# 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 Reprt (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 Newtwon 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

ВМР	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	Ongoin g	During school year, some modification due to COVID	Educate Students on water quality	Reed Middle School Science Dept.	Ongoin g	Have implemented for last 12 years	
1-2 Address education/ outreach for pollutants of concern*	Ongoin g	During school year, some modification due to COVID	Educate Students on water quality	Newtown High School Life Sciences Dept.	Ongoin g	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

### 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 Assocation	Monthly Public meetings of Committee	Impact of impervious cover, stormwater	All	Land Use, Public Works, Parks and Rec., TU, NFA
	(approx 500 annually)	infiltration, water		

quatliy

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

#### 2.1 BMP Summary

ВМР	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	Submitte d	Finished and published	Adopt Plan	DPW, Land Use	N/A	2021
2.2 Conduct household hazardous waste collection	Ongoing, Yearly Schedule d 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 becollected included oil based paints and stripperspaint 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

ВМР	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	Adopte d progra m 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	Adopte d Map and list in 2016	None reported	Yes	Netown Public Works / Newtown Land Use Agency	N/A	Ongoing	N/A
3-3 Implement citizen reporting program	Adopte d progra m 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	Adopte d 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	Adopte d progra m in 2016	None reported	Yes	Newtown Land Use Agency	N/A	Ongoing	N/A
3-6 Address IDDE in areas with pollutants of concern	Adopte d progra m 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** 

			č
Detection	ot	Disc	harge

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 appendicies 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

ВМР	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	Ongoin g	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	Ongoin g	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	Ongoin g	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	Ongoin g	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	Ongoin g	Completed	Part of the Zoning and IWC Regulations

*			pians				
4-6 Implement procedure to	On -	Generating conta at the	None	Land Use		Completed	Land Use contacts DEEP
notify developers about DEEP	Going	end of applrovals			Ongoin		
construction stormwater permit					g		

#### 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 Sedimention 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

ВМР	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 amendment s	Completed		Land Use, IWC & P/Z Commissions	N/A	Completed	
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects	Ongoing and implemente d	All projects are reviewed for LID and stormwater Management		WEO, ZEO, LUEO, Road Construction	N/ A		

			WEO DPW	
5-3 Identify retention and detention ponds in priority areas	Pending. On target to meet deadline	Completed		Ongoing
5-4 Implement long-term maintenance plan for stormwater basins and treatment structures	implemente d	Catch basin cleaning and street sweeping have been occurring for many years.	WEO DPW	Ongoing
5-5 DCIA mapping	ongoin g	COG is helping with mapping		Ongoing
5-6 Address post- construction issues in areas with pollutants of concern	Ongoin g			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)

DCIA disconnected (redevelopment plus retrofits)

Retrofits completed

DCIA disconnected

Estimated cost of retrofits

Detention or retention ponds identified

acres

acres this year / acres total

±

% this year / % total since 2012

S

# 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

ВМР	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	implemente d	The DPW and Parks and Recreation have a formal training program in place		Various	Ongoing		
6-2 Implement MS4 property and operations maintenance	implemente d	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	implemente d	Town currently works with DOT		DPW, Zoning, Wetlands	Ongoing		
6-4 Develop/implement program to control other sources of pollutants to the MS4	implemente d 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
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.		DPW	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	Implemente d	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	Implemente d	Catch basin cleaning has been occurring for many years.	Measured material and number of basins tracked	DPW	Ongoing

DPW

Implemente

Ы

Changed to salt on roads, sand only when needed. Proper storage of winter materials. DEEP approved wash facility for

Ongoing

6-12 Develop/implement snow management practices

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

vehicles.

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

Me	tri	ics

Employee training provided for key staff Street sweeping	(y/n) / date(s)
Curb miles swept Volume (or mass) of material collected Catch basin cleaning	550 miles 500 TONS
Total catch basins in priority areas  Total catch basins in MS4  Catch basins inspected  Catch basins cleaned  Volume (or mass) of material removed from all catch basins  Volume removed from catch basins to impaired waters (if known)	3100 9000 2603 2603 75 Tons 10 Tons
Snow management  Type(s) of deicing material used  Total amount of each deicing material applied  Type(s) of deicing equipment used  Lane-miles treated  Snow disposal location  Staff training provided on application methods & equipment	Sand/Salt 645 Tons Spreaders 550 Miles Curb 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	g program
1.1 Indicate which stormwater pollutant(s) of concern occur(s) in yo <a href="http://s.uconn.edu/ctms4map">http://s.uconn.edu/ctms4map</a> .	our municipality or institution. This data is available on the MS4 map viewer:
Nitrogen/ Phosphorus 🔀 Bacteria 🗌 Mercu	ry Other Pollutant of Concern
1.2 Describe program status.	
Discuss 1) the status of monitoring work completed, 2) a summary of the resul Stormwater Management Plan based on monitoring results.	ts and any notable findings, and 3) any changes to the
Water quality programs for Newtown's major waterways has been u 16 years. We are adapting this program for the MS4 stormwater qua	nderway with 24 sampling points for the past lity program.
reasonable investigation, including my inquiry of those individuals responsi	ed in this document and all attachments thereto, and I certify that, based on ble for obtaining the information, the submitted information is true, accurate also statement made in this document or its attachments may be punishable General Statutes, pursuant to Section 53a-157b of the Connecticut General
Chief Elected Official or Principal Executive Officer	Document Prepared by
Print name: DANIEL C. ROSENTHAL	Print name; Robert D. S.bley
Print name: DANIEL C. ROSENTHAL  Signature / Date: A 9-19-22	Signature / Date:
	Print name: Robert D. S-bley Signature / Date:  PD 5-9/16/2022

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IV: Certification

#### Appendicies:

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

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

Certified Laboratory

US EPA CT-021 CT PH-0518

168 Railroad Hill St., Waterbury, CT 06708 • 203.757.3960 • 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:

Description.					
Laboratory Test	Result	Units	Method	Analysis Date	Analyst
Inorganic				• •	•
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
Temperalure	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
Turbidily	1	NTU	EPA 180.1	10/26/2021 11:10:00 AM	MA
Metals					
Hardness	<1.0	mg/L	EPA 200.7	11/10/2021 01:00:00 PM	TU

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Town of Newtown Public Works Fred Hurley 4 Turkey Hill Road

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Newtown, CT 06470

ACT Number: 2021100169 - 1 Sample Type: Grab Collected by: M.Acri Location/ID: Fairfield Hills - Deep Description:	Sample Date: Sample Time: Brook		Date R Project Sample		
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 Type: Grab Collected by: M.Acri Location/ID: Commerce Rd Description:	Sample Date: Sample Time:	10/26/202 11:20:00	11 Date Ro Project i Sample		
Laboratory Test	Result	Units	Method	Analysis Date	Änalyst
Inorganic	Result	Omto	monioa	Titlary 010 Date	,you
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

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Town of Newtown Public Works Fred Hurley 4 Turkey Hill Road

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Newtown, CT 06470

ACT Number: 2021100169 - 2	Sample Date:	10/26/202		eceived: 10/26/2021	
Sample Type: Grab	Sample Time:	11:20:00	Project i		
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:	10/26/202	1 Date Re	eceived: 10/26/2021	
Sample Type: Grab	Sample Time:	11:30:00	Project r	number MS4	
Collected by: M.Acri			Sample	Matrix: Stormwater	
Location/ID: Edmund Rd					
Description:					
Laboratory Test	Result	Units	Method	Analysis Date	Analyst
Laboratory Test Inorganic	Result	Units	Method	Analysis Date	Analyst
	Result	<b>Units</b> mg/L	Method EPA 350.1	Analysis Date 11/05/2021 01:56:05 PM	<b>Analyst</b> TED
Inorganic					
Inorganic Ammonia Nitrogen	<0.10	mg/L	EPA 350.1	11/05/2021 01:56:05 PM	TED
Inorganic Ammonia Nitrogen Chemical Oxygen Demand	<0.10 33	mg/L mg/L	EPA 350.1 EPA 410.4	11/05/2021 01:56:05 PM 10/28/2021 11:30:00 AM	TED RL
Inorganic Ammonia Nitrogen Chemical Oxygen Demand Nitrate (As N)	<0.10 33 <0.20	mg/L mg/L mg/L	EPA 350.1 EPA 410.4 EPA 300 EPA 300	11/05/2021 01:56:05 PM 10/28/2021 11:30:00 AM 10/27/2021 02:38:00 PM	TED RL RL
Inorganic Ammonia Nitrogen Chemical Oxygen Demand Nitrate (As N) Nitrite (As N)	<0.10 33 <0.20 <0.03	mg/L mg/L mg/L mg/L	EPA 350.1 EPA 410.4 EPA 300 EPA 300 SM 4500 Norg C	11/05/2021 01:56:05 PM 10/28/2021 11:30:00 AM 10/27/2021 02:38:00 PM 10/27/2021 02:38:00 PM	TED RL RL RL
Inorganic Ammonia Nitrogen Chemical Oxygen Demand Nitrate (As N) Nitrite (As N) Nitrogen, Total Kjeldahl	<0.10 33 <0.20 <0.03 0.64	mg/L mg/L mg/L mg/L mg/L	EPA 350.1 EPA 410.4 EPA 300 EPA 300 SM 4500 Norg C	11/05/2021 01:56:05 PM 10/28/2021 11:30:00 AM 10/27/2021 02:38:00 PM 10/27/2021 02:38:00 PM 11/01/2021 02:02:37 PM	TED RL RL RL TED
Inorganic Ammonia Nitrogen Chemical Oxygen Demand Nitrate (As N) Nitrite (As N) Nitrogen, Total Kjeldahl Oil&Grease	<0.10 33 <0.20 <0.03 0.64 1.2	mg/L mg/L mg/L mg/L mg/L mg/L	EPA 350.1 EPA 410.4 EPA 300 EPA 300 SM 4500 Norg C EPA 1664A/HEM	11/05/2021 01:56:05 PM 10/28/2021 11:30:00 AM 10/27/2021 02:38:00 PM 10/27/2021 02:38:00 PM 11/01/2021 02:02:37 PM 10/29/2021 04:00:00 PM	TED RL RL RL TED RL
Inorganic Ammonia Nitrogen Chemical Oxygen Demand Nitrate (As N) Nitrite (As N) Nitrogen, Total Kjeldahl Oil&Grease pH	<0.10 33 <0.20 <0.03 0.64 1.2 7.71	mg/L mg/L mg/L mg/L mg/L mg/L S.U.	EPA 350.1 EPA 410.4 EPA 300 EPA 300 SM 4500 Norg C EPA 1664A/HEM SM 4500-H+B	11/05/2021 01:56:05 PM 10/28/2021 11:30:00 AM 10/27/2021 02:38:00 PM 10/27/2021 02:38:00 PM 11/01/2021 02:02:37 PM 10/29/2021 04:00:00 PM 10/26/2021 11:30:00 AM	TED RL RL RL TED RL MA
Inorganic Ammonia Nitrogen Chemical Oxygen Demand Nitrate (As N) Nitrite (As N) Nitrogen, Total Kjeldahl Oil&Grease pH Phosphorus, Total	<0.10 33 <0.20 <0.03 0.64 1.2 7.71 0.872	mg/L mg/L mg/L mg/L mg/L mg/L S.U.	EPA 350.1 EPA 410.4 EPA 300 EPA 300 SM 4500 Norg C EPA 1664A/HEM SM 4500-H+B SM 4500 -PE	11/05/2021 01:56:05 PM 10/28/2021 11:30:00 AM 10/27/2021 02:38:00 PM 10/27/2021 02:38:00 PM 11/01/2021 02:02:37 PM 10/29/2021 04:00:00 PM 10/26/2021 11:30:00 AM 10/27/2021 11:00:00 AM	TED RL RL TED RL MA TED
Inorganic Ammonia Nitrogen Chemical Oxygen Demand Nitrate (As N) Nitrite (As N) Nitrogen, Total Kjeldahl Oil&Grease pH Phosphorus, Total Rainfall pH	<0.10 33 <0.20 <0.03 0.64 1.2 7.71 0.872 6.57	mg/L mg/L mg/L mg/L mg/L s.U. mg/L S.U.	EPA 350.1 EPA 410.4 EPA 300 EPA 300 SM 4500 Norg C EPA 1664A/HEM SM 4500-H+B SM 4500-PE SM 4500-H+B	11/05/2021 01:56:05 PM 10/28/2021 11:30:00 AM 10/27/2021 02:38:00 PM 10/27/2021 02:38:00 PM 11/01/2021 02:02:37 PM 10/29/2021 04:00:00 PM 10/26/2021 11:30:00 AM 10/27/2021 11:00:00 AM	TED RL RL TED RL MA TED MA
Inorganic Ammonia Nitrogen Chemical Oxygen Demand Nitrate (As N) Nitrite (As N) Nitrogen, Total Kjeldahl Oil&Grease pH Phosphorus, Total Rainfall pH Specific Conductance	<0.10 33 <0.20 <0.03 0.64 1.2 7.71 0.872 6.57	mg/L mg/L mg/L mg/L mg/L S.U. mg/L S.U.	EPA 350.1 EPA 410.4 EPA 300 EPA 300 SM 4500 Norg C EPA 1664A/HEM SM 4500-H+B SM 4500-PE SM 4500-H+B EPA 120.1	11/05/2021 01:56:05 PM 10/28/2021 11:30:00 AM 10/27/2021 02:38:00 PM 10/27/2021 02:38:00 PM 11/01/2021 02:02:37 PM 10/29/2021 04:00:00 PM 10/26/2021 11:30:00 AM 10/27/2021 11:30:00 AM 10/26/2021 11:30:00 AM	TED RL RL TED RL MA TED MA MA
Inorganic Ammonia Nitrogen Chemical Oxygen Demand Nitrate (As N) Nitrite (As N) Nitrogen, Total Kjeldahl Oil&Grease pH Phosphorus, Total Rainfall pH Specific Conductance Temperature	<0.10 33 <0.20 <0.03 0.64 1.2 7.71 0.872 6.57 26 14.71	mg/L mg/L mg/L mg/L mg/L S.U. mg/L S.U. uS/cm	EPA 350.1 EPA 410.4 EPA 300 EPA 300 SM 4500 Norg C EPA 1664A/HEM SM 4500-H+B SM 4500-PE SM 4500-H+B EPA 120.1 SM 2550B	11/05/2021 01:56:05 PM 10/28/2021 11:30:00 AM 10/27/2021 02:38:00 PM 10/27/2021 02:38:00 PM 11/01/2021 02:02:37 PM 10/29/2021 04:00:00 PM 10/26/2021 11:30:00 AM 10/27/2021 11:30:00 AM 10/26/2021 11:30:00 AM 10/26/2021 11:30:00 AM	TED RL RL TED RL MA TED MA MA MA

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US EPA CT-021 CT PH-0518

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Town of Newtown Public Works Fred Hurley 4 Turkey Hill Road

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Newtown, CT 06470

ACT Number: 2021100169 - 3 Sample Type: Grab Collected by: M.Acri Location/ID: Edmund Rd Description:	Sample Date: Sample Time:	10/26/202 11:30:00	21 Date Ro Project i Sample		
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		10/20/2021 05:00:00 PM	EG
ACT Number: 2021100169 - 4 Sample Type: Grab Collected by: M.Acri Location/ID: Riverside Rd Description:	Sample Date: Sample Time:	10/26/202 11:45:00		eceived: 10/26/2021 number MS4 Matrix: Stormwater	
Laboratory Test	Result	Units	Method	Analysis Date	Analyst
Inorganic	Nosuit	Omto	Motifod	rinary or Date	rmaryot
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
Specific Conductance Temperature	7 14.27	uS/cm °C	EPA 120.1 SM 2550B	10/26/2021 11:45:00 AM 10/26/2021 11:45:00 AM	MA MA
1					

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Newtown, CT 06470

			The second secon		
ACT Number: 2021100169 - 4	Sample Date:	10/26/202	21 Date R	eceived: 10/26/2021	
Sample Type: Grab	Sample Time:		Project i	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:	10/26/202	1 Date Re	eceived: 10/26/2021	
Sample Type: Grab	Sample Time:	11:50:00	Project r	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
рН	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
		20	01105105	10/00/0001 00 15 00 011	MAAD
Total Suspended Solids	12.5	mg/L	SM2540D	10/28/2021 03:45:00 PM	MAR
Total Suspended Solids Turbidity	12.5 1	mg/L NTU	SM2540D EPA 180.1	10/28/2021 03:45:00 PM 10/26/2021 11:50:00 AM	MA

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Newtown, CT 06470

Sample Date: Sample Time:		Project i	number MS4	
Result	Units	Method	Analysis Date	Analyst
			a management on moon and management	•
<1.0	mg/L	EPA 200.7	11/10/2021 01:00:00 PM	TU
573	MPN/100mL	SM 9223 B	10/20/2021 05:00:00 PM	EG
Sample Date: Sample Time:		Project r	number MS4	
Result	Units	Method	Analysis Date	Analyst
			•	3
<0.10	mg/L	EPA 350.1	11/05/2021 01:59:23 PM	TED
12	mg/L	EPA 410.4	10/28/2021 11:30:00 AM	RL
<0.20	mg/L	EPA 300	10/27/2021 05:16:00 PM	RL
<0.03	mg/L	EPA 300	10/27/2021 05:16:00 PM	RL
0.52	mg/L	SM 4500 Norg C	11/01/2021 02:04:43 PM	TED
3.4	mg/L	EPA 1664A/HEM	10/29/2021 04:00:00 PM	RL
7.54	S.U.	SM 4500-H+B	10/26/2021 12:00:00 PM	MA
0.170	mg/L	SM 4500 -PE	10/27/2021 11:00:00 AM	TED
	mg/L S.U.	SM 4500 -PE SM 4500-H+B	10/27/2021 11:00:00 AM 10/26/2021 12:00:00 PM	TED MA
0.170	· ·			
0.170 6.57	S.U.	SM 4500-H+B	10/26/2021 12:00:00 PM 10/26/2021 12:00:00 PM 10/26/2021 12:00:00 PM	MA
0.170 6.57 4	S.U. uS/cm	SM 4500-H+B EPA 120.1	10/26/2021 12:00:00 PM 10/26/2021 12:00:00 PM	MA MA
	Result <1.0 573 Sample Date: Sample Time:  Result <0.10 12 <0.20 <0.03 0.52	Result   Units	Result   Units   Method	No.

# ANALYTICAL Consulting Technology, inc

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10/20/2021 05:00:00 PM

EG

Newtown, CT 06470

E.Coli

Report Date: 11/11/2021

Date Received: 10/26/2021 ACT Number: 2021100169 - 6 10/26/2021 Sample Date: Project number MS4 Sample Type: Grab Sample Time: 12:00:00 Sample Matrix: Stormwater Collected by: M.Acri Location/ID: Rivers Edge Drive Description: **Laboratory Test** Result Units Method **Analysis Date** Analyst Metals TU Hardness <1.0 11/10/2021 01:00:00 PM mg/L EPA 200.7 Microbiology

MPN/100mL SM 9223 B

2021100169 For Analytical Consulting Technology, Inc.

4082



#### Stormwater Monitoring Report Form

#### PERMITTEE INFORMATION

Town: Town of Newtown	
Mailing Address: 4 Turkey Hill Rd, Newtown, 0	6470
Contact Person: Fred Hurley Title: E	EngineerPhone: 203-270-4300
Permit Registration #	
SAMPLING INFORMATION	
Discharge Location (Lat/Long or other description	on): Fairfield Hills, Mile Hill Rd. S & Mile Hill Rd
Please circle the appropriate area description: [	∐Industrial ⊠Commercial ⊡Residential
Receiving Water (name, basin): Pootatuck Rív	er
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

accordance with the	reported on this document were prepared under my direction or supervision in MS4 General Permit. The information submitted is, to the best of my knowledge
and belief, true, accur Authorized Official:	Frederick W. Hurley Jr. Director of Pw
	Svel W. July 1, Date: 8/85/20
Signature:	Date:



#### Stormwater Monitoring Report Form

#### PERMITTEE INFORMATION

Town: Town of Newtown			
Mailing Address: 4 Turkey Hill Rd, Newtown, 06470			
Contact Person: Fred Hurley Title: EngineerPhone: 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 11:20Water 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/Ļ	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

accordance with the N	reported on this document were prepared under my direction or supervision in IS4 General Permit. The information submitted is, to the best of my knowledge
and belief, true, accura	ite and complete.
Authorized Official:	Director of Rublic Works
Signature: _	Swell July 1. Date: 8/25/22



#### Stormwater Monitoring Report Form

### PERMITTEE INFORMATION

Town: Town of Newtown		
Mailing Address: 4 Turkey Hill Rd, Newtown, 06470		
Contact Person: Fred Hurley Title: EngineerPhone: 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 11:30Water 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

accordance with the I	reported on this document were prepared under my direction or supervision in MS4 General Permit. The information submitted is, to the best of my knowledge
and belief, true, accura	ate and complete.
Authorized Official:	Director of Rublic Works
Signature: _	Sud 27. Thuly . Date: 8/15/00



### Stormwater Monitoring Report Form

#### PERMITTEE INFORMATION

Town: Town of Newtown				
Mailing Address: 4 Turkey Hill Rd, Newtown, 06470				
Contact Person: Fred Hurley Title: EngineerPhone: 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 11:45Water 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

accordance with the M	reported on this document were prepared under my direction or supervision in S4 General Permit. The information submitted is, to the best of my knowledge
and belief, true, accurate	te and complete.
	- Director of Rublic Works
Authorized Official:	Director of public cours
Signature:	Swd W. Junly J. Date: 8/25/22
	• /



#### Stormwater Monitoring Report Form

#### PERMITTEE INFORMATION

Town: Town of Newtown		
Mailing Address: 4 Turkey Hill Rd, Newtown, 06470		
Contact Person: Fred Hurley Title: EngineerPhone: 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 11:50Water 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	500HB 7.47 S.U. Analytical Consulting Technology		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

I certify that the data accordance with the M	reported on this document were prepared under my direction or supervision in S4 General Permit. The information submitted is, to the best of my knowledge
and belief, true, accurate	e and complete.
Authorized Official:	Director of Public Works
Signature:	The W. July Date: 8/25/20



#### Stormwater Monitoring Report Form

#### **PERMITTEE INFORMATION**

- 1								
	Town: Town of Newtown							
	Mailing Address: 4 Turkey Hill Rd, Newtown, 06470							
	Contact Person: Fred Hurley Title: EngineerPhone: 203-270-4300							
	Permit Registration #							
~ ~ ~ E	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 12:00Water Temperature: 14.48 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	7.54	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		

	5.1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
accordance with the	reported on this document were prepared under my direction or supervision in I/S4 General Permit. The information submitted is, to the best of my knowledge
and belief, true, accura	ate and complete,
Authorized Official:	Director of Rublic Works
Signature;	Svel 2. Henley / Date: 8/25/27
	1 1/

Analytical Consulting Technology, Inc. 168 Railroad Hill St., Waterbury, CT 06708 203-757-3960 * 203-759-2155 (fax)									
Client/Project Name: Town of Newtown Sto							Fairfield	Hills - Deep	Brook
	•	Mile Hill Rd		Hill Rd.	Samı	ple Number:	2021100	169-1	_
	10/26/202	1			Field Tech: Weather:	MA			
Estimated Flow (GPM):  Depth of Water (ft):					Number of Containers: 5 Container Preservative: H2S04				
	Appearance					Sample Me			٠
Dry	Stagnant	Flowing			Beaker	Bottle	Sco	op-pole	
	Filtration:					Comments:			
on Site at Lab None					R	Turbidity = 1 Rainfall pH = 6.58			
			Fie	ld Paraı	meters				
<u>p</u>	<u>H</u>	<u>Ter</u>	np	Co	ond	DO	•	Chlorine	
8.01 su		14.28	14.28 °C		2 umhos		mg/L		_mg/L
Meter Calibration									
Date:	10/26/21	Time:	8:20				Mod	lel	
oH 4 oH 7	Pre-Cal. 4.31 7.91		Cond.	Pre-Cal. 1489	Post-Cal. 1413	YSI / Hanna / Sper			
oH 10	9.26	10.00							

#### 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 Container Preservative: H2S04 Depth of Water (ft): Sample Method: Appearance: Beaker · **Bottle** Scoop-pole Dry Stagnant Flowing Filtration: Comments: Turbidity = 7on Site at Lab None Rainfall pH = 6.59 Field Parameters pН Temp Cond DO **Chlorine** 14.49 °C 7.73 su 12 umhos mg/L mg/L Meter Calibration Date: 10/26/21 Time: 8:20 Model Post-Cal. Pre-Cal. Post-Cal. Pre-Cal. pH 4 4.00 Cond. 1489 1413

YSI / Hanna / Sper

pH 7

01 Ha

7.91

9,26

7.00 D.O. 10.00

Analytical Consulting Technology, Inc.  168 Railroad Hill St., Waterbury, CT 06708 203-757-3960 * 203-759-2155 (fax)									
Client/Pro	oject Name:	: Town of Ne	wtown	Stormwater ID: Edmund Rd.					
Proje	ct Location:	: Edmund Ro	J		Samr	ple Number: 2021	100169-3		
Date: 10/26/2021 Time: 11:30  Estimated Flow (GPM):				Field Tech: MA Weather: Raining  Number of Containers: 5					
	Depth of Water (ft): Container Preservative: H2S04  Appearance: Sample Method:  Dry Stagnant Flowing Beaker Bottle Scoop-pole								
on Site	Filtration: at Lab	None		<u>Comments:</u> Turbidity = 3 Rainfall pH = 6.57					
		,	Fie	ld Paraı	meters				
р	<u>H</u>	Ten	np	Cond D			Chlorine		
7.71	su	14.71		mg/Lm			_mg/L		
Meter Calibration									
Date:	10/26/21	Time:	8:20			P	Vlodel		
	Pre-Cal.	Post-Cal.		Pre-Cal.	Post-Cal.				
pH 4 4.31 4.00 Cond				1489	1413	YSI / Hanna / Sper			
pH 7 pH 10	7.91 9.26		D.O.	<u> </u>	L				

#### 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 Field Tech: MA Date: 10/26/2021 Time: 11:45 Weather: Raining Estimated Flow (GPM): Number of Containers: 5 Depth of Water (ft): Container Preservative: H2S04 Appearance: Sample Method: **Bottle** Scoop-pole Stagnant Flowing Beaker Dry Filtration: Comments: at Lab Turbidity = 9 on Site None Rainfall pH = 6.58 Field Parameters Cond DO Chlorine pH Temp mg/L 14.27 °C 7 umhos 7.67 su mg/L Meter Calibration 10/26/21 Time: 8:20 Model Date: Pre-Cal. Post-Cal. Pre-Cal. Post-Cal. 4.00 Cond. pH 4 4.31 1489 1413 YSI / Hanna / Sper

pH 7

pH 10

7.91

9.26

7.00 D.O.

10.00

#### 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. Sample Number: 2021100169-5 Project Location: Washington Ave. & Riverside Rd. Date: 10/26/2021 Field Tech: MA Weather: Raining Time: 11:50 Number of Containers: 5 Estimated Flow (GPM): Container Preservative: H2S04 Depth of Water (ft): Sample Method: Appearance: **Bottle** Scoop-pole Beaker Dry Stagnant Flowing Comments: Filtration: Turbidity = 1 at Lab on Site None Rainfall pH = 6.61 Field Parameters DO Chlorine <u>H</u>q Temp Cond 14.27 °C 5 umhos mg/L mg/L 7.47 su Meter Calibration Time: 8:20 Model 10/26/21 Date: Pre-Cal. Pre-Cal. Post-Cal. Post-Cal. pH 4 4.00 Cond. 1489 1413 YSI / Hanna / Sper pH 7 7.91 7.00 D.O. 10.00 9.26 01 Ha

#### MS4 STORMWATER FIELD SHEET

#### Analytical Consulting Technology, Inc. 168 Railroad Hill St., Waterbury, CT 06708 203-757-3960 \* 203-759-2155 (fax) Stormwater ID: River Edge Dr. Client/Project Name: Town of Newtown Sample Number: 2021100169-6 Project Location: River Edge Dr. & Walnut Tree Hill Rd. Date: 10/26/2021 Field Tech: MA Time: 12:00 Weather: Raining Estimated Flow (GPM): Number of Containers: 5 Container Preservative: H2S04 Depth of Water (ft): Sample Method: Appearance: Beaker **Bottle** Scoop-pole Dry Stagnant Flowing Comments: Filtration: Turbidity = 1at Lab None on Site Rainfall pH = 6.57 Field Parameters Chlorine DO Temp Cond pН 14.48 °C 4 umhos mg/L mg/L 7.54 su Meter Calibration Model 10/26/21 Time: 8:20 Date: Pre-Cal. Post-Cal. Pre-Cal. Post-Cal. 4.00 Cond. 1489 1413 pH4 4.31 YSI / Hanna / Sper pH7 7.00 D.O.

pH 10

7.91

9.26

10.00

Analytical Consulting Technology, Inc. 168 Railroad Hill Street, Waterbury, CT. 06708 (203) 757-3960 (203) 759-2155 (fax)

## Chain of Custody

ACT Order # 2021100 164-116

## Turnaround Time: 24-Hr 48-Hr Standard

Additional cost applies to 24 + 48 TAT

Date/Time://		PH-52	NO3	エ															ł						
Cooler Temp:		¥×11	오 무	Na																					
Login Custodian:	7	pH<2	S04	H2		ĺ																		mments:	Additional Comments:
	?												/	$\mathcal{H}$	,	4	de	14	100	1/2	1012	00	12	RI	July
Time	pted By:	Acce												By:	shed	quis	Relin	+		Date		Time		ignature:	Sampler
	»sulfate. y∕Tank	tum Thiont Facility relope.	= Sodi atmer = Env		ulfate il T: taine	er S = So I Con	<u> </u>	S = 0f		ic Ac	Sulfur Itflow Plas	B   0		roxic fic C	Hyd oring Plast	lum   lonit	M = W	A M C	EP am	Stre	_ake/Pond = Sterile	ink L=I	N = NItric A cess Unit/ Ta lastic G =	ode: IN = In Pro er Code: P = F	Source Code Container
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		E. co	TKN COD	T. Ph			NO2					-LI					Sulfu			***************	Time	Date		ample Location	S
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															8	43	270	03-	2	ne:	Client Telepho			005541	ACCT#:
												0	547	00	O	Ţ,	tov	lew	2					Fred Hurley	Contact Person:
7	Stormwate	MS4 S	tion:	script	t De	rojec	_						ad	R	曲	۲	rke	귿	. 1	ess:	Client Add		town	Town of New	Client Name:
	Cogin	Login	ater Cogin	ater Cogin	SIS REQUIRED  SIS REQUIRED    T. Phosphorous   TKN   COD   C	SIS REQUIRED  SIS REQUIRED    T. Phosphorous   TKN   COD   C	SIS REQUIRED  SIS REQUIRED    T. Phosphorous   TKN   COD   C	ANALYSIS REQUIRED  ANALYSIS REQUIRED    Noo2	ANALYSIS REQUIRED  Analysis Bag Ma Metal Container N = Envelope.  Accepted By:  Accepted	ANALYSIS REQUIRED  ANALYSIS REQU	ANALYSIS REQUIRED  ANALYSIS REQU	ANALYSIS REQUIRED  ANALYSIS REQU	ANALYSIS REQUIRED  ANALYSIS REQU	ANALYSIS REQUIRED  ANALYSIS REQU	ANALYSIS REQUIRED  ANALYSIS REQU	ANALYSIS REQUIRED  ANALYSIS REQU	ANALYSIS REQUIRED  ANALYSIS REGUIRED  ANALYSIS REQUIRED  ANALYSIS REQU	ANALYSIS REQUIRED  ANALYSIS REGUIRED  ANALYSIS REQUIRED  ANALYSIS REQU	ANALYSIS REQUIRED  ANALYSIS REGUIRED  ANALYSIS REQUIRED  ANALYSIS REQU	Client Address:   A Turkey Hill Road   Newtown, CT 06470   Newto	Client Address: 4 Turkey HIII Road   Newtown, CT 06470   Newtown				

#### 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

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

Sample Matrix: Stormwater

Collected by: MA

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
Inorganic					
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
рН	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
Metals					
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
Organics					
Oil&Grease	4.2	mg/L	EPA 1664A/HEM	06/03/2021 04:00:00 PM	RL

## Analytical Consulting Technology, inc

168 Railroad Hill St., Waterbury, CT 06708 • 203.757.3960 • csr@actlabsct.com

For Analytical Consulting Technology, Inc	265	2021060045
, , , , , , , , , , , , , , , , , , , ,	Laboratory Director	



#### 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 <u>not</u> 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: 4 Turkey Hill Road No	ewtown CT 06470
Contact Person: Fred Hurley	Title: Director of Public Works
Business Phone: <u>203-270-4300</u>	ext.:Email: <u>Fred.Hurley@Newtown-ct.gov</u>
Site Address: 4 Turkey Hill Road, Newt	own Ct 06470
Receiving Water (name/basin):	
Permit #: GSI P	rimary 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
	<b>1</b>
Date/Time Collected: <u>06/03/2021 09:25</u>	Date of Previous Storm Event: 05/31/2021
	Date of Previous Storm Event: <u>05/31/2021</u> mi-annually ⊠ Annually □ Other □
	mi-annually 🔲 Annually 🔲 Other 🗌

#### **Monitoring Results**

Workering is		Elizabeth and a second	d one of the contract of		The second section is	The same of the subtraction of the same
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		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		SM4500 H+B	ACT
COD	Semi-annual	36 (mg/L)	75 mg/L		EPA 410.4	ACT
TSS	Semi-annual	2.5 (mg/L)	90 mg/L		SM2540D	ACT
TP	Semi-annual	0,13 (mg/L)	0.40 mg/L		SM4500 PE	ACT
TKN	Semi-annual	0.30 (mg/L)	2.30 mg/L		SM4500 Norg	ACT
NO <sub>3</sub> -N	Semi-annual	<0.20 (mg/L)	1.10 mg/L		EPA 300	ACT
Total Copper	Semi-annual	<0.01 (mg/L)	0.059 mg/L		EPA 200.7	ACT
Total Zinc	Semi-annual	<0.01 (mg/L)	0.160 mg/L		EPA 200.7	ACT
Total Lead	Semi-annual	<0.02 (mg/L)	0.076 mg/L		EPA 200.7	ACT
24 Hr. LC <sub>50</sub>	Annual-Year 1&2	NA	n/a		22a-430	ACT
48 Hr. LC50	Annual-Year 1&2	NA	n/a		22a-430	ACT

#### **Exemptions**

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: Daphnia pulex < 24 hrs old	Dilution Water Hardness:

Effluent Dilution	Numbe	er of Org Surviving	anisms g	Disso	olved Ox (mg/L)	ygen	Te	emperati (°C)	ure		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											ž.	
12.5% B												
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100% D												

#### REFERENCE TOXICANT RESULTS

Test Species	Date	Reference Toxicant	Source	LC50
Daphnia pulex				

### 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

GSI

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.

#### Average = (Sample 1+ Sample 2 + Sample 3 + Sample 4)

		Sample	Result				
Parameter	1	2	3	4	Avoraga	Benchmark*	Qualify for
Sample Date	12/9/19	6/11/20	11/11/20	6/3/21	Average	benchmark	exemption?
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,	3,000
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 resent 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

Chain of Custody Stormwater

ACT Order # 202/2600 45-1

Turnaround Time: 24-Hr 48-Hr Standard

Additional cost applies to 24 + 48 TAT

mon an (	Sampler Signature:	le: NP = Non-Preserved N. de: 1000mL=10 500m de: P = Plastic G = Glass				Outlet #4 Pipe @ Pootatuck River	Sample Location	SAMPLE INFORMATION		Sample Collected By: P.O. Number:	Account # 005541	Client Contact: Fred Hurley	Client Email:	Client Name: Town of Newtown
0925 6	Time ·	Nitric Acid HCL 0 250mL=25 = Baked Glass				63 0925	Date Time	NO NO		ber:		Client	l	Clier
6.321 ang a	Date Relinquished By:	A=Nitric Acid HCL = Hydrochloric Acid SH = Sodium L=50 250mL=25 125mL=12 BG = Baked Glass S = Sterile VOA = EPA vial C =				Storm G X X X X X X	Samp Comp 50 - 1 12 - 1 25 - 5	NA - P SP - P SP - G Vall 4 oz		Sample Type & Preserve		Client Telephone: 203-270-4300	Newtown, CT 06470	Client Address: 4 Turkey Hill Rd
\		odium Hydroxide SP= Sulfu C=Plastic Cube M=Meta				×	Lead, Zinc, Kjeld Phosp COD	ahl, Total horus, To			es.			
	Time Date	<ul><li>SP:= Sulfuric Acid</li><li>M = Metal Container N = Envelope.</li></ul>				XXX	TSS Nitrat pH Rainf	all pH Cyanide ide		ANALYSIS REQUIRED		Semi-Annual		Project Description: Sector G
a an	Accepted By:					×	Vissu	als		EQUIRED				or G
Bou	Time								0.000		-			_  _
6/3/2	Date										Instructions	Special	Comments	Additional

Revised: 12/27/2019

NAOH pH >11 HNO3 pH <2 H2SO4 pH<2

Client Needs SMR: Yes or No

Laboratory Use Only

Log in Custodian

Date 6 3

Evidence of Cooling: Fee or No Cooler Temp: 6.3

)

Other Attachments:

#### Quarterly Visual Monitoring Report Form

Outfall No: Newtown #	44	Quarte	r: 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/T	ime Exan	nined: <u>6/3/2</u>	21 9:20	5
Rainfall Amount: 0.1in		Qualify	ing Storn	n? Yes	No	
Runoff Source: Rain	nfall Snowmelt	•		peggagasa		
Examiner (print): Marc	Achien all Zacilles	Examir	ner (sign):	My	. 1	2-
α /			( 0 )			
PARAMETER	OBSERVATION	J .		CHARA	CTERI	STICS-
Color	Does the stormwater app be colored? YES	pear to	Describe:		S.	
Odor	Does the sample have an YES	n odor? NO	Describe:	9		
Clarity	Is the stormwater clear of transparent? YES	or NO	Which be	st describes t MILKY		ity? QUE
Floating Solids	Is something floating on surface of the sample? YES	the NO	Describe:			
Settled Solids	Is something settled on t bottom of the sample? YES	he NO	Describe:			
Suspended Solids	Is something suspended sample's water column?	in the	Describe:	Some debris	•	
Foam	Is there foam or material forming on the top of the sample surface?  YES	63.	Describe:			
Oil Sheen	Can you see a rainbow e sheen on the surface? YES	ffect or	Rainboy Describe:	sts describes v Sheen		en? oating oil globules
Other Obvious Indicators of Pollution			Describe:			
Based on the conditions ob		e potenti	al that the	facility's cu	rrent c	ontrol measures
are inadequate or require i	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 Lu. Hurley Jr.  Name of Permittee (print or type)	Director of Public Work. Title (if applicable)				
Signature of Preparer (if different than above)	6/16/21 Date				
Name of Preparer (print or type)	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

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:

Date Received: 06/03/2021 06/03/2021

Sample Type: Grab

Project number Semi-Annual

Collected by: MA

Sample Time: 09:15:00

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
Inorganic					
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
рН	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
Metals					
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

## 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

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 Sample Matrix: Stormwater

Collected by: MA

Description:

Organics

Oil&Grease

Location/ID: Outlet #1 Small Pond

Laboratory Test

Result Units Method Analysis Date Analyst

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 <u>not</u> submit if you have other sector specific requirements)

#### **Facility Information**

	Demaille a News Town of Newtone
	Permittee Name: <u>Town of Newtown</u> Site Name: <u>Town of Newtown</u>
	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:
ı	Discharges into an Impaired Waterbody: Yes   No (If yes, complete the table on page 3 of this form)
ĮĮ.	The Mary and the arranged that are the mary and the Mary and the table on page 5 of this form,
	The large the arringance valerseay. The large transfer and the able of page of a motionly
5	ample Information
	ample Information
5	ample Information
	ample Information  Sample Location: Outlet #1 Person Collecting Sample: M.Acri
	Sample Location: Outlet #1 Person Collecting Sample: M.Acri Date/Time Collected: 06/03/2021 09:15 Date of Previous Storm Event: 05/31/2021
	ample Information  Sample Location: Outlet #1 Person Collecting Sample: M.Acri  Date/Time Collected: 06/03/2021 09:15 Date of Previous Storm Event: 05/31/2021  This report is for samples required: Semi-annually ☐ Annually ☐ Other ☐

#### **Monitoring Results**

monte mig recent										
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		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		SM4500 H+B	ACT				
COD	Semi-annual	71 (mg/L)	75 mg/L		EPA 410.4	ACT				
TSS	Semi-annual	41.0 (mg/L)	90 mg/L		SM2540D	ACT				
TP	Semi-annual	0.370 (mg/L)	0.40 mg/L		SM4500 PE	ACT				
TKN	Semi-annual	1,32 (mg/L)	2.30 mg/L		SM4500 Norg	ACT				
NO <sub>3</sub> -N	Semi-annual	<0.20 (mg/L)	1.10 mg/L		EPA 300	ACT				
Total Copper	Semi-annual	<0.01 (mg/L)	0.059 mg/L		EPA 200.7	ACT				
Total Zinc	Semi-annual	0.05 (mg/L)	0.160 mg/L		EPA 200.7	ACT				
Total Lead	Semi-annual	<0.02 (mg/L)	0.076 mg/L		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**

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: Daphnia pulex < 24 hrs old	Dilution Water Hardness:

Effluent Dilution	Number of Organisms Surviving			Dissolved Oxygen (mg/L)		Te	emperati (°C)	ure		pH (su)		
Hour	00	24	48	00	24	48	00	24	48	00	24	48
CONTROL 1												
CONTROL 2												
CONTROL 3												
CONTROL 4										December 1111		
6.25% A						,						
6.25% B												
6.25% C												
6.25% D												
12.5% A												
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100% A												
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100% C												
100% D												

#### REFERENCE TOXICANT RESULTS

Test Species	Date	Reference Toxicant	Source	LC50
Daphnia pulex				

#### 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 Sy. Name of Permittee (print or type)	Director of Public Work				
Signature of Preparer (if different than above)	6 /16 /2 <sup>1</sup>				
Name of Preparer (print or type)	し、ででである 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: 4 Turkey Hill Road Newtown CT	
Sample Location: Outlet #1	And the second s

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.

#### Average = (Sample 1+ Sample 2 + Sample 3 + Sample 4)

		Sample	Result				
Parameter	1	2	3	4	Average	Benchmark*	Qualify for
Sample Date	12/9/19	6/11/20	11/11/20	6/3/21	Average	Dencimark	exemption?
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 resent 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

Chain of Custody Stormwater

ACT Order # 202/0600 43-1

Turnaround Time: 24-Hr 48-Hr Standard

Additional cost applies to 24 + 48 TAT

								_						10000	Grand S
							Out	S	S		Sample Collected By:	Account # 005541	Client Contact:	Client Email:	Client Name:
				,			Outlet #1 Small Pond	Sample Location	SAMPLE INFORMATION				Fred Hurley		Town of Newtown
							63	ם	ATIO		P.O. Number:				
							63	Date	NC		ber:		L		_
		3	,				5160	Time			Ì		Client Telephone:		Client Address: 4 Turkey Hill Rd
							Storm	Samp	ole Matri	х			hone		ddre
							G	_	osite or G	_	ွှ				:SS:
							×		NP - P		Sample Type & Preserve		203-270-4300	Newtown, CT 06470	47
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						_	X	TSS	d Grease				ro.	ı	Project Description:
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Revised: 12/27/2019 ENO3 pH &

NAOH pH >11

H2SO4 pH<2

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.

Relinquished By: July

Date

Accepted By:

Time

Date

Preservative Code: NP = Non-Preserved NA = Nitric Acid HCL = Hydrochloric Acid SH = Sodium Hydroxide SP = Sulfuric Acid

Lushill

03/5

613121

Laboratory Use Only

Log in Custodian

Evidence of Cooling Yest or No Cooler Temp: 2, 3

Time Date

3011

Client Needs SMR: Yes or No

Other Attachments:

Sampler Signature:

#### Quarterly Visual Monitoring Report Form

			-4	nd Kenta	41)
Outfall No: Newtown #	1	Quarter		nd 3rd	4 <sup>th</sup> Year: <u>2021</u>
Date/Time Collected: 6	/3/21 9:15	Date/Ti	ime Examii	ned: <u>6/3/2</u>	1 9:16
Rainfall Amount: 0.1in		Qualify	ing Storm?	Yes	No
Runoff Source: Rain	nfall Snowmelt			4	
Examiner (print): Marc	Acri	Examir	er (sign):	my	a C
			_		
PARAMETER	OBSERVATION			Silver See Manual Control of the Con	CTERISTICS
Color	Does the stormwater apple be colored?	pear to NO	Describe: B	rown	
0.1	Does the sample have an		Describe:		
Odor	YES	NO			
Clarity	Is the stormwater clear of transparent? YES	or NO	Which best CLEAR	describes the	he clarity? OPAQUE
	Is something floating on	PLOWANIA 4	Describe:	IVEUSIXEI	OTAQUE
Floating Solids	surface of the sample?	-2-000-201400-			
	YES Is something settled on t	NO the	Describe:	-	
Settled Solids	bottom of the sample?	.iic	Describe.		
	YES	NO			
Suspended Solids	Is something suspended sample's water column?		Describe: So	ome debris	
suspended sonds	YES	NO			
	Is there foam or material	I	Describe: Fo	oam when p	ooured
Foam	forming on the top of the sample surface?	Э			
	YES	NO			i .
0,1,01	Can you see a rainbow e	ffect or	Which bests		M-04.2.0-00 200-00-00 - 0.0-00-00-00
Oil Sheen	sheen on the surface? YES	NO	Rainbow S Describe:	Sneen	Floating oil globules
		\$2254305744 <b>3</b>	Describe:		
Other Obvious Indicators					
of Pollution	3				
			the second secon		
Based on the conditions ob are inadequate or require		e potenti	al that the fa	icility's cui	rrent control measures
are madequate of tequires	maintenance.				
CORRECTIVE ACTIONS	TAREN	7,7			
CONCECTIVE ACTIONS	PANDI				

#### 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

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

Project number Semi-Annual

Collected by: MA

Sample Time: 09:05:00

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
Inorganic					
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
рН	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
Metals					
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
Organics					
Oil&Grease	4.9	mg/L	EPA 1664A/HEM	06/03/2021 04:00:00 PM	RL

1 :

## Analytical Consulting Technology, inc

168 Railroad Hill St., Waterbury, CT 06708 • 203.757.3960 • csr@actlabsct.com

For Analytical Consulting Technology, Inc	2.0	2021060044
	Laboratory Director	



#### 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 Newtow</u>	<u>/n                                    </u>	e: <u>Town of Newtown</u>
Mailing Address: 4 Turkey Hill Roa	ad Newtown CT 0647	0
Contact Person: Fred Hurley	Title: I	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:	
II .		(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 Pre	vious Storm Event: <u>05/31/2021</u>
This report is for samples required:	Semi-annually 🛛	Annually Dother D
Check here if the sample contains s	now or ice melt:	
Check here if a benchmark exceeds	ance is solely due to b	packground or off site sources

#### **Monitoring Results**

Astronomica de contrata de con		Long Attacker (vol. vom fort	Interess transmission of the contract of	La construit de la construit d	Inches and the second control	Sandhelman a ferentetan elleriste an
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		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		SM4500 H+B	ACT
COD	Semi-annual	34 (mg/L)	75 mg/L		EPA 410.4	ACT
TSS	Semi-annual	15.0 (mg/L)	90 mg/L		SM2540D	ACT
TP	Semi-annual	0.144 (mg/L)	0.40 mg/L		SM4500 PE	ACT
TKN	Semi-annual	0.490 (mg/L)	2.30 mg/L		SM4500 Norg	ACT
NO <sub>3</sub> -N	Semi-annual	0.223 (mg/L)	1.10 mg/L		EPA 300	ACT
Total Copper	Semi-annual	<0.01 (mg/L)	0,059 mg/L		EPA 200.7	ACT
Total Zinc	Semi-annual	0.03 (mg/L)	0.160 mg/L		EPA 200.7	ACT
Total Lead	Semi-annual	<0.02 (mg/L)	0,076 mg/L		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**

**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: Daphnia pulex < 24 hrs old	Dilution Water Hardness;	

Effluent Dilution	Numbe	er of Org Survivin	anisms g	Diss	olved O: (mg/L)	kygen	Te	emperat (°C)	ure		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									-			
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50% D												
100% A												
100% B												
100% C												
100% D												

#### REFERENCE TOXICANT RESULTS

Test Species	Date Reference Toxicant	Source	LC <sub>60</sub>
Daphnia pulex			

### 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: Town of Newtown	
Site Address: 4 Turkey Hill Road Newtown CT	
Sample Location: Outlet #2	

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.

#### Average = (Sample 1 + Sample 2 + Sample 3 + Sample 4)

		Sample	Result				
Parameter	1	2	3	4	Average	Benchmark*	Qualify for
Sample Date	12/9/19	06/11/20	11/11/20	6/3/21	Average	Denominark	exemption?
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	80.0	0.03	0.130	0.160 mg/L	
Total Lead	<0.02	<0.02	<0.02	<0.02	<0.02	0.076 mg/L	

<sup>\*</sup>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 resent 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

ACT Order # 202120044-1

## Turnaround Time: 24-Hr 48-Hr Standard

Chain of Custody Additional cost applies to 24 + 48 TAT

HNO3 pH <2		110	Ti					
H2SO4 pH<2	Evidence of Cooling: Zes or No	Date 6/3	Log in Custodian Date					Other Attachments: Yes or No
				Laboratory Use Only	Ţ			
refer as	000			,	Charg R	6/3/21	0925	Man de
Time Date	Accepted By:	Date	Time		Relinquished By:	Date	Time	ampler Signature:
	,	M = Metal Container N = Envelope.	Metal Container	C=Plastic Cube M=M	125mL=12 rrile VOA=EPA vial C=F	L=50 250mL=25 125n BG = Baked Glass S = Sterile	500mL=50 250 Flass BG = Baked	de:
			firic Acid	Hudrovide CD = Cu	NP = Non-Preserved NA = Nitric Acid HCL = Hydrochloric Acid SH = Sodium Hydroxide SD =	HCL = Hydrochl	NA = Nitric Aci	Preservative Code: NP = Non-Preserve
	X	XX	XXXX	XXXXXX	XXXXX	Storm Storm	6/3 0	Outlet #2 Turkey Hill
	Vissu	Total Chlor	Oil & TSS Nitra	Lead, Zinc, Kjeld	12 - 3 25 - 5 10 - 5 Raint	Comp	Date '	Sample Location
	als		Grease	er, Total Total Total ahl, Total ohorus, Tot	NA - P SP - P SP - G Tall 4 oz SH - P	ole Matrix osite or Grab	ATION	SAMPLE INFORMATION
				al		)		
0004-1-00-001	ALYSIS REQUIRED	YSIS R	ANA		Sample Type & Preserve	Samp	P.O. Number:	ample Collected By:
Instructions								ccount # 005541
Special &		unual	Semi-Annual		203-270-4300	Client Telephone: 20		lient Contact: Fred Hurley
Comments					Newtown, CT 06470	Z		lient Email:
Additional	Sector G		Project Description:		Turkey Hill Rd	Client Address: 4 Turkey Hill Rd		lient Name: Town of Newtown

Revised: 12/27/2019

#### Quarterly Visual Monitoring Report Form

			at	md Feessal	+h	
Outfall No: Newtown #2		Quarter	$: 1^{st} 2$	e <sup>nd</sup> grd	4 <sup>th</sup> 7	Year: 2021
Date/Time Collected: 6/3/21 9:05		Date/Time Examined: 6/3/21 9:06				
Rainfall Amount: 0.1in		Qualify	ing Storm	? Yes	No	
Runoff Source: Rain	nfall Snowmelt					
Examiner (print): Marc Acri		Examin	ner (sign): _	augus	a	
			_			
PARAMETER	OBSERVATIO	N		CHARAC	TERIS	TICS
Color	Does the stormwater apple be colored? YES	pear to	Describe:			
Odor	Does the sample have as	Parketan	Describe: S	light waste	smell	
Clarity	Is the stormwater clear of transparent? YES	or NO	Which best	describes the	he clarity OPAÇ	
Floating Solids	Is something floating on surface of the sample? YES		Describe:			<u> </u>
Settled Solids	Is something settled on the bottom of the sample?	Control of the contro	Describe: D	Pirt	**************************************	
Suspended Solids	Is something suspended sample's water column? YES		Describe:			
Foam	Is there foam or materia forming on the top of the sample surface? YES		Describe:			
Oil Sheen	Can you see a rainbow e sheen on the surface? YES	effect or	Which bests Rainbow Describe:			n? ating oil globules
Other Obvious Indicators of Pollution			Describe:			
Based on the conditions ob		ie potenti	al that the f	acility's cu	rrent co	ntrol 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	8/25/27 Date				
Name of Permittee (print or type)	Director of PW Title (if applicable)				
QlQ CS	6/16/21				
Signature of Preparer (if different than above)	Date				
D. Carew	Director				
Name of Preparer (print or type)	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