
 11/12/19 14:20

Laboratory Data

SDG ID: GCE58661
 Phoenix ID: CE58662

Project ID: MERIDEN MS4 WET WEATHER
 Client ID: MM191112-253

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	<10	10	MPN/100 mls	10	11/12/19 15:50	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	<10	10	MPN/100 mls	10	11/12/19 15:50	LJ/LJ	Colilert-18
Total Coliforms	3260	10	MPN/100 mls	10	11/12/19 15:50	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
November 14, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 November 14, 2019

FOR: Attn: Dave Cook
 Fuss & O'Neill, Inc.
 146 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: STORM WATER
 Location Code: F&O
 Rush Request: Standard
 P.O.#: 2002294.A38

Custody Information

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

Date Time

11/12/19 11:28
 11/12/19 14:20

Laboratory Data

SDG ID: GCE58661
 Phoenix ID: CE58665

Project ID: MERIDEN MS4 WET WEATHER
 Client ID: MM191112-279

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	161	10	MPN/100 mls	10	11/12/19 15:50	LJ/LJ	SM9223B-04
Fecal Coliforms MPN	75	10	MPN/100 mls	10	11/12/19 15:50	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	11/12/19 15:50	LJ/LJ	SW9223B-06

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

Comments:

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

Phyllis Shiller, Laboratory Director
 November 14, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director