

MS4 General Permit  
Town of Newtown 2021 Annual Report  
Existing MS4 Permittee  
Permit Number GSM 000048  
[January 1, 2021 – December 31, 2021]

---

## Introduction

This Stormwater Management Annual Report (SMAR) was developed by the Town of Newtown to protect water quality and reduce the discharge of pollutants from the municipality's storm sewer system to the maximum extent practicable (MEP). This SMAR addresses the requirements established by the CT Department of Energy and Environmental Protection's (DEEP) General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4 General Permit). This permit is the local enforcement mechanism of the U.S. Environmental Protection Agency's (EPA) National Pollutant Discharge Elimination System (NPDES) Stormwater Phase II Rule. This report documents Newtown's efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 1, 2021 to December 31, 2021.

## SMAR Structure

The report outlines a program of best management practices (BMPs), measurable goals, responsible individuals or departments, and implementation schedules for the following six minimum control measures:

- (1) Public education and outreach
- (2) Public involvement and participation
- (3) Illicit discharge detection and elimination
- (4) Construction site stormwater runoff control
- (5) Post-construction stormwater management in new development and redevelopment
- (6) Pollution prevention/good housekeeping

Appendices to this permit include the links to the Newtown Zoning & Inland Wetland Regulations, a map of Newtown Watershed Basins, and a map of Newtown's impaired waterbodies.

## Area Subject to the Report

The measures identified in this SMAR will be applied throughout the boundaries of the Town of Newtown except as otherwise noted and be consistent with the MS4 General Permit requirements. Stormwater discharge from municipally-owned maintenance garages, salt sheds and other facilities subject to the DEEP Industrial Stormwater General Permit will continue to be regulated under the conditions of that permit.

## Description of Municipality

The operator of the MS4 is the Town of Newtown. The Town of Newtown is a public entity located in the county of Fairfield, State of Connecticut. The Town of Newtown covers an area of approximately 59.11 square miles, located in Western Connecticut. The Connecticut Department of Transportation (DOT) operates an MS4 on state highways located in the Town of Newtown. This system is regulated under the CT DOT's MS4 permit. Implementation of the BMPs identified in this plan will be coordinated between Newtown and CT DOT.

## Part I: Summary of Minimum Control Measure Activities

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

Newtown will distribute information on common sources of phosphorus, nitrogen, bacteria, and mercury pollution and how to prevent or reduce the amount reaching the MS4 and discharging into waterways.

#### 1.1 BMP Summary

BMP	Status	Activities in current reporting period (if needed, more space available after this table)	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
1-1 Implement public education and outreach	Ongoing	During school year, some modification due to COVID	Educate Students on water quality	Reed Middle School Science Dept.	Ongoing	Have implemented for last 12 years	
1-2 Address education/outreach for pollutants of concern*	Ongoing	During school year, some modification due to COVID	Educate Students on water quality	Newtown High School Life Sciences Dept.	Ongoing	Have implemented for last 12 years	

#### Extra space for describing above BMP activities, if needed:

**Public Education** The program includes handouts for family involvement. The handouts are used to inform parents and siblings of the opportunities to

**Program**                      reduce non- point source pollutants.

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

Same programs in school system to be implemented annually.

**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.
Formed Pootatuck Watershed Association	Monthly Public meetings of Committee (approx 500 annually)	Impact of impervious cover, stormwater infiltration, water quality	All	Land Use, Public Works, Parks and Rec., TU, NFA

**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
2-1 Final Stormwater Management Plan publically available	Submitted	Finished and published	Adopt Plan	DPW, Land Use	N/A	2021
2.2 Conduct household hazardous waste collection	Ongoing, Yearly Schedule 2021	Household Hazardous Waste Collection Day. The Town of Newtown held its annual hazardous waste collection day for residents at DPW on May 8, 2021. Items that were able to be collected included oil based paints and strippers, paint thinner, solvents, stains and varnishes, solvent adhesives, lighter	Conduct one Household Hazardous Waste Collection Day per year for the Newtown community.	DPW	Ongoing	

fluid, waste fuels:kerosene, gasoline  
 engine degreaser,carburetor cleaner,  
 brake fluid, transmissionfluid, pesticides  
 and insecticides, weed killers,moth balls,  
 flea powder, resins and  
 adhesives,rubber cement, airplane glue,  
 hobby supplies,artist supplies, photo  
 chemicals, chemistry sets,furniture,  
 floor, metal polishes, oven, toilet  
 anddrain cleaners, rug and upholstery  
 cleaner, dry  
 cleaning solvents, spot removers,  
 swimming  
 pool chemicals, fluorescent light bulbs,  
 mercury thermometers.  
 Additional collection opportunities for  
 Newtown residents where:  
 Danbury 4/3/21, Bethel 6/12/21,  
 Brookfield 9/11/21 and New Milford  
 10/9/21

Notify  
 residents about  
 Household  
 Hazardous  
 Waste  
 Collection dates  
 through the  
 Town  
 website.

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

The following activities are planned for 2022:

1. Publish notice of 2021 Annual Report MS4.
2. Identify one volunteer organization for clean up assistance. Provide material/logistical support as needed and available.
3. Conduct at least five Household Hazardous Waste Collection Day.

## 2.3 Public Involvement/Participation reporting metrics

Metrics	Implemented	Date	Posted
Availability of the Stormwater Management Plan to public	Yes		Website
Availability of Annual Report announced to public	Yes		Website

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



This minimum control measure outlines a program to detect and eliminate current illicit discharges to the MS4 and prevent further illicit discharges in the future.

### 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	Adopted program in 2016	None reported	Yes	Newtown Land Use Agency / CT DEEP	N/A	Ongoing	N/A
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas	Adopted Map and list in 2016	None reported	Yes	Newtown Public Works / Newtown Land Use Agency	N/A	Ongoing	N/A
3-3 Implement citizen reporting program	Adopted program in 2015	None reported	Inspect installed signs annually	Newtown Land Use Agency / CT DEEP	N/A	Ongoing	N/A
3-4 Establish legal authority to prohibit illicit discharges	Adopted 1974 and 1992	None reported	Process all applications and violations	Newtown Land Use Agency / CT DEEP	N/A	Ongoing	N/A
3-5 Develop record keeping system for IDDE tracking	Adopted program in 2016	None reported	Yes	Newtown Land Use Agency	N/A	Ongoing	N/A
3-6 Address IDDE in areas with pollutants of concern	Adopted program in 2016	Land Use Officers regularly inspect these areas	Repetative	Newtown Land Use Agency / CT DEEP	N/A	Ongoing	N/A

Extra space for describing above BMP activities, if needed:

BMP

Detection of Discharge	Impaired water bodies identified by name and use impairment as defined by the most recent integrated water quality report
------------------------	---

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

Mapping of FFH Municipal sanitary sewer system

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

Example attached:

None

**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.**

Attached appendices are included with this report.

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

Land Use Officer inspects and responds to the report. After a review of the information and an inspection of the concern, the Officer documents the response.

**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
--	--	---

5 Ceadr Hill Road	Sanitarian Responded, took action to suspend the discharge and repair the probel,	None
12 Apple Blossom Lane	Sanitarian Responded, took action to suspend the discharge and repair the probel,	Minor trib along RTE 25
18 Turkey Roost Rd	Sanitarian Responded, took action to suspend the discharge and repair the probel,	None

### 3.7 IDDE reporting metrics

#### Metrics

Estimated or actual number of MS4 outfalls	1211
Estimated or actual number of interconnections	900
Outfall mapping complete	100%
Interconnection mapping complete	100%
System-wide mapping complete (detailed MS4 infrastructure)	70%
Outfall assessment and priority ranking	TBD
Dry weather screening of all High and Low priority outfalls complete	TBD
Catchment investigations complete	3500
Estimated percentage of MS4 catchment area investigated	40%

### 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).

Staff attends the NEIWPCC annual conference and logs at least 10 hours of renwal training.

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

This minimum control measure outlines procedures for minimizing polluted stormwater runoff from activities that disturb one or more acres of land. In Newtown, this is determined on a site by site basis OR collectively as part of a larger plan.

### 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	On - Going	Officers regularly check the site before and after C/O	Responses received by agencies	Land Use	Ongoing	Completed	Part of the Zoning and IWC Regulations
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval	On - Going	Land Use agency use shared doc program	Responses received by agencies	Land Use, Health, FM, PW	Ongoing	Completed	Adoption of this process allowed by state statute
4-3 Review site plans for stormwater quality concerns	On - Going	Land Use coordinates review of designs	Memo recorded for application	Land Use, and Engineering	Ongoing	Completed	Adopted as part of approval process
4-4 Conduct site inspections	On - Going	Land Use and Engineer inspect site	Records of inspections sometimes result in actions	Land Use, and Engineering	Ongoing	Completed	Part of the Zoning and IWC Regulations
4-5 Implement procedure to allow public comment on site development	On - Going	Public comment allowed during approval process	Letter of concern on record for site	Land Use	Ongoing	Completed	Part of the Zoning and IWC Regulations

4-6 Implement procedure to notify developers about DEEP construction stormwater permit	On - Going	Generating contacts at the end of approvals	plans None	Land Use	Ongoing	Completed	Land Use contacts DEEP
--	------------	---	---------------	----------	---------	-----------	------------------------

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

Part of the Zoning and IWC Regulations Article X – Erosion and Sedimentation Controls

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

This minimum control measure outlines Netown's program to address stormwater runoff from new or re-development projects that disturb one or more acres of land.

### 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	Regulations have been drafted for zoning and subdivision regulation amendments	Completed		Land Use, IWC & P/Z Commissions	N/A	Completed	
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects	Ongoing and implemented	All projects are reviewed for LID and stormwater Management		WEO, ZEO, LUEO, Road Construction	N/A		

5-3 Identify retention and detention ponds in priority areas	Pending. On target to meet deadline	Completed	WEO DPW	Ongoing
5-4 Implement long-term maintenance plan for stormwater basins and treatment structures	implemented	Catch basin cleaning and street sweeping have been occurring for many years.	WEO DPW	Ongoing
5-5 DCIA mapping	ongoing	COG is helping with mapping		Ongoing
5-6 Address post-construction issues in areas with pollutants of concern	Ongoing			Not specified

**Extra space for describing above BMP activities, if needed:**

#### **BMP**

Mitigate the long-term impacts of new and re-development projects on water quality through proper use of low impact development and runoff reduction practices.

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

Newtown will develop a maintenance plan for retention / detention ponds and stormwater treatment structures that it owns or over which it holds an easement or other authority and that are located in the town's priority areas to ensure their long-term effectiveness. This plan will require an annual inspection of those retention / detention ponds and stormwater treatment structures and removal of accumulated sediment and pollutants in excess of 50% design capacity.

## **5.3 Post-Construction Stormwater Management reporting metrics**

### **Metrics**

Baseline (2012) Directly Connected Impervious Area (DCIA)	acres
DCIA disconnected (redevelopment plus retrofits)	acres this year / acres total
Retrofits completed	#
DCIA disconnected	% this year / % total since 2012
Estimated cost of retrofits	\$
Detention or retention ponds identified	# this year /# total

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

Newtown will follow guidance provided by DEEP and UConn CLEAR to calculate the Directly Connected Impervious Area (DCIA) that contributes stormwater runoff to each of its MS4 outfalls. Progress on this task will be documented in each Annual Report until completion.

## 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	implemented	The DPW and Parks and Recreation have a formal training program in place		Various	Ongoing		
6-2 Implement MS4 property and operations maintenance	implemented	The Parks and Recreation Dept. have a plan in place as does the DPW. We are currently working with the BOE and PD to have their plans in place		Parks and Recreation Dept.	Ongoing		
6-3 Implement coordination with interconnected MS4s	implemented	Town currently works with DOT		DPW, Zoning, Wetlands	Ongoing		
6-4 Develop/implement program to control other sources of pollutants to the MS4	implemented and ongoing	IDDE protocol in place, education and good housekeeping			Ongoing		
6-5 Evaluate additional measures for discharges to impaired waters*	implemented and ongoing				Not specified		



6-6 Track projects that disconnect DCIA	implemented and ongoing				Ongoing
				DPW	
6-7 Implement infrastructure repair/rehab program	implemented and ongoing	DPW currently repairs and replaces CB and CMP when reconstruction of roads occurs, and as needed. Asks for funding in Capital budgets yearly.			Ongoing
6-8 Develop/implement plan to identify/prioritize retrofit projects	implemented and ongoing as funding allows	Asks for funding in Capital budgets yearly.	Town Engineer reviews needed repairs	DPW	Ongoing
6-9 Implement retrofit projects to disconnect 2% of DCIA	implemented and ongoing as funding allows	Implementing as funding allows. Asks for funding in Capital budgets yearly.		DPW	Ongoing
6-10 Develop/implement street sweeping program	Implemented	Street sweeping occurs annually in the spring.	Measured material and linear feet of road tracked	DPW	Ongoing
6-11 Develop/implement catch basin cleaning program	Implemented	Catch basin cleaning has been occurring for many years.	Measured material and number of basins tracked	DPW	Ongoing

		DPW	
	Implemente d	Changed to salt on roads, sand only when needed. Proper storage of winter materials. DEEP approved wash facility for vehicles.	
6-12 Develop/implement snow management practices			Ongoing

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

Street sweeping and catch basin will continue as an annual activity. Public Works asks for funding for storm water management and infrastructure improvements in their Capital budget annually. Has had the budget requests cut significantly every year due to many factors.

## 6.3 Pollution Prevention/ Good Housekeeping reporting metrics

### Metrics

Employee training provided for key staff	(y/n) / date(s)
Street sweeping	
Curb miles swept	550 miles
Volume (or mass) of material collected	500 TONS
Catch basin cleaning	
Total catch basins in priority areas	3100
Total catch basins in MS4	9000
Catch basins inspected	2603
Catch basins cleaned	2603
Volume (or mass) of material removed from all catch basins	75 Tons
Volume removed from catch basins to impaired waters (if known)	10 Tons
Snow management	
Type(s) of deicing material used	Sand/Salt
Total amount of each deicing material applied	645 Tons
Type(s) of deicing equipment used	Spreaders
Lane-miles treated	550 Miles
Snow disposal location	Curb
Staff training provided on application methods & equipment	Y – on going

Municipal turf management program actions (for permittee properties in basins with N/P impairments)

Reduction in application of fertilizers (since start of permit)	20%
Reduction in turf area (since start of permit)	acres

Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems)

Cost of mitigation actions/retrofits	\$
--------------------------------------	----

#### 6.4 Catch basin cleaning program

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

The Highway department uses a Vactor Truck to clean basins beginning in the spring annually. Other basins are inspected and/or replaced during road projects or as identified as necessary.

#### 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.**

Annually we track tasks in our storm water section of our work management system and prepare our budget request based upon that knowledge. We have been primarily funded under road work where we repair and replace and add BMPs when budget monies allow. Other funds are provided in miscellaneous storm drainage projects where project selection is based on major preventative or reconstruction projects within our budget.

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

Know first the number from WestCog. Have reductions during any road project by narrowing the impervious surface when appropriate, enforcement of land use/ordinances and BMPs.

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

Same as the previous section. Further education and enforcement for any work in the Town's ROW.

## 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 ☐

#### 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.

Water quality programs for Newtown's major waterways has been underway with 24 sampling points for the past 16 years. We are adapting this program for the MS4 stormwater quality program.

"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

Print name: DANIEL C. ROSENTHAL

Signature / Date:  9-14-22

Document Prepared by

Print name: Robert D. Sibley

Signature / Date:  9/16/2022

**IV: Certification**

**Part**

Appendices:

Newtown Inland Wetlands & Planning and Zoning Regulations: <https://www.newtown-ct.gov/land-use-agency>

Newtown DPW: <https://www.newtown-ct.gov/public-works>

**A**NALYTICAL  
**C**ONSULTING  
**T**ECHNOLOGY, INC

Certified Laboratory

US EPA CT-021  
CT PH-0518

168 Railroad Hill St., Waterbury, CT 06708 • 203.757.3960 • [csr@actlabsct.com](mailto:csr@actlabsct.com)

Town of Newtown Public Works  
Fred Hurley  
4 Turkey Hill Road

Newtown, CT 06470

**Report Date:** 11/11/2021

---

ACT Number: 2021100169 - 1      Sample Date: 10/26/2021      Date Received: 10/26/2021  
Sample Type: Grab      Sample Time: 11:10:00      Project number MS4  
Collected by: M.Acri      Sample Matrix: Stormwater  
Location/ID: Fairfield Hills - Deep Brook  
Description:

Laboratory Test	Result	Units	Method	Analysis Date	Analyst
<i>Inorganic</i>					
Ammonia Nitrogen	<0.10	mg/L	EPA 350.1	11/01/2021 06:40:16 PM	TED
Chemical Oxygen Demand	11	mg/L	EPA 410.4	10/28/2021 11:30:00 AM	RL
Nitrate (As N)	<0.20	mg/L	EPA 300	10/27/2021 02:04:00 PM	RL
Nitrite (As N)	<0.03	mg/L	EPA 300	10/27/2021 02:04:00 PM	RL
Nitrogen, Total Kjeldahl	0.36	mg/L	SM 4500 Norg C	11/01/2021 02:00:49 PM	TED
Oil&Grease	<1	mg/L	EPA 1664A/HEM	10/29/2021 04:00:00 PM	RL
pH	8.01	S.U.	SM 4500-H+B	10/26/2021 11:10:00 AM	MA
Phosphorus, Total	0.106	mg/L	SM 4500 -PE	10/27/2021 11:00:00 AM	TED
Rainfall pH	6.58	S.U.	SM 4500-H+B	10/26/2021 11:10:00 AM	MA
Specific Conductance	2	uS/cm	EPA 120.1	10/26/2021 11:10:00 AM	MA
Temperature	14.28	°C	SM 2550B	10/26/2021 11:10:00 AM	MA
Total Suspended Solids	8.0	mg/L	SM2540D	10/28/2021 03:45:00 PM	MAR
Turbidity	1	NTU	EPA 180.1	10/26/2021 11:10:00 AM	MA
<i>Metals</i>					
Hardness	<1.0	mg/L	EPA 200.7	11/10/2021 01:00:00 PM	TU

Town of Newtown Public Works  
Fred Hurley  
4 Turkey Hill Road

Page 2

Newtown, CT 06470

Report Date: 11/11/2021

ACT Number: 2021100169 - 1		Sample Date: 10/26/2021	Date Received: 10/26/2021		
Sample Type: Grab		Sample Time: 11:10:00	Project number MS4		
Collected by: M.Acri		Sample Matrix: Stormwater			
Location/ID: Fairfield Hills - Deep Brook					
Description:					
Laboratory Test	Result	Units	Method	Analysis Date	Analyst
Microbiology					
E.Coli	38	MPN/100mL	SM 9223 B	10/20/2021 05:00:00 PM	EG

ACT Number: 2021100169 - 2		Sample Date: 10/26/2021	Date Received: 10/26/2021		
Sample Type: Grab		Sample Time: 11:20:00	Project number MS4		
Collected by: M.Acri		Sample Matrix: Stormwater			
Location/ID: Commerce Rd					
Description:					
Laboratory Test	Result	Units	Method	Analysis Date	Analyst
Inorganic					
Ammonia Nitrogen	<0.10	mg/L	EPA 350.1	11/05/2021 01:55:47 PM	TED
Chemical Oxygen Demand	33	mg/L	EPA 410.4	10/28/2021 11:30:00 AM	RL
Nitrate (As N)	<0.20	mg/L	EPA 300	10/27/2021 02:21:00 PM	RL
Nitrite (As N)	<0.03	mg/L	EPA 300	10/27/2021 02:21:00 PM	RL
Nitrogen, Total Kjeldahl	0.64	mg/L	SM 4500 Norg C	11/01/2021 02:01:07 PM	TED
Oil&Grease	<1	mg/L	EPA 1664A/HEM	10/29/2021 04:00:00 PM	RL
pH	7.73	S.U.	SM 4500-H+B	10/26/2021 11:20:00 AM	MA
Phosphorus, Total	0.202	mg/L	SM 4500 -PE	10/27/2021 11:00:00 AM	TED
Rainfall pH	6.59	S.U.	SM 4500-H+B	10/26/2021 11:20:00 AM	MA
Specific Conductance	12	uS/cm	EPA 120.1	10/26/2021 11:20:00 AM	MA
Temperature	14.49	°C	SM 2550B	10/26/2021 11:20:00 AM	MA
Total Suspended Solids	58.5	mg/L	SM2540D	10/28/2021 03:45:00 PM	MAR
Turbidity	7	NTU	EPA 180.1	10/26/2021 11:20:00 AM	MA



168 Railroad Hill St., Waterbury, CT 06708 • 203.757.3960 • [csr@actlabsct.com](mailto:csr@actlabsct.com)

Town of Newtown Public Works  
Fred Hurley  
4 Turkey Hill Road

Page 3

Newtown, CT 06470

Report Date: 11/11/2021

ACT Number: 2021100169 - 2		Sample Date: 10/26/2021	Date Received: 10/26/2021		
Sample Type: Grab		Sample Time: 11:20:00	Project number MS4		
Collected by: M.Acri		Sample Matrix: Stormwater			
Location/ID: Commerce Rd					
Description:					
Laboratory Test	Result	Units	Method	Analysis Date	Analyst
Metals					
Hardness	1.9	mg/L	EPA 200.7	11/10/2021 01:00:00 PM	TU
Microbiology					
E.Coli	12098	MPN/100mL	SM 9223 B	10/20/2021 05:00:00 PM	EG

ACT Number: 2021100169 - 3		Sample Date: 10/26/2021	Date Received: 10/26/2021		
Sample Type: Grab		Sample Time: 11:30:00	Project number MS4		
Collected by: M.Acri		Sample Matrix: Stormwater			
Location/ID: Edmund Rd					
Description:					
Laboratory Test	Result	Units	Method	Analysis Date	Analyst
Inorganic					
Ammonia Nitrogen	<0.10	mg/L	EPA 350.1	11/05/2021 01:56:05 PM	TED
Chemical Oxygen Demand	33	mg/L	EPA 410.4	10/28/2021 11:30:00 AM	RL
Nitrate (As N)	<0.20	mg/L	EPA 300	10/27/2021 02:38:00 PM	RL
Nitrite (As N)	<0.03	mg/L	EPA 300	10/27/2021 02:38:00 PM	RL
Nitrogen, Total Kjeldahl	0.64	mg/L	SM 4500 Norg C	11/01/2021 02:02:37 PM	TED
Oil&Grease	1.2	mg/L	EPA 1664A/HEM	10/29/2021 04:00:00 PM	RL
pH	7.71	S.U.	SM 4500-H+B	10/26/2021 11:30:00 AM	MA
Phosphorus, Total	0.872	mg/L	SM 4500 -PE	10/27/2021 11:00:00 AM	TED
Rainfall pH	6.57	S.U.	SM 4500-H+B	10/26/2021 11:30:00 AM	MA
Specific Conductance	26	uS/cm	EPA 120.1	10/26/2021 11:30:00 AM	MA
Temperature	14.71	°C	SM 2550B	10/26/2021 11:30:00 AM	MA
Total Suspended Solids	8.0	mg/L	SM2540D	10/28/2021 03:45:00 PM	MAR
Turbidity	3	NTU	EPA 180.1	10/26/2021 11:30:00 AM	MA

Town of Newtown Public Works  
Fred Hurley  
4 Turkey Hill Road

Page 4

Newtown, CT 06470

Report Date: 11/11/2021

ACT Number: 2021100169 - 3		Sample Date: 10/26/2021	Date Received: 10/26/2021		
Sample Type: Grab		Sample Time: 11:30:00	Project number MS4		
Collected by: M.Acri			Sample Matrix: Stormwater		
Location/ID: Edmund Rd					
Description:					
Laboratory Test	Result	Units	Method	Analysis Date	Analyst
Metals					
Hardness	<1.0	mg/L	EPA 200.7	11/10/2021 01:00:00 PM	TU
Microbiology					
E.Coli	178	MPN/100mL	SM 9223 B	10/20/2021 05:00:00 PM	EG

ACT Number: 2021100169 - 4		Sample Date: 10/26/2021	Date Received: 10/26/2021		
Sample Type: Grab		Sample Time: 11:45:00	Project number MS4		
Collected by: M.Acri			Sample Matrix: Stormwater		
Location/ID: Riverside Rd					
Description:					
Laboratory Test	Result	Units	Method	Analysis Date	Analyst
Inorganic					
Ammonia Nitrogen	<0.10	mg/L	EPA 350.1	11/05/2021 01:57:53 PM	TED
Chemical Oxygen Demand	23	mg/L	EPA 410.4	10/28/2021 11:30:00 AM	RL
Nitrate (As N)	<0.20	mg/L	EPA 300	10/27/2021 02:56:00 PM	RL
Nitrite (As N)	<0.03	mg/L	EPA 300	10/27/2021 02:56:00 PM	RL
Nitrogen, Total Kjeldahl	0.89	mg/L	SM 4500 Norg C	11/01/2021 02:02:55 PM	TED
Oil&Grease	4	mg/L	EPA 1664A/HEM	10/29/2021 04:00:00 PM	RL
pH	7.67	S.U.	SM 4500-H+B	10/26/2021 11:45:00 AM	MA
Phosphorus, Total	0.329	mg/L	SM 4500 -PE	10/27/2021 11:00:00 AM	TED
Rainfall pH	6.58	S.U.	SM 4500-H+B	10/26/2021 11:45:00 AM	MA
Specific Conductance	7	uS/cm	EPA 120.1	10/26/2021 11:45:00 AM	MA
Temperature	14.27	°C	SM 2550B	10/26/2021 11:45:00 AM	MA
Total Suspended Solids	607	mg/L	SM2540D	10/28/2021 03:45:00 PM	MAR
Turbidity	9	NTU	EPA 180.1	10/26/2021 11:45:00 AM	MA

Town of Newtown Public Works  
Fred Hurley  
4 Turkey Hill Road

Page 5

Newtown, CT 06470

Report Date: 11/11/2021

ACT Number: 2021100169 - 4		Sample Date: 10/26/2021	Date Received: 10/26/2021		
Sample Type: Grab		Sample Time: 11:45:00	Project number MS4		
Collected by: M.Acri		Sample Matrix: Stormwater			
Location/ID: Riverside Rd					
Description:					
Laboratory Test	Result	Units	Method	Analysis Date	Analyst
Metals					
Hardness	1.5	mg/L	EPA 200.7	11/10/2021 01:00:00 PM	TU
Microbiology					
E.Coli	1049	MPN/100mL	SM 9223 B	10/20/2021 05:00:00 PM	EG

ACT Number: 2021100169 - 5		Sample Date: 10/26/2021	Date Received: 10/26/2021		
Sample Type: Grab		Sample Time: 11:50:00	Project number MS4		
Collected by: M.Acri		Sample Matrix: Stormwater			
Location/ID: Washington Avenue					
Description:					
Laboratory Test	Result	Units	Method	Analysis Date	Analyst
Inorganic					
Ammonia Nitrogen	<0.10	mg/L	EPA 350.1	11/05/2021 01:57:53 PM	TED
Chemical Oxygen Demand	24	mg/L	EPA 410.4	10/28/2021 11:30:00 AM	RL
Nitrate (As N)	<0.20	mg/L	EPA 300	10/27/2021 04:59:00 PM	RL
Nitrite (As N)	<0.03	mg/L	EPA 300	10/27/2021 04:59:00 PM	RL
Nitrogen, Total Kjeldahl	0.38	mg/L	SM 4500 Norg C	11/01/2021 02:04:25 PM	TED
Oil&Grease	1.2	mg/L	EPA 1664A/HEM	10/29/2021 04:00:00 PM	RL
pH	7.47	S.U.	SM 4500-H+B	10/26/2021 11:50:00 AM	MA
Phosphorus, Total	0.138	mg/L	SM 4500 -PE	10/27/2021 11:00:00 AM	TED
Rainfall pH	6.61	S.U.	SM 4500-H+B	10/26/2021 11:50:00 AM	MA
Specific Conductance	5	uS/cm	EPA 120.1	10/26/2021 11:50:00 AM	MA
Temperature	14.27	°C	SM 2550B	10/26/2021 11:50:00 AM	MA
Total Suspended Solids	12.5	mg/L	SM2540D	10/28/2021 03:45:00 PM	MAR
Turbidity	1	NTU	EPA 180.1	10/26/2021 11:50:00 AM	MA

Town of Newtown Public Works  
Fred Hurley  
4 Turkey Hill Road

Page 6

Newtown, CT 06470

Report Date: 11/11/2021

ACT Number: 2021100169 - 5      Sample Date: 10/26/2021      Date Received: 10/26/2021  
Sample Type: Grab      Sample Time: 11:50:00      Project number MS4  
Collected by: M.Acri      Sample Matrix: Stormwater  
Location/ID: Washington Avenue  
Description:

Laboratory Test	Result	Units	Method	Analysis Date	Analyst
<i>Metals</i>					
Hardness	<1.0	mg/L	EPA 200.7	11/10/2021 01:00:00 PM	TU
<i>Microbiology</i>					
E.Coli	573	MPN/100mL	SM 9223 B	10/20/2021 05:00:00 PM	EG

ACT Number: 2021100169 - 6      Sample Date: 10/26/2021      Date Received: 10/26/2021  
Sample Type: Grab      Sample Time: 12:00:00      Project number MS4  
Collected by: M.Acri      Sample Matrix: Stormwater  
Location/ID: Rivers Edge Drive  
Description:

Laboratory Test	Result	Units	Method	Analysis Date	Analyst
<i>Inorganic</i>					
Ammonia Nitrogen	<0.10	mg/L	EPA 350.1	11/05/2021 01:59:23 PM	TED
Chemical Oxygen Demand	12	mg/L	EPA 410.4	10/28/2021 11:30:00 AM	RL
Nitrate (As N)	<0.20	mg/L	EPA 300	10/27/2021 05:16:00 PM	RL
Nitrite (As N)	<0.03	mg/L	EPA 300	10/27/2021 05:16:00 PM	RL
Nitrogen, Total Kjeldahl	0.52	mg/L	SM 4500 Norg C	11/01/2021 02:04:43 PM	TED
Oil&Grease	3.4	mg/L	EPA 1664A/HEM	10/29/2021 04:00:00 PM	RL
pH	7.54	S.U.	SM 4500-H+B	10/26/2021 12:00:00 PM	MA
Phosphorus, Total	0.170	mg/L	SM 4500 -PE	10/27/2021 11:00:00 AM	TED
Rainfall pH	6.57	S.U.	SM 4500-H+B	10/26/2021 12:00:00 PM	MA
Specific Conductance	4	uS/cm	EPA 120.1	10/26/2021 12:00:00 PM	MA
Temperature	14.48	°C	SM 2550B	10/26/2021 12:00:00 PM	MA
Total Suspended Solids	25.0	mg/L	SM2540D	10/28/2021 03:45:00 PM	MAR
Turbidity	1	NTU	EPA 180.1	10/26/2021 12:00:00 PM	MA

**A**NALYTICAL  
**C**ONSULTING  
**T**ECHNOLOGY, INC

Certified Laboratory

US EPA CT-021  
CT PH-0518

168 Railroad Hill St., Waterbury, CT 06708 • 203.757.3960 • [csr@actlabsct.com](mailto:csr@actlabsct.com)

Town of Newtown Public Works  
Fred Hurley  
4 Turkey Hill Road

Page 7

Newtown, CT 06470

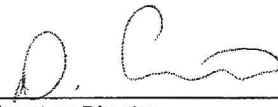
**Report Date:** 11/11/2021

---

ACT Number: 2021100169 - 6      Sample Date: 10/26/2021      Date Received: 10/26/2021  
Sample Type: Grab      Sample Time: 12:00:00      Project number MS4  
Collected by: M.Acri      Sample Matrix: Stormwater  
Location/ID: Rivers Edge Drive  
Description:

Laboratory Test	Result	Units	Method	Analysis Date	Analyst
<i>Metals</i>					
Hardness	<1.0	mg/L	EPA 200.7	11/10/2021 01:00:00 PM	TU
<i>Microbiology</i>					
E.Coli	4082	MPN/100mL	SM 9223 B	10/20/2021 05:00:00 PM	EG

For Analytical Consulting Technology, Inc.

  
Laboratory Director

2021100169



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

Stormwater Monitoring Report Form

PERMITTEE INFORMATION

Town: Town of Newtown \_\_\_\_\_  
Mailing Address: 4 Turkey Hill Rd, Newtown, 06470 \_\_\_\_\_  
Contact Person: Fred Hurley \_\_\_\_\_ Title: Engineer \_\_\_\_\_ Phone: 203-270-4300 \_\_\_\_\_  
Permit Registration # \_\_\_\_\_

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): Fairfield Hills, Mile Hill Rd. S & Mile Hill Rd \_\_\_\_\_  
Please circle the appropriate area description: ☐ Industrial ☒ Commercial ☐ Residential  
Receiving Water (name, basin): Pootatuck River \_\_\_\_\_  
Time of Start of Discharge: 8:00 \_\_\_\_\_  
Date/Time Collected: 10/26/21 11:10 \_\_\_\_\_ Water Temperature: 14.28 C \_\_\_\_\_  
Person Collecting Sample: Marc Acri \_\_\_\_\_  
Storm Magnitude (inches): 1.1in \_\_\_\_\_ Storm Duration (hours): 8hrs \_\_\_\_\_  
Date of Previous Storm Event: 10/17/21 \_\_\_\_\_

MONITORING RESULTS

Parameter	Method	Results	Units	Laboratory
Sample pH	4500HB	8.01	S.U.	Analytical Consulting Technology
Rain pH	4500HB	6.58	S.U.	Analytical Consulting Technology
Hardness	200.7	<1.0	mg/L	Analytical Consulting Technology
Conductivity	120.1	2	umho/cm	Analytical Consulting Technology
Oil & Grease	413.2	<1.0	mg/L	Analytical Consulting Technology
COD	410.4	11	mg/L	Analytical Consulting Technology
Turbidity	180.1	1	NTU	Analytical Consulting Technology
TSS	160.2	8.0	mg/L	Analytical Consulting Technology
TP	365.2T	0.106	mg/L	Analytical Consulting Technology
Ammonia	350.2	<0.10	mg/L	Analytical Consulting Technology
TKN	351.3	0.360	mg/L	Analytical Consulting Technology
NO <sub>3</sub> +NO <sub>2</sub>	300.0	<0.20	mg/L	Analytical Consulting Technology
E. coli	SM9222D	38	col./100mL	Analytical Consulting Technology

STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the MS4 General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official:

Signature:

Frederick W. Hurley Jr. Director of PW  
Fred W. Hurley Jr. Date: 8/25/20





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

Stormwater Monitoring Report Form

PERMITTEE INFORMATION

Town: Town of Newtown \_\_\_\_\_  
Mailing Address: 4 Turkey Hill Rd, Newtown, 06470 \_\_\_\_\_  
Contact Person: Fred Hurley \_\_\_\_\_ Title: Engineer \_\_\_\_\_ Phone: 203-270-4300 \_\_\_\_\_  
Permit Registration # \_\_\_\_\_

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): Commerce Rd. \_\_\_\_\_  
Please circle the appropriate area description: ☒ Industrial ☐ Commercial ☐ Residential  
Receiving Water (name, basin): WPCA \_\_\_\_\_  
Time of Start of Discharge: 8:00 \_\_\_\_\_  
Date/Time Collected: 10/26/21 11:20 \_\_\_\_\_ Water Temperature: 14.49 C \_\_\_\_\_  
Person Collecting Sample: Marc Acri \_\_\_\_\_  
Storm Magnitude (inches): 1.1in \_\_\_\_\_ Storm Duration (hours): 8hrs \_\_\_\_\_  
Date of Previous Storm Event: 10/17/21 \_\_\_\_\_

MONITORING RESULTS

Parameter	Method	Results	Units	Laboratory
Sample pH	4500HB	7.73	S.U.	Analytical Consulting Technology
Rain pH	4500HB	6.59	S.U.	Analytical Consulting Technology
Hardness	200.7	1.9	mg/L	Analytical Consulting Technology
Conductivity	120.1	12	umho/cm	Analytical Consulting Technology
Oil & Grease	413.2	<1.0	mg/L	Analytical Consulting Technology
COD	410.4	33	mg/L	Analytical Consulting Technology
Turbidity	180.1	7	NTU	Analytical Consulting Technology
TSS	160.2	58.5	mg/L	Analytical Consulting Technology
TP	365.2T	0.202	mg/L	Analytical Consulting Technology
Ammonia	350.2	<0.10	mg/L	Analytical Consulting Technology
TKN	351.3	0.640	mg/L	Analytical Consulting Technology
NO <sub>3</sub> +NO <sub>2</sub>	300.0	<0.20	mg/L	Analytical Consulting Technology
E. coli	SM9222D	12098	col./100mL	Analytical Consulting Technology

STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the MS4 General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official: \_\_\_\_\_

Signature: \_\_\_\_\_

Director of Public Works  
Fred Hurley Jr.  
Date: 8/25/22



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

Stormwater Monitoring Report Form

PERMITTEE INFORMATION

Town: Town of Newtown \_\_\_\_\_  
Mailing Address: 4 Turkey Hill Rd, Newtown, 06470 \_\_\_\_\_  
Contact Person: Fred Hurley \_\_\_\_\_ Title: Engineer \_\_\_\_\_ Phone: 203-270-4300 \_\_\_\_\_  
Permit Registration # \_\_\_\_\_

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): Edmund Rd. \_\_\_\_\_  
Please circle the appropriate area description: ☒ Industrial ☐ Commercial ☐ Residential  
Receiving Water (name, basin): WPCA \_\_\_\_\_  
Time of Start of Discharge: 8:00 \_\_\_\_\_  
Date/Time Collected: 10/26/21 11:30 \_\_\_\_\_ Water Temperature: 14.71 C \_\_\_\_\_  
Person Collecting Sample: Marc Acri \_\_\_\_\_  
Storm Magnitude (inches): 1.1in \_\_\_\_\_ Storm Duration (hours): 8hrs \_\_\_\_\_  
Date of Previous Storm Event: 10/17/21 \_\_\_\_\_

MONITORING RESULTS

Parameter	Method	Results	Units	Laboratory
Sample pH	4500HB	7.71	S.U.	Analytical Consulting Technology
Rain pH	4500HB	6.57	S.U.	Analytical Consulting Technology
Hardness	200.7	<1.0	mg/L	Analytical Consulting Technology
Conductivity	120.1	26	umho/cm	Analytical Consulting Technology
Oil & Grease	413.2	1.2	mg/L	Analytical Consulting Technology
COD	410.4	33	mg/L	Analytical Consulting Technology
Turbidity	180.1	3	NTU	Analytical Consulting Technology
TSS	160.2	8.0	mg/L	Analytical Consulting Technology
TP	365.2T	0.872	mg/L	Analytical Consulting Technology
Ammonia	350.2	<0.10	mg/L	Analytical Consulting Technology
TKN	351.3	0.640	mg/L	Analytical Consulting Technology
NO <sub>3</sub> +NO <sub>2</sub>	300.0	<0.20	mg/L	Analytical Consulting Technology
E. coli	SM9222D	178	col./100mL	Analytical Consulting Technology

STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the MS4 General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official:

Signature:

Director of Public Works  
Fred W. Hurley Jr. Date: 8/25/02





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

Stormwater Monitoring Report Form

PERMITTEE INFORMATION

Town: Town of Newtown  
Mailing Address: 4 Turkey Hill Rd, Newtown, 06470  
Contact Person: Fred Hurley Title: Engineer Phone: 203-270-4300  
Permit Registration #

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): 52 Riverside Rd.  
Please circle the appropriate area description: ☐ Industrial ☐ Commercial ☒ Residential  
Receiving Water (name, basin): Lake Zoar  
Time of Start of Discharge: 8:00  
Date/Time Collected: 10/26/21 11:45 Water Temperature: 14.27 C  
Person Collecting Sample: Marc Acri  
Storm Magnitude (inches): 1.1in Storm Duration (hours): 8hrs  
Date of Previous Storm Event: 10/17/21

MONITORING RESULTS

Parameter	Method	Results	Units	Laboratory
Sample pH	4500HB	7.67	S.U.	Analytical Consulting Technology
Rain pH	4500HB	6.58	S.U.	Analytical Consulting Technology
Hardness	200.7	1.5	mg/L	Analytical Consulting Technology
Conductivity	120.1	7	umho/cm	Analytical Consulting Technology
Oil & Grease	413.2	4.0	mg/L	Analytical Consulting Technology
COD	410.4	23	mg/L	Analytical Consulting Technology
Turbidity	180.1	9	NTU	Analytical Consulting Technology
TSS	160.2	607	mg/L	Analytical Consulting Technology
TP	365.2T	0.329	mg/L	Analytical Consulting Technology
Ammonia	350.2	<0.10	mg/L	Analytical Consulting Technology
TKN	351.3	0.890	mg/L	Analytical Consulting Technology
NO <sub>3</sub> +NO <sub>2</sub>	300.0	<0.20	mg/L	Analytical Consulting Technology
E. coli	SM9222D	1049	col./100mL	Analytical Consulting Technology

STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the MS4 General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official:

Signature:

Director of Public Works  
Fred W. Hurley Jr. Date: 8/25/22



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

Stormwater Monitoring Report Form

PERMITTEE INFORMATION

Town: Town of Newtown \_\_\_\_\_  
Mailing Address: 4 Turkey Hill Rd, Newtown, 06470 \_\_\_\_\_  
Contact Person: Fred Hurley \_\_\_\_\_ Title: Engineer \_\_\_\_\_ Phone: 203-270-4300 \_\_\_\_\_  
Permit Registration # \_\_\_\_\_

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): Washington Ave. \_\_\_\_\_  
Please circle the appropriate area description: ☐ Industrial ☒ Commercial ☐ Residential  
Receiving Water (name, basin): Pootatuck River \_\_\_\_\_  
Time of Start of Discharge: 8:00 \_\_\_\_\_  
Date/Time Collected: 10/26/21 11:50 \_\_\_\_\_ Water Temperature: 14.27 C \_\_\_\_\_  
Person Collecting Sample: Marc Acri \_\_\_\_\_  
Storm Magnitude (inches): 1.1in \_\_\_\_\_ Storm Duration (hours): 8hrs \_\_\_\_\_  
Date of Previous Storm Event: 10/17/21 \_\_\_\_\_

MONITORING RESULTS

Parameter	Method	Results	Units	Laboratory
Sample pH	4500HB	7.47	S.U.	Analytical Consulting Technology
Rain pH	4500HB	6.61	S.U.	Analytical Consulting Technology
Hardness	200.7	<1.0	mg/L	Analytical Consulting Technology
Conductivity	120.1	5	umho/cm	Analytical Consulting Technology
Oil & Grease	413.2	1.2	mg/L	Analytical Consulting Technology
COD	410.4	24	mg/L	Analytical Consulting Technology
Turbidity	180.1	1	NTU	Analytical Consulting Technology
TSS	160.2	12.5	mg/L	Analytical Consulting Technology
TP	365.2T	0.138	mg/L	Analytical Consulting Technology
Ammonia	350.2	<0.10	mg/L	Analytical Consulting Technology
TKN	351.3	0.380	mg/L	Analytical Consulting Technology
NO <sub>3</sub> +NO <sub>2</sub>	300.0	<0.20	mg/L	Analytical Consulting Technology
E. coli	SM9222D	573	col./100mL	Analytical Consulting Technology

STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the MS4 General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_





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

Stormwater Monitoring Report Form

PERMITTEE INFORMATION

Town: Town of Newtown \_\_\_\_\_  
Mailing Address: 4 Turkey Hill Rd, Newtown, 06470 \_\_\_\_\_  
Contact Person: Fred Hurley \_\_\_\_\_ Title: Engineer \_\_\_\_\_ Phone: 203-270-4300 \_\_\_\_\_  
Permit Registration # \_\_\_\_\_

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): River Edge Dr. & Walnut Tree Hill Rd. \_\_\_\_\_  
Please circle the appropriate area description: ☐ Industrial ☐ Commercial ☒ Residential  
Receiving Water (name, basin): Lake Zoar \_\_\_\_\_  
Time of Start of Discharge: 8:00 \_\_\_\_\_  
Date/Time Collected: 10/26/21 12:00 \_\_\_\_\_ Water Temperature: 14.48 C \_\_\_\_\_  
Person Collecting Sample: Marc Acri \_\_\_\_\_  
Storm Magnitude (inches): 1.1 in \_\_\_\_\_ Storm Duration (hours): 8 hrs \_\_\_\_\_  
Date of Previous Storm Event: 10/17/21 \_\_\_\_\_

MONITORING RESULTS

Parameter	Method	Results	Units	Laboratory
Sample pH	4500HB	7.54	S.U.	Analytical Consulting Technology
Rain pH	4500HB	6.57	S.U.	Analytical Consulting Technology
Hardness	200.7	<1.0	mg/L	Analytical Consulting Technology
Conductivity	120.1	4	umho/cm	Analytical Consulting Technology
Oil & Grease	413.2	3.4	mg/L	Analytical Consulting Technology
COD	410.4	12	mg/L	Analytical Consulting Technology
Turbidity	180.1	1	NTU	Analytical Consulting Technology
TSS	160.2	25.0	mg/L	Analytical Consulting Technology
TP	365.2T	0.170	mg/L	Analytical Consulting Technology
Ammonia	350.2	<0.10	mg/L	Analytical Consulting Technology
TKN	351.3	0.520	mg/L	Analytical Consulting Technology
NO <sub>3</sub> +NO <sub>2</sub>	300.0	<0.20	mg/L	Analytical Consulting Technology
E. coli	SM9222D	4082	col./100mL	Analytical Consulting Technology

STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the MS4 General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official: \_\_\_\_\_  
Signature: Fred W. Hurley Jr. Date: 8/25/22

# MS4 STORMWATER FIELD SHEET

Analytical Consulting Technology, Inc.

168 Railroad Hill St., Waterbury, CT 06708  
203-757-3960 \* 203-759-2155 (fax)

Client/Project Name: Town of Newtown

Stormwater ID: Fairfield Hills - Deep Brook

Project Location: Mile Hill Rd. S & Mile Hill Rd.

Sample Number: 2021100169-1

Date: 10/26/2021

Field Tech: MA

Time: 11:10

Weather: Raining

Estimated Flow (GPM): \_\_\_\_\_

Number of Containers: 5

Depth of Water (ft): \_\_\_\_\_

Container Preservative: H2S04

Appearance:

Sample Method:

Dry      Stagnant      **Flowing**

Beaker      **Bottle**      Scoop-pole

Filtration:

Comments:

on Site      at Lab      None

Turbidity = 1  
Rainfall pH = 6.58

## Field Parameters

pH

Temp

Cond

DO

Chlorine

8.01 su

14.28 °C

2 umhos

\_\_\_\_\_ mg/L

\_\_\_\_\_ mg/L

## Meter Calibration

Date:	10/26/21	Time:	8:20			Model
	Pre-Cal.	Post-Cal.		Pre-Cal.	Post-Cal.	
pH 4	4.31	4.00	Cond.	1489	1413	
pH 7	7.91	7.00	D.O.			
pH 10	9.26	10.00				

YSI / Hanna / Sper

# MS4 STORMWATER FIELD SHEET

Analytical Consulting Technology, Inc.

168 Railroad Hill St., Waterbury, CT 06708  
203-757-3960 \* 203-759-2155 (fax)

Client/Project Name: Town of Newtown

Stormwater ID: Commerce Rd.

Project Location: Commerce Rd.

Sample Number: 2021100169-2

Date: 10/26/2021

Field Tech: MA

Time: 11:20

Weather: Raining

Estimated Flow (GPM): \_\_\_\_\_

Number of Containers: 5

Depth of Water (ft): \_\_\_\_\_

Container Preservative: H2S04

Appearance:

Sample Method:

Dry    Stagnant    **Flowing**

Beaker    **Bottle**    Scoop-pole

Filtration:

Comments:

on Site    at Lab    None

Turbidity = 7  
Rainfall pH = 6.59

## Field Parameters

pH

Temp

Cond

DO

Chlorine

7.73 su

14.49 °C

12 umhos

\_\_\_\_\_ mg/L

\_\_\_\_\_ mg/L

## Meter Calibration

Date:	10/26/21	Time:	8:20			Model
	Pre-Cal.	Post-Cal.		Pre-Cal.	Post-Cal.	
pH 4	4.31	4.00	Cond.	1489	1413	YSI / Hanna / Sper
pH 7	7.91	7.00	D.O.			
pH 10	9.26	10.00				

# MS4 STORMWATER FIELD SHEET

Analytical Consulting Technology, Inc.

168 Railroad Hill St., Waterbury, CT 06708  
203-757-3960 \* 203-759-2155 (fax)

Client/Project Name: Town of Newtown

Stormwater ID: Edmund Rd.

Project Location: Edmund Rd.

Sample Number: 2021100169-3

Date: 10/26/2021

Field Tech: MA

Time: 11:30

Weather: Raining

Estimated Flow (GPM): \_\_\_\_\_

Number of Containers: 5

Depth of Water (ft): \_\_\_\_\_

Container Preservative: H2S04

Appearance:

Sample Method:

Dry    Stagnant    **Flowing**

Beaker    **Bottle**    Scoop-pole

Filtration:

Comments:

on Site    at Lab    None

Turbidity = 3  
Rainfall pH = 6.57

## Field Parameters

pH

Temp

Cond

DO

Chlorine

7.71 su

14.71 °C

26 umhos

\_\_\_\_\_ mg/L

\_\_\_\_\_ mg/L

## Meter Calibration

Date:	10/26/21	Time:	8:20			Model
	Pre-Cal.	Post-Cal.		Pre-Cal.	Post-Cal.	
pH 4	4.31	4.00	Cond.	1489	1413	
pH 7	7.91	7.00	D.O.			
pH 10	9.26	10.00				
						YSI / Hanna / Sper

# MS4 STORMWATER FIELD SHEET

Analytical Consulting Technology, Inc.

168 Railroad Hill St., Waterbury, CT 06708  
203-757-3960 \* 203-759-2155 (fax)

Client/Project Name: Town of Newtown

Stormwater ID: Riverside Rd.

Project Location: 52 Riverside Rd.

Sample Number: 2021100169-4

Date: 10/26/2021

Field Tech: MA

Time: 11:45

Weather: Raining

Estimated Flow (GPM): \_\_\_\_\_

Number of Containers: 5

Depth of Water (ft): \_\_\_\_\_

Container Preservative: H2SO4

Appearance:

Sample Method:

☐ Dry ☐ Stagnant ☒ Flowing

☐ Beaker ☒ Bottle ☐ Scoop-pole

Filtration:

Comments:

☐ on Site ☐ at Lab ☐ None

Turbidity = 9  
Rainfall pH = 6.58

## Field Parameters

pH

Temp

Cond

DO

Chlorine

7.67 su

14.27 °C

7 umhos

\_\_\_\_\_ mg/L

\_\_\_\_\_ mg/L

## Meter Calibration

Date:	10/26/21	Time:	8:20			Model
	Pre-Cal.	Post-Cal.		Pre-Cal.	Post-Cal.	
pH 4	4.31	4.00	Cond.	1489	1413	
pH 7	7.91	7.00	D.O.			
pH 10	9.26	10.00				

YSI / Hanna / Sper

# MS4 STORMWATER FIELD SHEET

Analytical Consulting Technology, Inc.

168 Railroad Hill St., Waterbury, CT 06708  
203-757-3960 \* 203-759-2155 (fax)

Client/Project Name: Town of Newtown

Stormwater ID: Washington Ave.

Project Location: Washington Ave. & Riverside Rd.

Sample Number: 2021100169-5

Date: 10/26/2021

Field Tech: MA

Time: 11:50

Weather: Raining

Estimated Flow (GPM): \_\_\_\_\_

Number of Containers: 5

Depth of Water (ft): \_\_\_\_\_

Container Preservative: H2SO4

Appearance:

Sample Method:

Dry    Stagnant    **Flowing**

Beaker    **Bottle**    Scoop-pole

Filtration:

Comments:

on Site    at Lab    None

Turbidity = 1  
Rainfall pH = 6.61

## Field Parameters

pH

Temp

Cond

DO

Chlorine

7.47 su

14.27 °C

5 umhos

\_\_\_\_\_ mg/L

\_\_\_\_\_ mg/L

## Meter Calibration

Date:	10/26/21	Time:	8:20			Model
	Pre-Cal.	Post-Cal.		Pre-Cal.	Post-Cal.	
pH 4	4.31	4.00	Cond.	1489	1413	YSI / Hanna / Sper
pH 7	7.91	7.00	D.O.			
pH 10	9.26	10.00				



# MS4 STORMWATER FIELD SHEET

Analytical Consulting Technology, Inc.

168 Railroad Hill St., Waterbury, CT 06708  
203-757-3960 \* 203-759-2155 (fax)

Client/Project Name: Town of Newtown

Stormwater ID: River Edge Dr.

Project Location: River Edge Dr. & Walnut Tree Hill Rd.

Sample Number: **2021100169-6**

Date: 10/26/2021

Field Tech: MA

Time: 12:00

Weather: Raining

Estimated Flow (GPM): \_\_\_\_\_

Number of Containers: 5

Depth of Water (ft): \_\_\_\_\_

Container Preservative: H2S04

Appearance:

Sample Method:

Dry      Stagnant      **Flowing**

Beaker      **Bottle**      Scoop-pole

Filtration:

Comments:

on Site      at Lab      None

Turbidity = 1  
Rainfall pH = 6.57

## Field Parameters

pH

Temp

Cond

DO

Chlorine

7.54 su

14.48 °C

4 umhos

\_\_\_\_\_ mg/L

\_\_\_\_\_ mg/L

## Meter Calibration

Date:	10/26/21	Time:	8:20			Model
	Pre-Cal.	Post-Cal.		Pre-Cal.	Post-Cal.	
pH 4	4.31	4.00	Cond.	1489	1413	YSI / Hanna / Sper
pH 7	7.91	7.00	D.O.			
pH 10	9.26	10.00				

2021100164-116

Additional cost applies to 24 + 48 TAT

Page \_\_\_\_ of \_\_\_\_

Laboratory Use Only:

DMR Forms?  
Other Attachments:

**Special Instructions to the Laboratory:**

[illegible]

**ANALYTICAL  
CONSULTING  
TECHNOLOGY, INC**

Certified Laboratory

US EPA CT-021  
CT PH-0518

168 Railroad Hill St., Waterbury, CT 06708 • 203.757.3960 • [csr@actlabsct.com](mailto:csr@actlabsct.com)

Town of Newtown Public Works  
Fred Hurley  
4 Turkey Hill Road

Newtown, CT 06470

Report Date: 06/16/2021

ACT Number: 2021060045 - 1		Sample Date: 06/03/2021	Date Received: 06/03/2021		
Sample Type: Grab		Sample Time: 09:25:00	Project number Semi-Annual		
Collected by: MA		Sample Matrix: Stormwater			
Location/ID: Outlet #4 Pipe @ Pootatuck River					
Description:					
Laboratory Test	Result	Units	Method	Analysis Date	Analyst
Stormwater Visuals	Complete			06/03/2021 09:26:00 AM	MA
<i>Inorganic</i>					
Chemical Oxygen Demand	36	mg/L	EPA 410.4	06/10/2021 10:00:00 AM	RL
Nitrate (As N)	<0.20	mg/L	EPA 300	06/03/2021 05:06:00 PM	RL
Nitrogen, Total Kjeldahl	0.30	mg/L	SM4500 Norg C	06/15/2021 11:30:40 AM	TED
pH	7.84	S.U.	SM 4500-H+B	06/03/2021 04:00:00 PM	TED
Phosphorus, Total	0.13	mg/L	SM 4500 -PE	06/07/2021 11:40:00 AM	TED
Rainfall pH	6.00	S.U.	SM 4500-H+B	06/03/2021 04:00:00 PM	TED
Total Suspended Solids	2.5	mg/L	SM2540D	06/04/2021 09:50:00 AM	MAR
<i>Metals</i>					
Copper, Total	<0.01	mg/L	EPA 200.7	06/09/2021 04:00:00 PM	TU
Lead, Total	<0.02	mg/L	EPA 200.7	06/09/2021 04:00:00 PM	TU
Zinc, Total	<0.01	mg/L	EPA 200.7	06/09/2021 04:00:00 PM	TU
<i>Organics</i>					
Oil&Grease	4.2	mg/L	EPA 1664A/HEM	06/03/2021 04:00:00 PM	RL

**A**NALYTICAL  
**C**ONSULTING  
**T**ECHNOLOGY, INC

168 Railroad Hill St., Waterbury, CT 06708 • 203.757.3960 • [csr@actlabsct.com](mailto:csr@actlabsct.com)

For Analytical Consulting Technology, Inc.

  
Laboratory Director

2021060045



**General Permit for the Discharge of Stormwater Associated with  
Industrial Activity, effective 10/1/2011  
Stormwater Monitoring Report Form  
General Requirements and Sector G Transportation Facilities Only  
(Do not submit if you have other sector specific requirements)**

**Facility Information**

Permittee Name: Town of Newtown Site Name: Town of Newtown  
 Mailing Address: 4 Turkey Hill Road Newtown CT 06470  
 Contact Person: Fred Hurley Title: Director of Public Works  
 Business Phone: 203-270-4300 ext.: \_\_\_\_\_ Email: Fred.Hurley@Newtown-ct.gov  
 Site Address: 4 Turkey Hill Road, Newtown Ct 06470  
 Receiving Water (name/basin): \_\_\_\_\_  
 Permit #: GSI \_\_\_\_\_ Primary SIC: \_\_\_\_\_  
 Discharges into an Impaired Waterbody: Yes ☐ No ☐ (If yes, complete the table on page 3 of this form)

**Sample Information**

Sample Location: Outlet #4 Person Collecting Sample: M.Acri  
 Date/Time Collected: 06/03/2021 09:25 Date of Previous Storm Event: 05/31/2021  
 This report is for samples required: Semi-annually ☒ Annually ☐ Other ☐  
 Check here if the sample contains snow or ice melt: ☐  
 Check here if a benchmark exceedance is solely due to background or off site sources ☐ see note below

**Monitoring Results**

Parameter	Required Frequency	Results (units)	Benchmark	Benchmark Exceedance (see pg 4)	Test Method	Laboratory Name
Oil & Grease	Semi-annual	4.2 (mg/L)	5.0 mg/L	<input type="checkbox"/>	EPA 1664	ACT
Rainfall pH	Semi-annual	6.00 (SU)	n/a		SM4500 H+B	ACT
Sample pH	Semi-annual	7.84 (SU)	5-9 SU	<input type="checkbox"/>	SM4500 H+B	ACT
COD	Semi-annual	36 (mg/L)	75 mg/L	<input type="checkbox"/>	EPA 410.4	ACT
TSS	Semi-annual	2.5 (mg/L)	90 mg/L	<input type="checkbox"/>	SM2540D	ACT
TP	Semi-annual	0.13 (mg/L)	0.40 mg/L	<input type="checkbox"/>	SM4500 PE	ACT
TKN	Semi-annual	0.30 (mg/L)	2.30 mg/L	<input type="checkbox"/>	SM4500 Norg	ACT
NO <sub>3</sub> -N	Semi-annual	<0.20 (mg/L)	1.10 mg/L	<input type="checkbox"/>	EPA 300	ACT
Total Copper	Semi-annual	<0.01 (mg/L)	0.059 mg/L	<input type="checkbox"/>	EPA 200.7	ACT
Total Zinc	Semi-annual	<0.01 (mg/L)	0.160 mg/L	<input type="checkbox"/>	EPA 200.7	ACT
Total Lead	Semi-annual	<0.02 (mg/L)	0.076 mg/L	<input type="checkbox"/>	EPA 200.7	ACT
24 Hr. LC <sub>50</sub>	Annual-Year 1&2	NA	n/a		22a-430	ACT
48 Hr. LC <sub>50</sub>	Annual-Year 1&2	NA	n/a		22a-430	ACT

**Exemptions**

List here any parameter(s) that will not be sampled for the remainder of the permit term: see note below

BUREAU OF MATERIALS MANAGEMENT & COMPLIANCE ASSURANCE  
 DEEP-PED-SMR-014 1 of 5 Rev. 10/17/11

**NOTE:** Complete the "Data Tracking Table" (page 4 on this form) to show the parameter is eligible for the monitoring exemption in Section 5(e)(1)(B)(iii) of the general permit. If you are discontinuing monitoring for impaired water parameters (per Section 5(e)(1)(D)), or parameters that are present due to natural or background levels or off site run-on (per Section 5(e)(1)(B)(V)), attach additional supporting information to this form.

**STORMWATER ACUTE TOXICITY TEST DATA SHEET**  
(required annually only during Year 1 and Year 2 of the permit)

Site Name:	
Date/Time Begin:	Date/Time End:
Sample Hardness:	Sample Conductivity:
Test Species: <i>Daphnia pulex</i> < 24 hrs old	Dilution Water Hardness:

Effluent Dilution	Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)			
	Hour	00	24	48	00	24	48	00	24	48	00	24	48
CONTROL 1													
CONTROL 2													
CONTROL 3													
CONTROL 4													
6.25% A													
6.25% B													
6.25% C													
6.25% D													
12.5% A													
12.5% B													
12.5% C													
12.5% D													
25% A													
25% B													
25% C													
25% D													
50% A													
50% B													
50% C													
50% D													
100% A													
100% B													
100% C													
100% D													

**REFERENCE TOXICANT RESULTS**

Test Species	Date	Reference Toxicant	Source	LC <sub>50</sub>
<i>Daphnia pulex</i>				

**General Permit for the Discharge of Stormwater Associated with  
Industrial Activity, effective 10/1/2011  
Data Tracking Sheet  
General and Sector G Transportation Facilities Only  
Monitoring Requirements**

Permittee Name: <u>Town of Newtown</u>	Permit #: GSI _____
Site Name: <u>Town of Newtown</u>	
Site Address: <u>4 Turkey Hill Road Newtown CT</u>	
Sample Location: <u>Outlet #4</u>	

Enter the sample dates and the data reported for the four (4) most recent semi-annual sample results at this discharge location into the chart below. To determine the average for the four samples add up each of the four results and then divide that number by 4.

$$\text{Average} = \frac{(\text{Sample 1} + \text{Sample 2} + \text{Sample 3} + \text{Sample 4})}{4}$$

Parameter	Sample Result				Average	Benchmark*	Qualify for exemption?
	1	2	3	4			
Sample Date	12/9/19	6/11/20	11/11/20	6/3/21			
O&G	5.1	3.1	2.1	4.2	3.6	5.0 mg/L	
Sample pH	6.44	7.71	7.43	7.84	7.36	5-9 S.U.	
COD	204	32	125	36	99.3	75 mg/L	
TSS	477	348	1078	2.5	476	90 mg/L	
TP	0.776	0.822	3.68	0.13	1.35	0.40 mg/L	
TKN	2.18	3.18	4.19	0.30	2.46	2.30 mg/L	
NO <sub>3</sub> -N	<0.20	0.621	<0.20	<0.20	0.621	1.10 mg/L	
Total Copper	0.03	0.09	0.13	<0.01	0.062	0.059 mg/L	
Total Zinc	0.16	0.33	0.49	<0.01	0.245	0.160 mg/L	
Total Lead	0.03	0.07	0.06	<0.02	0.040	0.076 mg/L	

\*If the average of the four (4) most recent samples is less than the benchmark listed, your facility is no longer required to sample semi-annually for that parameter for the rest of the permit (current permit expires 9/30/2016). If your facility qualifies for an exemption from monitoring for sample pH, your facility is also exempt from monitoring rainfall pH for the remainder of the permit.

If the average of the four (4) most recent samples is equal to or greater than the benchmark listed, check the appropriate box on page 1. If so, you have exceeded the benchmark and must continue to sample this parameter semiannually until the average is below the benchmark. See Section 5(e)(1)(B) of the General permit for requirements when exceeding a benchmark.

If the sample result reported by the testing laboratory was below detection limit, for the purpose of averaging, use a value that is ½ the detection limit for that parameter in the formula above. For example, if the result for Oil & Grease was <2.0 mg/L, use a value of 1.0 mg/L for determining the average. Please refer to Section 5 e(1)B(iii) of the General Permit for a more detailed explanation.



# Analytical Consulting Technology, Inc.

168 Railroad Hill Street, Waterbury, CT 06708 (203)757-3960

Stormwater  
Chain of Custody

ACT Order #

2021060045-1

Turnaround Time: 24-Hr 48-Hr Standard

Additional cost applies to 24 + 48 TAT

Client Name: Town of Newtown

Client Email: \_\_\_\_\_

Client Contact: Fred Hurley

Account # 005541

Client Address: 4 Turkey Hill Rd

Newtown, CT 06470

Client Telephone: 203-270-4300

Project Description: Sector G

Semi-Annual

Additional  
Comments  
&  
Special  
Instructions

Sample Collected By: \_\_\_\_\_

P.O. Number: \_\_\_\_\_

## SAMPLE INFORMATION

Sample Location

Date Time

Outlet #4 Pipe @ Pootatuck River

6/3 0925

Storm Sample Matrix

G Composite or Grab

X 50 - NP - P

X 12 - NA - P

X 25 - SP - P

X 10 - SP - G

X Rainfall 4 oz

X 25 - SH - P

X Copper, Total

X Lead, Total

X Zinc, Total

X Kjeldahl, Total

X Phosphorus, Total

X COD

X Oil & Grease

X TSS

X Nitrate

X pH

X Rainfall pH

X Total Cyanide

X Chloride

X Visuals

## ANALYSIS REQUIRED

Preservative Code: NP = Non-Preserved NA = Nitric Acid HCL = Hydrochloric Acid SH = Sodium Hydroxide SP = Sulfuric Acid  
Bottle Volume Code: 1000ml=10 500ml=50 250ml=25 125ml=12  
Container Code: P = Plastic G = Glass BG = Baked Glass S = Sterile VOA = EPA vial C = Plastic Cube M = Metal Container N = Envelope.

Sampler Signature: \_\_\_\_\_

Time

Date

Relinquished By: \_\_\_\_\_

Time

Date

Accepted By: \_\_\_\_\_

Time

Date

\_\_\_\_\_

0925

6/3/21

\_\_\_\_\_

\_\_\_\_\_

0925

6/3/21

## Laboratory Use Only

Client Needs SMR: Yes or No

Other Attachments: \_\_\_\_\_

Log in Custodian

Date

Time

Evidence of Cooling: \_\_\_\_\_ or No

HSO<sub>4</sub> pH < 2

✓


Cooler Temp: 6.3

NaOH pH > 11

✓

✓

## Quarterly Visual Monitoring Report Form

Outfall No: Newtown #4 Quarter: 1<sup>st</sup> 2<sup>nd</sup> 3<sup>rd</sup> 4<sup>th</sup> Year: 2021  
 Date/Time Collected: 6/3/21 9:25 Date/Time Examined: 6/3/21 9:26  
 Rainfall Amount: 0.1in Qualifying Storm? ☒ Yes No  
 Runoff Source: ☒ Rainfall ☐ Snowmelt  
 Examiner (print): Marc Acri Examiner (sign): 

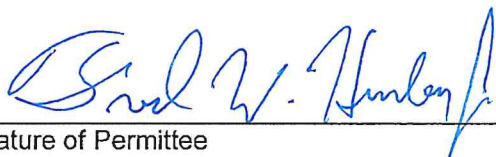
PARAMETER	OBSERVATION	CHARACTERISTICS
Color	Does the stormwater appear to be colored? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Describe:
Odor	Does the sample have an odor? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Describe:
Clarity	Is the stormwater clear or transparent? <input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	Which best describes the clarity? <input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> MILKY <input type="checkbox"/> OPAQUE
Floating Solids	Is something floating on the surface of the sample? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Describe:
Settled Solids	Is something settled on the bottom of the sample? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Describe:
Suspended Solids	Is something suspended in the sample's water column? <input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	Describe: Some debris
Foam	Is there foam or material forming on the top of the sample surface? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Describe:
Oil Sheen	Can you see a rainbow effect or sheen on the surface? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Which best describes the sheen? <input type="checkbox"/> Rainbow Sheen <input type="checkbox"/> Floating oil globules Describe:
Other Obvious Indicators of Pollution		Describe:
Based on the conditions observed above, is there the potential that the facility's current control measures are inadequate or require maintenance?		
CORRECTIVE ACTIONS TAKEN		

**Additional Monitoring for Discharges to Impaired Waters (if applicable):**

Parameter	Frequency	Results (units)	Test Method	Laboratory Name

**Statement of 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 the 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 in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes, and in accordance with any other applicable statute."



Signature of Permittee

8/25/22

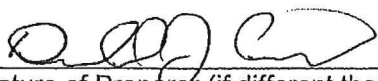
Date

Frederick W. Hurley Jr.

Name of Permittee (print or type)

Director of Public Works

Title (if applicable)



Signature of Preparer (if different than above)

6/16/21

Date

D. Carow

Name of Preparer (print or type)

Director

Title (if applicable)

Please send all completed forms to:

WATER TOXICS PROGRAM COORDINATOR  
BUREAU OF WATER PROTECTION AND LAND REUSE  
CT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION  
79 ELM STREET  
HARTFORD, CT 06106-5127

**ANALYTICAL  
CONSULTING  
TECHNOLOGY, INC**

Certified Laboratory

US EPA CT-021  
CT PH-0518

168 Railroad Hill St., Waterbury, CT 06708 • 203.757.3960 • [csr@actlabsct.com](mailto:csr@actlabsct.com)

Town of Newtown Public Works  
Fred Hurley  
4 Turkey Hill Road

Newtown, CT 06470

Report Date: 06/16/2021

ACT Number: 2021060043 - 1      Sample Date: 06/03/2021      Date Received: 06/03/2021  
Sample Type: Grab      Sample Time: 09:15:00      Project number Semi-Annual  
Collected by: MA      Sample Matrix: Stormwater  
Location/ID: Outlet #1 Small Pond  
Description:

Laboratory Test	Result	Units	Method	Analysis Date	Analyst
Stormwater Visuals	Complete			06/03/2021 09:16:00 AM	MA
<i>Inorganic</i>					
Chemical Oxygen Demand	71	mg/L	EPA 410.4	06/10/2021 10:00:00 AM	RL
Chloride	518	mg/L	EPA 300	06/08/2021 03:24:00 PM	RL
Cyanide, Total	0.014	mg/L	SM4500-CN E	06/03/2021 03:20:00 PM	MAR
Nitrate (As N)	<0.20	mg/L	EPA 300	06/03/2021 04:33:00 PM	RL
Nitrogen, Total Kjeldahl	1.32	mg/L	SM4500 Norg C	06/15/2021 11:28:33 AM	TED
pH	7.37	S.U.	SM 4500-H+B	06/03/2021 04:00:00 PM	TED
Phosphorus, Total	0.37	mg/L	SM 4500 -PE	06/07/2021 11:40:00 AM	TED
Rainfall pH	6.00	S.U.	SM 4500-H+B	06/03/2021 04:00:00 PM	TED
Total Suspended Solids	41.0	mg/L	SM2540D	06/04/2021 09:50:00 AM	MAR
<i>Metals</i>					
Copper, Total	<0.01	mg/L	EPA 200.7	06/09/2021 04:00:00 PM	TU
Lead, Total	<0.02	mg/L	EPA 200.7	06/09/2021 04:00:00 PM	TU
Zinc, Total	0.05	mg/L	EPA 200.7	06/09/2021 04:00:00 PM	TU

**A** ANALYTICAL  
**C**ONSULTING  
**T**ECHNOLOGY, INC

Certified Laboratory

US EPA CT-021  
CT PH-0518

168 Railroad Hill St., Waterbury, CT 06708 • 203.757.3960 • [csr@actlabsct.com](mailto:csr@actlabsct.com)

Town of Newtown Public Works  
Fred Hurley  
4 Turkey Hill Road

Page 2

Newtown, CT 06470

Report Date: 06/16/2021

ACT Number: 2021060043 - 1		Sample Date: 06/03/2021	Date Received: 06/03/2021		
Sample Type: Grab		Sample Time: 09:15:00	Project number Semi-Annual		
Collected by: MA			Sample Matrix: Stormwater		
Location/ID: Outlet #1 Small Pond					
Description:					
Laboratory Test	Result	Units	Method	Analysis Date	Analyst
Organics					
Oil&Grease	3.0	mg/L	EPA 1664A/HEM	06/03/2021 04:00:00 PM	RL

For Analytical Consulting Technology, Inc.

  
Laboratory Director

2021060043



**General Permit for the Discharge of Stormwater Associated with  
Industrial Activity, effective 10/1/2011  
Stormwater Monitoring Report Form**  
General Requirements and Sector G Transportation Facilities Only  
(Do not submit if you have other sector specific requirements)

**Facility Information**

Permittee Name: <u>Town of Newtown</u>	Site Name: <u>Town of Newtown</u>
Mailing Address: <u>4 Turkey Hill Road Newtown CT 06470</u>	
Contact Person: <u>Fred Hurley</u>	Title: <u>Director of Public Works</u>
Business Phone: <u>203-270-4300</u>	ext.: _____ Email: <u>Fred.Hurley@Newtown-ct.gov</u>
Site Address: <u>4 Turkey Hill Road, Newtown Ct 06470</u>	
Receiving Water (name/basin): _____	
Permit #: GSI _____	Primary SIC: _____
Discharges into an Impaired Waterbody: Yes <input type="checkbox"/> No <input type="checkbox"/> (If yes, complete the table on page 3 of this form)	

**Sample Information**

Sample Location: <u>Outlet #1</u>	Person Collecting Sample: <u>M.Acri</u>
Date/Time Collected: <u>06/03/2021 09:15</u>	Date of Previous Storm Event: <u>05/31/2021</u>
This report is for samples required: Semi-annually <input checked="" type="checkbox"/> Annually <input type="checkbox"/> Other <input type="checkbox"/>	
Check here if the sample contains <b>snow or ice melt</b> : <input type="checkbox"/>	
Check here if a benchmark exceedance is solely due to background or off site sources <input type="checkbox"/> see note below	

**Monitoring Results**

Parameter	Required Frequency	Results (units)	Benchmark	Benchmark Exceedance (see pg 4)	Test Method	Laboratory Name
Oil & Grease	Semi-annual	3.0 (mg/L)	5.0 mg/L	<input type="checkbox"/>	EPA 1664	ACT
Rainfall pH	Semi-annual	6.00 (SU)	n/a		SM4500 H+B	ACT
Sample pH	Semi-annual	7.37 (SU)	5-9 SU	<input type="checkbox"/>	SM4500 H+B	ACT
COD	Semi-annual	71 (mg/L)	75 mg/L	<input type="checkbox"/>	EPA 410.4	ACT
TSS	Semi-annual	41.0 (mg/L)	90 mg/L	<input type="checkbox"/>	SM2540D	ACT
TP	Semi-annual	0.370 (mg/L)	0.40 mg/L	<input type="checkbox"/>	SM4500 PE	ACT
TKN	Semi-annual	1.32 (mg/L)	2.30 mg/L	<input type="checkbox"/>	SM4500 Norg	ACT
NO <sub>3</sub> -N	Semi-annual	<0.20 (mg/L)	1.10 mg/L	<input type="checkbox"/>	EPA 300	ACT
Total Copper	Semi-annual	<0.01 (mg/L)	0.059 mg/L	<input type="checkbox"/>	EPA 200.7	ACT
Total Zinc	Semi-annual	0.05 (mg/L)	0.160 mg/L	<input type="checkbox"/>	EPA 200.7	ACT
Total Lead	Semi-annual	<0.02 (mg/L)	0.076 mg/L	<input type="checkbox"/>	EPA 200.7	ACT
24 Hr. LC <sub>50</sub>	Annual-Year 1&2	NA	n/a		22a-430	ACT
48 Hr. LC <sub>50</sub>	Annual-Year 1&2	NA	n/a		22a-430	ACT

**Exemptions**

List here any parameter(s) that will not be sampled for the remainder of the permit term: see note below

**NOTE:** Complete the "Data Tracking Table" (page 4 on this form) to show the parameter is eligible for the monitoring exemption in Section 5(e)(1)(B)(iii) of the general permit. If you are discontinuing monitoring for impaired water parameters (per Section 5(e)(1)(D)), or parameters that are present due to natural or background levels or off site run-on (per Section 5(e)(1)(B)(V)), attach additional supporting information to this form.



**STORMWATER ACUTE TOXICITY TEST DATA SHEET**  
(required annually only during Year 1 and Year 2 of the permit)

Site Name:	
Date/Time Begin:	Date/Time End:
Sample Hardness:	Sample Conductivity:
Test Species: <i>Daphnia pulex</i> < 24 hrs old	Dilution Water Hardness:

Effluent Dilution	Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)			
	Hour	00	24	48	00	24	48	00	24	48	00	24	48
CONTROL 1													
CONTROL 2													
CONTROL 3													
CONTROL 4													
6.25% A													
6.25% B													
6.25% C													
6.25% D													
12.5% A													
12.5% B													
12.5% C													
12.5% D													
25% A													
25% B													
25% C													
25% D													
50% A													
50% B													
50% C													
50% D													
100% A													
100% B													
100% C													
100% D													

**REFERENCE TOXICANT RESULTS**

Test Species	Date	Reference Toxicant	Source	LC <sub>50</sub>
<i>Daphnia pulex</i>				



**Additional Monitoring for Discharges to Impaired Waters (if applicable):**

Parameter	Frequency	Results (units)	Test Method	Laboratory Name
Cyanide, Total	Semi-Annual	0.014 (mg/L)	SM4500-CN E	ACT
Chloride	Sem-Annual	518 (mg/L)	EPA 300	ACT

**Statement of 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 the 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 in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes, and in accordance with any other applicable statute."



Signature of Permittee

8/25/22

Date

Frederick W. Hurley Sr.

Name of Permittee (print or type)

Director of Public Works

Title (if applicable)



Signature of Preparer (if different than above)

6/16/21

Date

D. Carew

Name of Preparer (print or type)

Director

Title (if applicable)

Please send all completed forms to:

WATER TOXICS PROGRAM COORDINATOR  
BUREAU OF WATER PROTECTION AND LAND REUSE  
CT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION  
79 ELM STREET  
HARTFORD, CT 06106-5127

**General Permit for the Discharge of Stormwater Associated with  
Industrial Activity, effective 10/1/2011  
Data Tracking Sheet  
General and Sector G Transportation Facilities Only  
Monitoring Requirements**

Permittee Name: <u>Town of Newtown</u>	Permit #: GSI _____
Site Name: <u>Town of Newtown</u>	
Site Address: <u>4 Turkey Hill Road Newtown CT</u>	
Sample Location: <u>Outlet #1</u>	

Enter the sample dates and the data reported for the four (4) most recent semi-annual sample results at this discharge location into the chart below. To determine the average for the four samples add up each of the four results and then divide that number by 4.

$$\text{Average} = \frac{(\text{Sample 1} + \text{Sample 2} + \text{Sample 3} + \text{Sample 4})}{4}$$

Parameter	Sample Result				Average	Benchmark*	Qualify for exemption?
	1	2	3	4			
Sample Date	12/9/19	6/11/20	11/11/20	6/3/21			
O&G	38.3	9.0	2.1	3.0	13.1	5.0 mg/L	
Sample pH	5.85	7.33	6.59	7.37	6.79	5-9 S.U.	
COD	138	106	144	71	115	75 mg/L	
TSS	160	139	382	41.0	181	90 mg/L	
TP	0.286	0.506	0.736	0.37	0.475	0.40 mg/L	
TKN	0.46	2.27	3.60	1.32	1.91	2.30 mg/L	
NO <sub>3</sub> -N	<0.20	0.662	<0.20	<0.20	0.662	1.10 mg/L	
Total Copper	0.04	0.01	0.04	<0.01	0.023	0.059 mg/L	
Total Zinc	0.11	0.08	0.21	0.05	0.113	0.160 mg/L	
Total Lead	<0.02	<0.02	<0.02	<0.02	<0.02	0.076 mg/L	

\*If the average of the four (4) most recent samples is less than the benchmark listed, your facility is no longer required to sample semi-annually for that parameter for the rest of the permit (current permit expires 9/30/2016). If your facility qualifies for an exemption from monitoring for sample pH, your facility is also exempt from monitoring rainfall pH for the remainder of the permit.

If the average of the four (4) most recent samples is equal to or greater than the benchmark listed, check the appropriate box on page 1. If so, you have exceeded the benchmark and must continue to sample this parameter semiannually until the average is below the benchmark. See Section 5(e)(1)(B) of the General permit for requirements when exceeding a benchmark.

If the sample result reported by the testing laboratory was below detection limit, for the purpose of averaging, use a value that is ½ the detection limit for that parameter in the formula above. For example, if the result for Oil & Grease was <2.0 mg/L, use a value of 1.0 mg/L for determining the average. Please refer to Section 5 e(1)(B)(iii) of the General Permit for a more detailed explanation.

2021060043-1

Turnaround Time: 24-Hr 48-Hr Standard

**Additional  
Comments  
&  
Special  
Instructions**

--

Sampler Signature:	Time	Date	Relinquished By:	Time	Date
--------------------	------	------	------------------	------	------

Laboratory Use Only

Client Needs S.M.R.:	Yes or No				
Other Attachments:					
Log in Custodian	<u>MM</u>	Evidence of Cooling <u>Yes</u> or No		H <sub>2</sub> SO <sub>4</sub> pH < 2	<u>✓</u>
Date	<u>6/8</u>	Cooler Temp: <u>0.3</u>		NaOH pH > 11	<u>✓</u>
Time	<u>11:35</u>			HNO <sub>3</sub> pH < 2	<u>✓</u>

# Quarterly Visual Monitoring Report Form

Outfall No: Newtown #1 Quarter: 1<sup>st</sup> 2<sup>nd</sup> 3<sup>rd</sup> 4<sup>th</sup> Year: 2021  
 Date/Time Collected: 6/3/21 9:15 Date/Time Examined: 6/3/21 9:16  
 Rainfall Amount: 0.1in Qualifying Storm? Yes No  
 Runoff Source: Rainfall Snowmelt  
 Examiner (print): Marc Acri Examiner (sign): *Marc Acri*

PARAMETER	OBSERVATION	CHARACTERISTICS
Color	Does the stormwater appear to be colored? <u>YES</u> NO	Describe: Brown
Odor	Does the sample have an odor? YES <u>NO</u>	Describe:
Clarity	Is the stormwater clear or transparent? YES <u>NO</u>	Which best describes the clarity? CLEAR <u>MILKY</u> OPAQUE
Floating Solids	Is something floating on the surface of the sample? YES <u>NO</u>	Describe:
Settled Solids	Is something settled on the bottom of the sample? YES <u>NO</u>	Describe:
Suspended Solids	Is something suspended in the sample's water column? <u>YES</u> NO	Describe: Some debris
Foam	Is there foam or material forming on the top of the sample surface? <u>YES</u> NO	Describe: Foam when poured
Oil Sheen	Can you see a rainbow effect or sheen on the surface? YES <u>NO</u>	Which best describes the sheen? Rainbow Sheen Floating oil globules Describe:
Other Obvious Indicators of Pollution		Describe:
Based on the conditions observed above, is there the potential that the facility's current control measures are inadequate or require maintenance?		
CORRECTIVE ACTIONS TAKEN		

**ANALYTICAL  
CONSULTING  
TECHNOLOGY, INC**

Certified Laboratory

US EPA CT-021  
CT PH-0518

168 Railroad Hill St., Waterbury, CT 06708 • 203.757.3960 • [csr@actlabsct.com](mailto:csr@actlabsct.com)

Town of Newtown Public Works  
Fred Hurley  
4 Turkey Hill Road

Newtown, CT 06470

Report Date: 06/16/2021

ACT Number: 2021060044 - 1      Sample Date: 06/03/2021      Date Received: 06/03/2021  
Sample Type: Grab      Sample Time: 09:05:00      Project number: Semi-Annual  
Collected by: MA      Sample Matrix: Stormwater  
Location/ID: Outlet #2 Turkey Hill  
Description:

Laboratory Test	Result	Units	Method	Analysis Date	Analyst
Stormwater Visuals	Complete			06/03/2021 09:06:00 AM	MA
<i>Inorganic</i>					
Chemical Oxygen Demand	34	mg/L	EPA 410.4	06/10/2021 10:00:00 AM	RL
Nitrate (As N)	0.223	mg/L	EPA 300	06/03/2021 04:50:00 PM	RL
Nitrogen, Total Kjeldahl	0.49	mg/L	SM4500 Norg C	06/15/2021 11:30:22 AM	TED
pH	6.68	S.U.	SM 4500-H+B	06/03/2021 04:00:00 PM	TED
Phosphorus, Total	0.144	mg/L	SM 4500 -PE	06/07/2021 11:40:00 AM	TED
Rainfall pH	6.00	S.U.	SM 4500-H+B	06/03/2021 04:00:00 PM	TED
Total Suspended Solids	15.0	mg/L	SM2540D	06/04/2021 09:50:00 AM	MAR
<i>Metals</i>					
Copper, Total	<0.01	mg/L	EPA 200.7	06/09/2021 04:00:00 PM	TU
Lead, Total	<0.02	mg/L	EPA 200.7	06/09/2021 04:00:00 PM	TU
Zinc, Total	0.03	mg/L	EPA 200.7	06/09/2021 04:00:00 PM	TU
<i>Organics</i>					
Oil&Grease	4.9	mg/L	EPA 1664A/HEM	06/03/2021 04:00:00 PM	RL

**A**NALYTICAL  
**C**ONSULTING  
**T**ECHNOLOGY, INC

168 Railroad Hill St., Waterbury, CT 06708 • 203.757.3960 • [csr@actlabsct.com](mailto:csr@actlabsct.com)

For Analytical Consulting Technology, Inc.

  
Laboratory Director

2021060044





**General Permit for the Discharge of Stormwater Associated with  
Industrial Activity, effective 10/1/2011  
Stormwater Monitoring Report Form  
General Requirements and Sector G Transportation Facilities Only  
(Do not submit if you have other sector specific requirements)**

**Facility Information**

Permittee Name: Town of Newtown Site Name: Town of Newtown  
 Mailing Address: 4 Turkey Hill Road Newtown CT 06470  
 Contact Person: Fred Hurley Title: Director of Public Works  
 Business Phone: 203-270-4300 ext.: \_\_\_\_\_ Email: Fred.Hurley@Newtown-ct.gov  
 Site Address: 4 Turkey Hill Road, Newtown Ct 06470  
 Receiving Water (name/basin): \_\_\_\_\_  
 Permit #: GSI \_\_\_\_\_ Primary SIC: \_\_\_\_\_  
 Discharges into an Impaired Waterbody: Yes ☐ No ☐ (If yes, complete the table on page 3 of this form)

**Sample Information**

Sample Location: Outlet #2 Person Collecting Sample: M.ACRI  
 Date/Time Collected: 06/03/2021 09:05 Date of Previous Storm Event: 05/31/2021  
 This report is for samples required: Semi-annually ☒ Annually ☐ Other ☐  
 Check here if the sample contains snow or ice melt: ☐  
 Check here if a benchmark exceedance is solely due to background or off site sources ☐ see note below

**Monitoring Results**

Parameter	Required Frequency	Results (units)	Benchmark	Benchmark Exceedance (see pg 4)	Test Method	Laboratory Name
Oil & Grease	Semi-annual	4.9 (mg/L)	5.0 mg/L	<input type="checkbox"/>	EPA 1664	ACT
Rainfall pH	Semi-annual	6.00 (SU)	n/a		SM4500 H+B	ACT
Sample pH	Semi-annual	6.68 (SU)	5-9 SU	<input type="checkbox"/>	SM4500 H+B	ACT
COD	Semi-annual	34 (mg/L)	75 mg/L	<input type="checkbox"/>	EPA 410.4	ACT
TSS	Semi-annual	15.0 (mg/L)	90 mg/L	<input type="checkbox"/>	SM2540D	ACT
TP	Semi-annual	0.144 (mg/L)	0.40 mg/L	<input type="checkbox"/>	SM4500 PE	ACT
TKN	Semi-annual	0.490 (mg/L)	2.30 mg/L	<input type="checkbox"/>	SM4500 Norg	ACT
NO <sub>3</sub> -N	Semi-annual	0.223 (mg/L)	1.10 mg/L	<input type="checkbox"/>	EPA 300	ACT
Total Copper	Semi-annual	<0.01 (mg/L)	0.059 mg/L	<input type="checkbox"/>	EPA 200.7	ACT
Total Zinc	Semi-annual	0.03 (mg/L)	0.160 mg/L	<input type="checkbox"/>	EPA 200.7	ACT
Total Lead	Semi-annual	<0.02 (mg/L)	0.076 mg/L	<input type="checkbox"/>	EPA 200.7	ACT
24 Hr. LC <sub>50</sub>	Annual-Year 1&2	NA	n/a		22a-430	ACT
48 Hr. LC <sub>50</sub>	Annual-Year 1&2	NA	n/a		22a-430	ACT

**Exemptions**

List here any parameter(s) that will not be sampled for the remainder of the permit term: see note below  
 BUREAU OF MATERIALS MANAGEMENT & COMPLIANCE ASSURANCE  
 DEEP-PED-SMR-014 1 of 5 Rev. 10/17/11



**NOTE:** Complete the "Data Tracking Table" (page 4 on this form) to show the parameter is eligible for the monitoring exemption in Section 5(e)(1)(B)(iii) of the general permit. If you are discontinuing monitoring for impaired water parameters (per Section 5(e)(1)(D)), or parameters that are present due to natural or background levels or off site run-on (per Section 5(e)(1)(B)(V)), attach additional supporting information to this form.

**STORMWATER ACUTE TOXICITY TEST DATA SHEET**  
(required annually only during Year 1 and Year 2 of the permit)

Site Name:	
Date/Time Begin:	Date/Time End:
Sample Hardness:	Sample Conductivity:
Test Species: <i>Daphnia pulex</i> < 24 hrs old	Dilution Water Hardness:

Effluent Dilution		Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)		
Hour	00	24	48	00	24	48	00	24	48	00	24	48	
CONTROL 1													
CONTROL 2													
CONTROL 3													
CONTROL 4													
6.25% A													
6.25% B													
6.25% C													
6.25% D													
12.5% A													
12.5% B													
12.5% C													
12.5% D													
25% A													
25% B													
25% C													
25% D													
50% A													
50% B													
50% C													
50% D													
100% A													
100% B													
100% C													
100% D													

**REFERENCE TOXICANT RESULTS**

Test Species	Date	Reference Toxicant	Source	LC <sub>50</sub>
<i>Daphnia pulex</i>				

**General Permit for the Discharge of Stormwater Associated with  
Industrial Activity, effective 10/1/2011  
Data Tracking Sheet  
General and Sector G Transportation Facilities Only  
Monitoring Requirements**

Permittee Name: <u>Town of Newtown</u>	Permit #: GSI _____
Site Name: <u>Town of Newtown</u>	
Site Address: <u>4 Turkey Hill Road Newtown CT</u>	
Sample Location: <u>Outlet #2</u>	

Enter the sample dates and the data reported for the four (4) most recent semi-annual sample results at this discharge location into the chart below. To determine the average for the four samples add up each of the four results and then divide that number by 4.

$$\text{Average} = \frac{(\text{Sample 1} + \text{Sample 2} + \text{Sample 3} + \text{Sample 4})}{4}$$

Parameter	Sample Result				Average	Benchmark*	Qualify for exemption?
	1	2	3	4			
Sample Date	12/9/19	06/11/20	11/11/20	6/3/21			
O&G	3.2	13	3.8	4.9	6.2	5.0 mg/L	
Sample pH	5.82	6.93	6.79	6.68	6.60	5-9 S.U.	
COD	21	210	98	34	91	75 mg/L	
TSS	41.0	1010	148	15.0	304	90 mg/L	
TP	0.105	1.41	0.303	0.144	0.49	0.40 mg/L	
TKN	0.26	2.45	0.62	0.490	0.69	2.30 mg/L	
NO <sub>3</sub> -N	<0.20	0.290	<0.20	0.223	0.129	1.10 mg/L	
Total Copper	<0.01	0.05	0.01	<0.01	0.015	0.059 mg/L	
Total Zinc	0.05	0.36	0.08	0.03	0.130	0.160 mg/L	
Total Lead	<0.02	<0.02	<0.02	<0.02	<0.02	0.076 mg/L	

\*If the average of the four (4) most recent samples is less than the benchmark listed, your facility is no longer required to sample semi-annually for that parameter for the rest of the permit (current permit expires 9/30/2016). If your facility qualifies for an exemption from monitoring for sample pH, your facility is also exempt from monitoring rainfall pH for the remainder of the permit.

If the average of the four (4) most recent samples is equal to or greater than the benchmark listed, check the appropriate box on page 1. If so, you have exceeded the benchmark and must continue to sample this parameter semiannually until the average is below the benchmark. See Section 5(e)(1)(B) of the General permit for requirements when exceeding a benchmark.

If the sample result reported by the testing laboratory was below detection limit, for the purpose of averaging, use a value that is ½ the detection limit for that parameter in the formula above. For example, if the result for Oil & Grease was <2.0 mg/L, use a value of 1.0 mg/L for determining the average. Please refer to Section 5 e(1)(B)(iii) of the General Permit for a more detailed explanation.



# Quarterly Visual Monitoring Report Form

Outfall No: Newtown #2

Quarter: 1<sup>st</sup> 2<sup>nd</sup> 3<sup>rd</sup> 4<sup>th</sup> Year: 2021

Date/Time Collected: 6/3/21 9:05

Date/Time Examined: 6/3/21 9:06

Rainfall Amount: 0.1in

Qualifying Storm? ☒ Yes ☐ No

Runoff Source: ☒ Rainfall ☐ Snowmelt

Examiner (print): Marc Acri

Examiner (sign): 

PARAMETER	OBSERVATION	CHARACTERISTICS
Color	Does the stormwater appear to be colored? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Describe:
Odor	Does the sample have an odor? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Describe: Slight waste smell
Clarity	Is the stormwater clear or transparent? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Which best describes the clarity? <input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> MILKY <input type="checkbox"/> OPAQUE
Floating Solids	Is something floating on the surface of the sample? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Describe:
Settled Solids	Is something settled on the bottom of the sample? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Describe: Dirt
Suspended Solids	Is something suspended in the sample's water column? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Describe:
Foam	Is there foam or material forming on the top of the sample surface? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Describe:
Oil Sheen	Can you see a rainbow effect or sheen on the surface? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Which best describes the sheen? <input type="checkbox"/> Rainbow Sheen <input type="checkbox"/> Floating oil globules Describe:
Other Obvious Indicators of Pollution		Describe:
Based on the conditions observed above, is there the potential that the facility's current control measures are inadequate or require maintenance?		
CORRECTIVE ACTIONS TAKEN		

**Additional Monitoring for Discharges to Impaired Waters (if applicable):**

Parameter	Frequency	Results (units)	Test Method	Laboratory Name

**Statement of 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 the 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 in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes, and in accordance with any other applicable statute."

*Fredrick W. Hurley*

Signature of Permittee

*8/25/22*

Date

*Fredrick W. Hurley*

Name of Permittee (print or type)

*Director of PLW*

Title (if applicable)

*D. Carew*

Signature of Preparer (if different than above)

*6/16/21*

Date

*D. Carew*

Name of Preparer (print or type)

*Director*

Title (if applicable)

Please send all completed forms to:

WATER TOXICS PROGRAM COORDINATOR  
BUREAU OF WATER PROTECTION AND LAND REUSE  
CT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION  
79 ELM STREET  
HARTFORD, CT 06106-5127