# **Year 3 Annual Report**

# Massachusetts Small MS4 General Permit Reporting Period: July 1, 2020-June 30, 2021

\*\*Please DO NOT attach any documents to this form. Instead, attach all requested documents to an email when submitting the form\*\*

Unless otherwise noted, all fields are required to be filled out. If a field is left blank, it will be assumed the requirement or task has not been completed. Please ONLY report on activities between July 1, 2020 and June 30, 2021 unless otherwise requested.

# **Part I: Contact Information**

Name o	of Municipality or Organi	zation: Town of Med	way				
EPA N	PDES Permit Number: M	AR041132					
Primaı	ry MS4 Program Manag	er Contact Informa	tion				
Name:	Stephanie Carlisle		Title:	Compliance	e Coordin	nator	
Street A	Address Line 1: 45 Hollis	on Street					
Street A	Address Line 2:						
City:	Medway State: MA Zip Code: 02053						
Email:	scarlisle@townofmedway	org.	Phor	ne Number: (	(508) 321	-4871	
	water Management Prog						0 /
SWMP	Location (web address):	https://www.townofi	medway.	org/stormwa	ter-mana	gement/web	forms/reports
Date S	WMP was Last Updated:	Jun 8, 2021					
If the S	SWMP is not available on	the web please provi	de the ph	ysical addres	SS:		

# Part II: Self-Assessment

First, in the box below, select the impairment(s) and/or TMDL(s) that are applicable to your MS4. Make sure you are referring to the most recent EPA approved Section 303(d) Impaired Waters List which can be found here: https://www.epa.gov/tmdl/region-1-impaired-waters-and-303d-lists-state

interpolities	The second secon	The second secon		
<u>Impairment(</u>	<u>s)</u>			
	<ul><li>☑ Bacteria/Pathogens</li><li>☑ Solids/ Oil/ Grease (Hy</li></ul>	☐ Chloride drocarbons)/ Meta	☐ Nitrogen	
TMDL(s)				
In State:	☐ Assabet River Phospho	rus 🗵 Bact	eria and Pathogen	☐ Cape Cod Nitrogen
		ed Phosphorus	☐ Lake and Pon	d Phosphorus
Out of State:	☐ Bacteria/Pathogens	☐ Metals	☐ Nitrogen	☐ Phosphorus
			C	Clear Impairments and TMDLs
Year 3 Requir	ted and screened all outfalls, ed outfall/interconnection pror inspections as necessary	/interconnections (o	excluding Problem a d on the information	•
any additional impacts of Co		of the above year 3 erequirement that	3 requirements could could not be comple	
	is in the process of updating ections, which were complete		_	mation collected during dry
Annual Requi	rements			

- Provided an opportunity for public participation in review and implementation of SWMP and complied with State Public Notice requirements
- ⊠ Kept records relating to the permit available for 5 years and made available to the public
- The SSO inventory has been updated, including the status of mitigation and corrective measures implemented
  - O This is not applicable because we do not have sanitary sewer
  - This is not applicable because we did not find any new SSOs

<ul> <li>The updated SSO inventory is attached to the email submission</li> <li>The updated SSO inventory can be found at the following website:</li> </ul>
Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters
☑ Provided training to employees involved in IDDE program within the reporting period
☑ Updated system map due in year 2 as necessary
Enclosed all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities
□ Updated inventory of all permittee owned facilities as necessary
☐ O&M programs for all permittee owned facilities have been completed and updated as necessary
Implemented all maintenance procedures for permittee owned facilities in accordance with O&M programs
☐ Implemented program for MS4 infrastructure maintenance to reduce the discharge of pollutants
☐ Inspected all permittee owned treatment structures (excluding catch basins)
Optional: If you would like to describe progress made on any incomplete requirements listed above, provide any additional information, and/or if any of the above annual requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:  1. The town prioritized creating a SWPPP for the new DPW Complex; and therefore, the O&M program update is incomplete.
2. The O&M maintenance procedures for all permittee owned facilities will be addressed in the upcoming
year. 3. The DPW is developing a MS4 infrastructure maintenance program. 4. The DPW began locating, mapping, and inspecting the treatment structures in town; however, the task is
incomplete at this time.
Bacteria/ Pathogens (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable) <u>Annual Requirements</u>
Public Education and Outreach*
Annual message was distributed encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
Permittee or its agents disseminated educational material to dog owners at the time of issuance or renewal of dog license, or other appropriate time
Provided information to owners of septic systems about proper maintenance in any catchment that discharges to a water body impaired for bacteria

Town of Medway

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\* Public education messages can be combined with other public education requirements as applicable (see Appendix H and F for more information)

*Optional:* If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

- 1. The DPW partnered with the Town Clerks office and the dog licensing portal provider so we will have messaging disseminated to dog owners at the time of issuance and/or renewal of dog licenses during Year 4. The DPW is waiting for new educational signs to be posted in the town's dog park as well.
- 2. The DPW will partner with the BOH to distribute information about septic system maintenance.

Phosphorus (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable)

## **Annual Requirements**

Public Education and Outreach\*

- Distributed an annual message in the spring (April/May) encouraging the proper use and disposal of grass clippings and encouraging the proper use of slow-release and phosphorus-free fertilizers
- Distributed an annual message in the summer (June/July) encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
- Distributed an annual message in the fall (August/September/October) encouraging the proper disposal of leaf litter
- \* Public education messages can be combined with other public education requirements as applicable (see Appendix H and F for more information)

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

⊠ Increased street sweeping frequency of all municipal owned streets and parking lots subject to Permit part 2.3.7.a.iii.(c) to a minimum of two times per year (spring and fall)

### Potential structural BMPs

	Any structural BMPs already existing or installed in the regulated area by the permittee or its agents
_	was tracked and the phosphorus removal by the BMP was estimated consistent with Attachment 3 to
	Appendix F. The BMP type, total area treated by the BMP, the design storage volume of the BMP and
	the estimated phosphorus removed in mass per year by the BMP were documented.

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<b>L</b> - /	1110	1 2 1 2 1 1	111117111	14111711	1.7	anachea	107 1110	CHIAH	- outhingolott

0	The BMP information can be found at the following website:

*Optional:* If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

During Year 3 the DPW reviewed past plans to identify existing stormwater structures. The known BMPs have been mapped. BMPs have been entered into the BATT tool; however, the Town cannot claim phosphorus removal credit because they have not been maintained. Furthermore, the DPW is still trying to determine the impervious/pervious ratios and land use for each BMP drainage area. Many of the stormwater structures identified in past plans do not include the details needed to complete the BATT tool calculations, so additional investigations are required. In order to gauge what the town currently has for BMPs (and their phosphorus reduction credits when they are regularly maintained), the DPW entered the BMPs into the BATT tool using a few assumptions including: each BMP has been maintained, each drainage area is 50%

Page 5 Town of Medway impervious and 50% pervious, all infiltration basins infiltrate at 1.02inches/hour, anything labeled as a

"retention" structure in a plan was deemed a "bioretention" structure, anything labeled as "infiltration" structure in a plan was deemed an "infiltration basin" and anything labeled "detention" was deemed an "extended dry detention basin." However, as the DPW continues to investigate these structures, we will update

the BATT tool with corrected information.
Charles River Watershed Phosphorus TMDL
☐ Completed the funding source assessment
Optional: If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:
During Year 3, we worked to identify and map our existing BMPs and calculate the phosphorus removal using the BATT tool. We are currently working on cost estimates to maintain what we have and are examining the costs of adding new BMPs throughout town in order to meet the Charles River TMDL requirements.
Optional: Use the box below to provide any additional information you would like to share as part of your self-assessment:
The DPW will be using the Phosphorus Control Plan template created by the Charles River Watershed Association and Kleinfelder.

# Part III: Receiving Waters/Impaired Waters/TMDL

Have you made an	y changes to yo	our lists of recei	ving waters, or	utfalls, or impairm	ents since the NO	I was
submitted?						

YesNo

If yes, describe below, including any relevant impairments or TMDLs:

The DPW updated the outfall inventory. We corrected information that was misidentified in the field (i.e. culverts recorded as outfalls) and also found more outfalls while doing inspections. There are now 487 outfalls.

The updated List of Impaired Waters changed Chicken Brook (segment 72-34) from a Category 2 water to a Category 5 water with E.coli as the listed impairment. Hopping Brook (segment 72-35) was also changed from a Category 2 water to a Category 5 water with E.coli as the listed impairment. This change was incorporated during Year 2.

# **Part IV: Minimum Control Measures**

Please fill out all of the metrics below. If applicable, include in the description who completed the task if completed by a third party.

MCM1: Public Education
Number of educational messages completed <b>during this reporting period</b> : 7
Below, report on the educational messages completed during this reporting period. For the measurable goal(s) please describe the method/measures used to assess the overall effectiveness of the educational program.  BMP:Leaf Litter Management
Message Description and Distribution Method:
Message distributed on the Town's Facebook page "Help protect our waterways by keeping yards, driveways, and sidewalks clear of leaves and debris. 60% of the annual phosphorus yield comes from leaf litter in the fall." The post included a link to the Think Blue Massachusetts education campaign as well.
Targeted Audience: Residents
Responsible Department/Parties: DPW Operations
Measurable Goal(s):
1,347 people reached, 74 engagements, 5 likes, 1 comment, and 2 shares.
Message Date(s): October 5, 2020
Message Completed for: Appendix F Requirements   Appendix H Requirements   Was this message different than what was proposed in your NOI? Yes   No ○
If yes, describe why the change was made:
We wanted to focus specifically on leave litter management as it relates to phosphorus loading as opposed to landscape management in general. By using the Town's social media accounts, we are able to reach a large audience and the message can easily be shared among residents and groups.

# **BMP:Stormwater 101**

Message Description and Distribution Method:

Using the Town's social media account, we were able to send general awareness messaging to the public. The intent is to familiarize the public with stormwater and how it relates to the places we like to swim, fish, boat etc.

Targeted Audience: Residents	
Responsible Department/Partie	DPW Operations

Town of Medway Page	8
Measurable Goal(s):	
1,078 people reached, 23 engagements, 5 likes, 1 comment, and 2 shares.	
Message Date(s): April 9, 2021	
Message Completed for: Appendix F Requirements ⊠ Appendix H Requirements □	
Was this message different than what was proposed in your NOI? Yes    No    ○	
If yes, describe why the change was made:	
General stormwater and MS4 education is planned to take place during community events so there can be a dialogue. However, the community events were canceled again this year due to the pandemic.	a
BMP: Landscape Management and Nutrient Education	
Message Description and Distribution Method:	
Social media post stated the following, "You can help conserve water and improve the Charles River water quality right in your own backyard! Did you know a lawn only needs 1 inch of water per week to stay gree Please remember a water ban in effect starting on May 1 (use a rain barrel to collect FREE stormwater). All apply fertilizers only as needed (especially phosphorus-based fertilizers.) Excess phosphorus is a significar issue in our Charles River Watershed. It causes algae blooms which removes oxygen from the water, killin fish and other wildlife. It can even be toxic to humans. The EPA issued a phosphorus removal requirement the 36 towns in the watershed, and Medway is charged with removing 882 pounds per year! From a perspective, we are currently able to remove approximately 150 pounds per year. Do your part by applying only what you need, get your soils tested, and clean up fertilizers that spill on driveways and walkways." A link to the Think Blue Massachusetts campaign was included in the post as well.	en? lso, nt ng t for
Targeted Audience: Residents	
Responsible Department/Parties: DPW Operations	
Measurable Goal(s):	
1,910 people reached, 100 engagements, 18 likes, 2 comments, and 3 shares.	
Message Date(s): April 15, 2021	
Message Completed for: Appendix F Requirements   ☐ Appendix H Requirements ☐	
Was this message different than what was proposed in your NOI? Yes   No   O	
If yes, describe why the change was made:	
Although the messaging is similar to what was proposed in the NOI, we have since learned more about the nutrient removal requirements, and therefore, the Town wanted to align this important messaging as part of larger Earth Month education campaign. Also, we wanted to show how proper lawn maintenance covers a	f a

variety of issues including water conservation and water quality.

# **BMP: Businesses Best Management Practices**

Message Description and Distribution Method:

Using the Town's social media platform, we posted the following, The Medway DPW would like to remind business owners that they play an important role in keeping our waterways clean and healthy! Follow these tips to reduce polluted runoff, prevent flooding, and make a good impression with your customers." We included a link to the Think Blue Massachusetts site as well as an image demonstrating what to do and what not to do.

Targeted Audience: Businesses, institutions and commercial facilities
Responsible Department/Parties: DPW Operations
Measurable Goal(s):
1,154 people reached, 19 engagements, and 3 likes.
Message Date(s): June 10, 2021
Message Completed for: Appendix F Requirements ☑ Appendix H Requirements □
Was this message different than what was proposed in your NOI? Yes  ● No ○
If yes, describe why the change was made:
The message doesn't differ from what was proposed in the NOI; however, in Year 4 we will send out brochures to all businesses in Town with a more targeted outreach effort.
BMP:Pet Waste Management  Message Description and Distribution Method:
Messages posted on Town's social media account, "Did you know there are over 1500 licensed dogs in Medway? Each of these dogs produces about ¾ pound of solid waste and over 7 billion bacteria daily. Bacteria and other parasites found in pet waste, such as Giardia and Cryptosporidium, can survive for long periods when left on the ground. During a rainstorm, these pollutants can be washed into local rivers and ponds! So scoop the poopit's the right thing to do!" A link to the Think Blue Massachusetts page was also included in the post.
Targeted Audience: Residents
Responsible Department/Parties: DPW Operations
Measurable Goal(s):
13,743 people reached, 1,067 engagements, 71 likes, 2 comments, and 15 shares.
Message Date(s): June 14, 2021. June 21, 2021. June 28, 2021.
Message Completed for: Appendix F Requirements ☐ Appendix H Requirements ⊠

Yes 

No 

O

Was this message different than what was proposed in your NOI?

If yes, describe why the change was made:
The message did not change but the distribution method did. This was our most successful outreach messaging
of the reporting year.
Add an Educational Message
MCM2: Public Participation
Describe the opportunity provided for public involvement in the development of the Stormwater Management Program (SWMP) during this reporting period:
On the Town's Stormwater Management web page, there is a link for the public to leave comments on the Stormwater Management Program. They may also report a violation if they see it. This opportunity is available for residents 24/7.
Was this opportunity different than what was proposed in your NOI? Yes ○ No ●
Describe any other public involvement or participation opportunities conducted <b>during this reporting period</b> :  During this reporting period, the Town participated in the Charles River Watershed Flood Model project.  There were several opportunities for the public to comment on how stormwater is managed within the Town.  Also, the Town is currently updating its Master Plan, and there have been numerous opportunities for residents to comment stormwater management in Town.
MCM3: Illicit Discharge Detection and Elimination (IDDE)
Sanitary Sewer Overflows (SSOs)  Check off the box below if the statement is true.  This SSO section is NOT applicable because we DO NOT have sanitary sewer
Below, report on the number of SSOs identified in the MS4 system and removed during this reporting period.  Number of SSOs identified: 0
Number of SSOs removed: 0
MS4 System Mapping
Optional: Provide additional status information regarding your map:
The DPW completed its stormwater mapping requirement during Year 3. All interconnections are mapped,

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catchment area delineations for all outfalls and catch basin is complete and mapped, and all known BMPs have been mapped. During this process, we corrected any errors in our culvert, manhole, catch basin, outfall and drain pipe classifications.

Screening of (	<u>Dutfalls/Interconnections</u>
results should sampling, prec	lease submit any outfall monitoring results from this reporting period. Outfall monitoring include the date, outfall/interconnection identifier, location, weather conditions at time of ripitation in previous 48 hours, field screening parameter results, and results from all analyses. Flude the updated inventory and ranking of outfalls/interconnections based on monitoring results.
0	No outfalls were inspected
•	The outfall screening data is attached to the email submission
0	The outfall screening data can be found at the following website:
Below, report o	on the number of outfalls/interconnections screened during this reporting period.
	Number of outfalls screened: 468
Below, report	on the percent of outfalls/interconnections screened <b>to date</b> .
<i>1</i>	
	Percent of outfalls screened: 100
Optional: Pro-	vide additional information regarding your outfall/interconnection screening:
Catchment In	vestigations
	lease submit all data collected during this reporting period as part of the dry and wet weather
_	Also include the presence or absence of System Vulnerability Factors for each catchment.
	No catchment investigations were conducted
O	The catchment investigation data can be found at the following website:
Below, report o	on the number of catchment investigations completed during this reporting period.
	Number of catchment investigations completed this reporting period: 8
Below, report of	on the percent of catchments investigated <b>to date.</b>
	Percent of total catchments investigated: 2
Ontional · Prov	vide any additional information for clarity regarding the catchment investigations below:
-	Calls have been inspected. When there was flow present the DPW took a sample and tested for
	ionia, conductivity, salinity, pH, temperature, detergent, total phosphorus and E.coli. Phosphorus

and E.coli samples were assessed a laboratory and based upon the results, we would determine if a catchment

area investigation was needed. If the results were within the allowable limit as defined by the Massachusetts Surface Water Quality Standards, then DPW did not conduct an investigation, if they exceeded the limits we looked at plans, septic pump out records, sewer connections, land use etc to try and identify a cause and or a source. We conducted additional sampling and used a camera to rule out cross connections. Catchment area investigations for results that detected detergent are planned for Year 4.

## **IDDE Progress**

If illicit discharges were found, please submit a document describing work conducted over this reporting
period, and cumulative to date, including location source; description of the discharge; method of discovery,
date of discovery; and date of elimination, mitigation, or enforcement OR planned corrective measures and
schedule of removal.

$\bigcirc$	No illicit discharges were found
•	The illicit discharge removal report is attached to the email submission
0	The illicit discharge removal report can be found at the following website:

Below, report on the number of illicit discharges identified and removed, along with the volume of sewage removed during this reporting period.

Number of illicit discharges identified:	18	
Number of illicit discharges removed:	2	
Estimated volume of sewage removed:	0	gallons/day

Below, report on the total number of illicit discharges identified and removed to date. At a minimum, report on the number of illicit discharges identified and removed since the effective date of the permit (July 1, 2018).

Total number of illicit discharges identified:	19
Total number of illicit discharges removed:	2

*Optional:* Provide any additional information for clarity regarding illicit discharges identified, removed, or planned to be removed below:

Explanations are included in the IDDE report and included in the catchment area discussion above.

# **Employee Training**

Describe the frequency and type of employee training conducted **during this reporting period**:

The DPW field staff who implement the IDDE program watched the "Illicit Discharge Detection & Elimination (IDDE) (Module 1): MS4 Permit Compliance Workshop" video as a refresher. They also watched "Finding & Fixing Hidden Sources of Water Pollution: Illicit Discharge Detection & Elimination" video. They also watched information videos on cyanobacteria. The DPW staff was trained on the SWPPP on June 29, 2021.

# MCM4: Construction Site Stormwater Runoff Control

# **Green Infrastructure Report**

Describe the status of the green infrastructure report due in year 4 of the permit term, including the findings and progress towards making the practice allowable:		
DPW compliance coordinator is beginning the review process.		
Retrofit Properties Inventory  Describe the status of the inventory, due in year 4 of the permit term, of permittee-owned	I proportion that aculd	
be modified or retrofitted with BMPs to mitigate impervious areas and report on any proprediction or retrofitted:		
This item is completed. The Town secured funding to design BMPs at two of the location plan.	ns identified in the	
MCM6: Good Housekeeping		
Catch Basin Cleaning Below, report on the number of catch basins inspected and cleaned, along with the total v removed from the catch basins during this reporting period.	volume of material	
Number of catch basins inspected: 2,140		
Number of catch basins cleaned: 2,140		
Total volume or mass of material removed from all catch basins: 153	tons	
Below, report on the total number of catch basins in the MS4 system.		
Total number of catch basins: 2,598		
If applicable:		
Report on the actions taken if a catch basin sump is more than 50% full during two conseinspections/cleaning events:	ecutive routine	
Street Sweeping		

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Town of Medway

Report on street sweeping completed during this reporting period using <u>one</u> of the three metrics below.

Town of Medway			Page 15
Number of miles cleaned: 177	7		
O Volume of material removed:		[Select Units]	
Weight of material removed:		[Select Units]	
Stormwater Pollution Prevention Plan (SW Below, report on the number of site inspection reporting period.  Number of site inspections con	ns for facilities th	at require a SWPPP comp	pleted <b>during this</b>
Describe any corrective actions taken at a fac	ility with a SWP	PP:	
N/A			
Ado	litional Inforn	nation	
Monitoring or Study Results			
Results from any other stormwater or receiving reporting period not otherwise mentioned about permit effectiveness must be attached.		_	_
<ul><li>Not applicable</li></ul>			
O The results from additional rep	•		
C The results from additional rep	ports or studies ca	an be found at the following	ng website(s):
If such monitoring or studies were conducted entities were reported to you, a brief description described below:			
Additional Information			
Optional: Enter any additional information reduring the reporting period. Include any BMF	-		-

## **COVID-19 Impacts**

*Optional:* If any of the above year 3 requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

Impacts from COVID-19 are listed above in their corresponding sections.	

## **Activities Planned for Next Reporting Period**

Please confirm that your SWMP has been, or will be, updated to comply with all applicable permit requirements including but not limited to the year 4 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree 🖂

- Develop a report assessing current street design and parking lot guidelines and other local requirements within the municipality that affect the creation of impervious cover
- Develop a report assessing existing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist
- Identify a minimum of 5 permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious areas

# **Annual Requirements**

- Annual report submitted and available to the public
- Annual opportunity for public participation in review and implementation of SWMP
- Keep records relating to the permit available for 5 years and make available to the public
- Properly store and dispose of catch basin cleanings and street sweepings so they do not discharge to receiving waters
- Annual training to employees involved in IDDE program
- Update inventory of all known locations where SSOs have discharged to the MS4
- Continue public education and outreach program
- Update outfall and interconnection inventory and priority ranking and include data collected in connection with the dry weather screening and other relevant inspections conducted
- Implement IDDE program
- Review site plans of construction sites as part of the construction stormwater runoff control program
- Conduct site inspection of construction sites as necessary
- Inspect and maintain stormwater treatment structures
- Log catch basins cleaned or inspected
- Sweep all curbed streets at least annually
- Continue investigations of catchments associated with Problem Outfalls
- Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities

- Review inventory of all permittee owned facilities in the categories of parks and open space, buildings and facilities, and vehicles and equipment; update if necessary

- Review O&M programs for all permittee owned facilities; update if necessary
- Implement all maintenance procedures for permittee owned facilities in accordance with O&M programs
- Implement program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- Enclose all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
- Review as-built drawings for new and redevelopment to ensure compliance with post construction bylaws, regulations, or regulatory mechanism consistent with permit requirements
- Inspect all permittee owned treatment structures (excluding catch basins)

Provide any additional details on activities planned for permit year 4 below:

- 1. Green Infrastructure Report
- 2. Street and Parking Lot Report
- 3. Continue to develop the Phosphorus Control Plan using the CRWA template.
- 4. Education targeted towards Businesses, Developers, and Industries.
- 5. Septic system maintenance information distributed to septic owners. (Efforts began in September 2021).
- 6. Pet waste information distributed at time of license issuance or renewal. (Feature enabled in August 2021 and will also show at time of license renewal.)
- 7. BMP maintenance assessment, cost analysis, and maintenance action plan for town owned structures.
- 8. Outreach about phosphorus and nutrients in the Charles River.
- 9. Combine multiple educational initiatives including stormwater management, water conservation, green infrastructure and climate change.
- 10. Update outfall/interconnection priority ranking based on the information collected during the dry weather inspections.
- 11. Update O&M procedures for permittee owned facilities.
- 12. Follow-up IDDE inspections and stormwater sampling.
- 13. Finalize the MS4CD Permit.

# Part V: Certification of Small MS4 Annual Report 2021

# 40 CFR 144.32(d) Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name:		Title:	
Signature:	Signatory may be a duly authorized representative]	Date:	

# Part V: Certification of Small MS4 Annual Report 2021

### 40 CFR 144.32(d) Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name:

Signature

Town Manage

[Signatory may be a duly authorized

representative]

# Attachment 1 BMP Tracking Report

State	MASSACHUSETTS
Town	MEDWAY
Permit Type	MS4
Permit Number	MAR041132
Major Watershed	CHARLES
TP Load Reduction Target	N/A
TN Load Reduction Target	N/A
TSS Load Reduction Target	N/A

# Table 1. Project Summary Credit for MEDWAY, MASSACHUSETTS

Project Type	Removed Phosphorus Load (lb/yr)	Removed Nitrogen Load (lb/yr)	Removed Sediment Load (lb/yr)
Structural	93.14	848.3	50148.78
Non-Structural	0	0	0
Land Use Conversion	0	0	0
Total	93.14	848.3	50148.78

**Table 2. Structural Project Summary for MEDWAY, MASSACHUSETTS** 

Project ID	ВМР Туре	BMP Storage Capacity (ft³)/ Filter Depth (in.)	Phosphorus BMP Efficiency (%)	Nitrogen BMP Efficiency (%)	Sediment BMP Efficiency (%)	Removed Phosphorus Load (lb/yr)	Removed Nitrogen Load (lb/yr)	Removed Sediment Load (lb/yr)	Impervious Area Treated (ac)	Runoff Depth (in.)
BMP-10-1	EXTENDED DRY DETENTION POND	20232	10.96	11.21	43.92	1.26	11.97	1440.16	7	0.72
BMP-12-2	EXTENDED DRY DETENTION POND	1363	6.5	3.61	32.76	0.18	0.93	252.98	1.5	0.21
BMP-13-1	BIORETENTION	93	1.79	1.15	5.64	0.06	0.35	52.8	2	0.01
BMP-15-1	EXTENDED DRY DETENTION POND	1371	6.91	4.17	34.17	0.16	0.9	221.53	1.3	0.24
BMP-15-2	EXTENDED DRY DETENTION POND	974	3.58	1.69	20.5	0	0	0	2.25	0.12
BMP-16-1	EXTENDED DRY DETENTION POND	298	0.25	0.12	1.48	0.04	0.18	69.21	10	0.01
BMP-18-1	BIORETENTION	3700	23.39	14.97	65.33	2.33	14.11	1849.75	5.5	0.16
BMP-19-1	BIORETENTION	1422	36.5	22.71	90.09	0.66	3.89	463.78	1	0.34

BMP-19-2	BIORETENTION	348	8.95	5.75	28.12	0.24	1.48	217.15	1.5	0.06
BMP-19-3	EXTENDED DRY DETENTION POND	625	2.3	1.07	13.77	0.09	0.41	159.54	2.25	0.08
BMP-19-4	EXTENDED DRY DETENTION POND	733	4.04	1.92	22.5	0.11	0.49	173.75	1.5	0.13
BMP-19-5	EXTENDED DRY DETENTION POND	584	3.02	1.41	18.07	0.09	0.39	148.85	1.6	0.1
BMP-20-1	INFILTRATION BASIN	489	2.17	3.12	3.54	1.1	11.42	402.62	25.5	0.01
BMP-20-2	INFILTRATION BASIN	65	0.29	0.41	0.47	0.15	1.52	53.52	25.5	0
BMP-20-3	INFILTRATION BASIN	65	0.29	0.41	0.47	0.15	1.52	53.52	25.5	0
BMP-20-4	BIORETENTION	1000	3.86	2.48	12.12	0.63	3.78	567.75	10	0.03
BMP-21-1	EXTENDED DRY DETENTION POND	82	1.36	0.63	8.13	0.01	0.05	18.14	0.5	0.05
BMP-21-2	INFILTRATION BASIN	65	0.29	0.41	0.47	0.15	1.52	53.52	25.5	0
BMP-21-3	INFILTRATION BASIN	65	0.29	0.41	0.47	0.15	1.52	53.52	25.5	0

BMP-21-4	EXTENDED DRY DETENTION POND	2594	6.86	4.1	34	0.28	1.57	398.18	2.5	0.29
BMP-22-1	EXTENDED DRY DETENTION POND	242	2	0.93	12	0.04	0.16	61.77	1	0.07
BMP-22-2	EXTENDED DRY DETENTION POND	5597	13.08	19.11	47.17	0.23	2.63	334.55	1	1.22
BMP-22-3	INFILTRATION BASIN	3000	67.93	82.66	94.75	4.42	40.94	1417.71	3	0.23
BMP-23-2	EXTENDED DRY DETENTION POND	2172	7.72	5.3	37.01	0.21	1.41	297.15	1.61	0.32
BMP-27-1	EXTENDED DRY DETENTION POND	14204	6.37	3.43	32.3	1.72	7.06	3618.49	16.5	0.24
BMP-27-2	EXTENDED DRY DETENTION POND	41025	14	23.13	49	0.23	3.53	229.51	1	10.76
BMP-29-3	EXTENDED DRY DETENTION POND	3272	1.06	0.5	6.36	0.54	2.21	709.3	25.5	0.04
BMP-3-1	EXTENDED DRY DETENTION POND	8019	13.98	23.06	48.97	0.23	3.52	229.35	1	1.75

BMP-3-2	EXTENDED DRY DETENTION POND	1166	2.35	1.1	14.1	0.16	0.69	270.81	4.1	0.08
BMP-32-1	EXTENDED DRY DETENTION POND	2560	3.39	1.6	19.67	0.33	1.43	548.38	6.25	0.11
BMP-33-1	EXTENDED DRY DETENTION POND	7500	9.26	8.91	40.52	0.55	4.51	514.2	3.3	0.63
BMP-33-2	EXTENDED DRY DETENTION POND	563	0.47	0.22	2.79	0.09	0.35	113.58	10	0.02
BMP-33-3	EXTENDED DRY DETENTION POND	4115	3.4	1.6	19.74	0.65	2.6	802.96	10	0.11
BMP-33-4	EXTENDED DRY DETENTION POND	2912	2.41	1.12	14.44	0.46	1.83	587.45	10	0.08
BMP-36-1	EXTENDED DRY DETENTION POND	15000	13.08	19.1	47.16	0.54	7.29	552.27	2.5	1.39
BMP-39-1	INFILTRATION TRENCH	1572	28.12	61.96	45.46	6.81	61.65	1575.8	4.1	0.11
BMP-40-1	EXTENDED DRY DETENTION POND	8021	11.6	12.17	45.21	0.5	4.48	417.2	2.4	0.86

BMP-40-2	BIORETENTION	802	25.05	16.03	69.09	0.5	3.02	391.26	1.1	0.18
BMP-40-3	EXTENDED DRY DETENTION POND	10661	12.35	14.85	46.35	0.64	6.72	525.17	2.5	0.94
BMP-4-1	EXTENDED DRY DETENTION POND	664	3.66	1.73	20.85	0.09	0.4	146.51	1.5	0.12
BMP-41-1	BIORETENTION	10695	30.68	19.31	79.41	5.83	31.36	3230.6	10	0.29
BMP-41-2	BIORETENTION	57774	63	40	100	7.18	38.98	2440.98	6	2.11
BMP-4-2	EXTENDED DRY DETENTION POND	1398	6.57	3.7	32.99	0.16	0.85	231.76	1.5	0.26
BMP-42-2	INFILTRATION TRENCH	143	1.42	3.2	2.31	0.16	2.79	113.82	7.5	0.01
BMP-44-1	EXTENDED DRY DETENTION POND	11250	12.47	15.59	46.47	0.49	5.71	522.42	2.4	1.12
BMP-45-1	EXTENDED DRY DETENTION POND	2486	6.17	3.15	31.61	0.32	1.52	466.37	3.15	0.22
BMP-45-2	INFILTRATION BASIN	2088	69.2	83.57	94.88	2.27	25.51	888.78	2	0.29
BMP-46-1	INFILTRATION TRENCH	66	3.78	8.53	6.15	0.09	1.8	32.55	1.3	0.01

BMP-46-2	INFILTRATION BASIN	1030	61.92	78.37	94.18	1.53	16.55	498.11	1.3	0.22
BMP-46-3	INFILTRATION BASIN	454	65.26	80.76	94.5	0.54	6.16	221.32	0.5	0.25
BMP-46-4	EXTENDED DRY DETENTION POND	14640	13.02	18.8	47.03	0.53	7.17	550.71	2.5	1.37
BMP-47-1	EXTENDED DRY DETENTION POND	1546	5.11	2.46	27.15	0.21	0.77	460.78	2.5	0.17
BMP-47-2	EXTENDED DRY DETENTION POND	349	1.92	0.9	11.54	0.05	0.21	81.06	1.5	0.06
BMP-47-3	EXTENDED DRY DETENTION POND	622	4.11	1.96	22.82	0.08	0.37	133.61	1.25	0.14
BMP-47-4	INFILTRATION BASIN	4534	96.2	99	100	0.91	8.04	203.42	0.5	1.95
BMP-47-5	INFILTRATION BASIN	10844	96.2	99	100	0.91	8.04	203.42	0.5	5.43
BMP-47-6	INFILTRATION BASIN	600	73.71	86.79	95.31	0.77	6.62	223.2	0.5	0.33
BMP-47-7	INFILTRATION BASIN	248	47.96	65.6	76.89	0.5	5	180.08	0.5	0.14

BMP-47-8	INFILTRATION BASIN	248	47.96	65.6	76.89	0.5	5	180.08	0.5	0.14
BMP-47-9	INFILTRATION BASIN	105	23.72	34.13	38.76	0.25	2.6	90.77	0.5	0.06
BMP-48-1	EXTENDED DRY DETENTION POND	72	0.37	0.17	2.23	0.01	0.04	16.72	1.6	0.01
BMP-48-2	EXTENDED DRY DETENTION POND	18550	14	23.13	49	0.37	4.62	532.3	1.6	2.65
BMP-48-3	INFILTRATION BASIN	4000	91.77	96.89	99.44	2.41	23.66	745.25	1.6	0.63
BMP-48-4	INFILTRATION BASIN	2406	81.64	92.29	96.21	2.14	18.44	1045.19	1.6	0.41
BMP-48-5	EXTENDED DRY DETENTION POND	274	1.42	0.66	8.49	0.04	0.16	63.64	1.6	0.05
BMP-48-6	INFILTRATION BASIN	320	24.1	34.67	39.38	0.81	8.91	304.05	1.5	0.06
BMP-49-1	EXTENDED DRY DETENTION POND	1502	6.07	3.01	31.24	0.22	0.86	453.21	2	0.18
BMP-50-1	BIORETENTION	418	1.07	0.69	3.38	0.29	1.59	194.83	15	0.01

BMP-50-2	EXTENDED DRY DETENTION POND	250	0.14	0.06	0.83	0.04	0.15	47.67	15	0
BMP-54-3	INFILTRATION BASIN	2100	69.37	83.69	94.89	2.64	27.18	772.1	2	0.29
BMP-55-1	EXTENDED DRY DETENTION POND	92	0.11	0.05	0.66	0.01	0.05	20.35	6.9	0
BMP-55-2	BIORETENTION	262	27.44	17.42	73.46	0.13	0.75	98.32	0.3	0.24
BMP-56-2	EXTENDED DRY DETENTION POND	571	2.1	0.98	12.58	0.08	0.34	132.62	2.25	0.07
BMP-56-3	EXTENDED DRY DETENTION POND	33216	14	23.13	49	0.57	8.82	573.78	2.5	3.12
BMP-56-4	EXTENDED DRY DETENTION POND	34045	14	23.13	49	0.57	8.82	573.78	2.5	3.21
BMP-56-5	INFILTRATION BASIN	1305	76.75	88.96	95.6	1.39	13.66	367.59	1	0.36
BMP-56-6	ENHANCED BIORETENTION	181	9.47	15.96	21.94	0.17	2.45	84.36	1	0.05
BMP-57-2	EXTENDED DRY DETENTION POND	1010	8.78	7.93	39.56	0.07	0.61	92.66	0.5	0.52

BMP-57-3	INFILTRATION BASIN	1048	96.44	99.62	100	0.45	4.29	133.83	0.3	0.89
BMP-57-4	INFILTRATION BASIN	1048	92.44	97.22	99.61	0.57	5.59	177.74	0.4	0.68
BMP-57-5	INFILTRATION BASIN	1048	94.37	98.25	100	0.51	4.94	156.13	0.35	0.77
BMP-57-6	INFILTRATION BASIN	374	60.64	77.45	94.06	0.47	5.57	209.8	0.5	0.21
BMP-59-1	BIORETENTION	400	15	9.64	46.28	0.25	1.49	218.92	1.01	0.11
BMP-59-2	BIORETENTION	458	16.74	10.74	50.23	0.28	1.66	237.63	1.01	0.12
BMP-59-3	BIORETENTION	512	18.36	11.78	53.91	0.3	1.81	255.05	1.01	0.14
BMP-59-4	BIORETENTION	400	15	9.64	46.28	0.25	1.49	218.92	1.01	0.11
BMP-59-5	BIORETENTION	802	5.52	3.55	17.36	0.56	3.05	373.81	5.6	0.04
BMP-60-2	INFILTRATION BASIN	68	15.36	22.1	25.1	0.12	1.59	55.99	0.5	0.04
BMP-60-4	INFILTRATION BASIN	65	14.68	21.13	23.99	0.17	1.52	53.52	0.5	0.04
BMP-61-1	INFILTRATION BASIN	23	3.71	5.34	6.06	0.04	0.54	18.94	0.7	0.01
BMP-62-3	INFILTRATION BASIN	208	7.83	11.27	12.8	0.49	5.16	179.82	3	0.02
BMP-62-2	EXTENDED DRY DETENTION POND	1200	2.48	1.16	14.88	0.21	0.71	278.71	4	0.08

BMP-62-4	INFILTRATION BASIN	208	7.83	11.27	12.8	0.49	5.16	179.82	3	0.02
BMP-62-1	EXTENDED DRY DETENTION POND	534	0.45	0.21	2.73	0.09	0.31	124.03	9.7	0.02
BMP-62-5	INFILTRATION BASIN	417	15.7	22.59	25.66	0.98	10.34	360.51	3	0.04
BMP-62-6	INFILTRATION BASIN	417	15.7	22.59	25.66	0.98	10.34	360.51	3	0.04
BMP-62-7	INFILTRATION BASIN	208	7.83	11.27	12.8	0.49	5.16	179.82	3	0.02
BMP-63-1	EXTENDED DRY DETENTION POND	337	0.23	0.11	1.36	0.05	0.2	64.26	12.25	0.01
BMP-63-2	EXTENDED DRY DETENTION POND	1408	0.95	0.44	5.7	0.21	0.83	268.47	12.25	0.03
BMP-64-1	EXTENDED DRY DETENTION POND	1380	7.8	5.42	37.31	0.12	0.78	166.42	1	0.38
BMP-65-1	EXTENDED DRY DETENTION POND	3072	2.54	1.19	15.23	0.42	1.81	713.5	10	0.08
BMP-70-1	BIORETENTION	86	0.85	0.55	2.67	0.06	0.29	73.94	3.9	0.01

BMP-73-1	EXTENDED DRY DETENTION POND	2074	1.4	0.65	8.4	0.31	1.23	395.46	12.25	0.05
BMP-73-2	INFILTRATION BASIN	4910	47.7	65.35	76.52	8.63	100.31	2942.45	10	0.14
BMP-73-3	INFILTRATION BASIN	4910	47.7	65.35	76.52	8.63	100.31	2942.45	10	0.14
BMP-73-4	INFILTRATION BASIN	2455	27.73	39.9	45.31	5.02	61.25	1742.41	10	0.07

# Table 3. Non-Structural Project Summary for MEDWAY, MASSACHUSETTS

There are no non-structural BMPs.

# **Table 4. Land Use Conversion Project Summary for MEDWAY, MASSACHUSETTS**

There are no land use conversion projects.

# Attachment 2 Outfall Inspection Report

2020-12-14 8:58:53 AM NOLAN LYNCH OF:33-5 Outfall - OF:33-5 35 0 0.35 2020-12-14 11:52-52 AM NOLAN LYNCH OF:22-10 Outfall - OF:22-10 36 0.02 0.35	Suburban Residential Closed Pip RCP Circula Suburban Residential Closed Pip RCP Circula	2 Single 12 No No No No 2 Single 12 No No No No	esc Odor Dex. Color? Color Sew Color Dex. Color Dex. Turbidity? Turbidity: Floatables Fl	hysical Ir Outfall Da Outfall Da Outfall Da Deposit St Deposit/S Deposit/S o es	Si Abnormal Abnormal Abnormal Poor Pool Poor Pool Poor Pool Pipe Benti Pipe Benti Pipe Benti Potent Yes Other overgrown retention, yard waste dumping	ial Potential Any Non-I Outfall Ph Comment Stormwat Water Ter pH Conductiv Salinity (p Detergent Chlorine (: Ammonia E. Cell (MI Phosphorus (mg/L) Unilake). Home owner has added 2 lengths of PVC pipe at end of DF to help more water further away from property. Top of pipe broken off, not impeding water Unilake, trash
2020-12-14 12:39:14 PM NOLAN LYNCH 0F-22-9 Outfall - 0F-22-9 36 0.02 0.35 2020-12-14 12:46:07 PM NOLAN LYNCH 0F-22-8 36 0.02 0.35 2020-12-14 12:48:40 PM NOLAN LYNCH 0F-22-11 Outfall - 0F-22-8 36 0.02 0.35 2020-12-14 12:48:40 PM NOLAN LYNCH 0F-22-11 Outfall - 0F-22-11 36 0.02 0.35	Suburban Residential Closed Pip RCP Circula	2 Single 16 No No No No Single 48 No No No No No Single 16 No	No.	0		Unlikely Unlikely retention outfall Unlikely overcrown trash vard waste dismoine
2020-12-14 12:58:49 PM INDIAN LYNCH 0F-22-1 Outfall: 0F-22-1 36 0.02 0.35 0.20 0.20-12-14 12:51:49 PM INDIAN LYNCH 0F-22-1 Outfall: 0F-22-4 36 0 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.	Suburban Residential Closed Pip RCP Circula	2 Single 16	Ye.	es o	Yes Excessive drowned I Yes Other	Unlikely overgrown, trash, yarra waste dumping Unlikely retention overgrown, trash
2020-12-14 1::57:05 PM NOLAN LYNCH	Suburban Residential Closed Pip RCP Circula Suburban Residential Closed Pip RCP Circula	2 Single 16 No Partially No 2 Single 48 Partially Partially No				Unlikely retention overgrown Unlikely retention overgrown
2020-12-14 1:01:15 PM NOLAN LYNCH 0F-22-6 Outfall - 0F-22-6 36 0 0.35 2020-12-14 1:04:54 PM NOLAN LYNCH 0F-22-7 0urfall - 0F-22-7 36 0 0.35 2020-12-14 1:06:38 PM NOLAN LYNCH 0F-21-13 0urfall - 0F-21-13 36 0.02 0.35	Suburban Residential Closed Pip RCP Circula	2 Single 12 No No No 2 Single 12 No No No No 3 Single 12 Fully No No				Unlikely Unlikely Unlikely field stone headwall collapsing
2000-12-14 1306-34 PM NOLAN LYNCH 0F-21-13 Outfall 0F-21-13 50 U.02 U.35 2020-12-16 76-265 PM NOLAN LYNCH 0F-19-10 Outfall 0F-19-10 2 0 0.09 2020-12-16 7-40-09 PM NOLAN LYNCH 0F-19-11 Outfall 0F-19-11 22 0 0.09	Suburban Residential Closed Pip RCP Circula	2 Single 24 No No No No 2 Single 24 No No No No				Unlikely Unlikely Unlikely
2020-12-31 7:46:37 AM NOLAN LYNCH	Suburban Residential Closed Pip RCP Circula Suburban Residential Closed Pip RCP Circula	2 Single 24 No Partially No 2 Single 12 No Fully No				Unlikely yard waste dumpings Unlikely
2020-12-16 8:02-38 AM NOLAN LYNCH 0F-19-13 Outfall - 0F-19-13 22 0 0.09 2020-12-16 8:05-56 AM NOLAN LYNCH 0F-27-4 Outfall - 0F-27-4 22 0 0.09	Suburban Residential Closed Pip RCP Circula	2 Single 16 No No No No 2 Single 16 No No No				Unlikely Unlikely
2020-12-15 8:16:02 AM NOLAN LYNCH 0F-37-9 0uffall - 0F-37-9 37 0.09 0.09 2020-12-15 8:18:36 AM NOLAN LYNCH 0F-37-7 0uffall - 0F-37-7 37 0.09 0.09 2020-12-15 8:21:05 AM NOLAN LYNCH 0F-37-6 0uffall - 0F-37-6 37 0.09 0.09	Suburban Residential Closed Pip RCP Circula	2 Single 12 No No No No 2 Single 12 No No No No Single 12 No Partially No				Unlikely Unlikely trash Unlikely
2020-12-15 8:23:56 AM NOLAN LYNCH OF-37-5 Outfall - OF-37-5 36 0.09 0.09 2020-12-15 8:26:11 AM NOLAN LYNCH OF-46-1 Outfall - OF-46-1 36 0.09 0.09	Suburban Residential Closed Pip RCP Circula Suburban Residential Closed Pip RCP Circula	2 Single 12 No Fully No 2 Single 48 No Partially No				Unlikely Unlikely
2020-12-15 8:28:10 AM NOLAN LYNCH 0F:37-10 Outfall - 0F:37-10 36 0.09 0.09 2020-12-15 8:31:01 AM NOLAN LYNCH 0F:37-16 Outfall - 0F:37-16 36 0.09 0.09	Suburban Residential Closed Pip RCP Circula	2 Single 36 Partially No No 2 Single 24 No Partially No				Unlikely trash Unlikely
2020-12-15-8:38:13 AM NOLAN LYNCH 0F-37-15 Outfall - 0F-37-15 36 0.09 0.09 2020-12-15-8:38:31 AM NOLAN LYNCH 0F-37-13 0utfall - 0F-37-13 36 0.09 0.09 2020-12-15-8:02-12 AM NOLAN LYNCH 0F-37-12 Outfall - 0F-37-12 36 0.09 0.09	Suburban Residential Closed Pip RCP Circula	2 Single 16 No No No 2 Single 10 Fully No No 2 Single 12 Partially No No	Ye	es Yes Flow Line		Unlikely Unlikely Unlikely
2020-12-14 8-43:14 AM NOLAN LYNCH 0F-8-8 Outfall - 0F-8-8 37 0.07 0.35 2020-12-14 8-85-58 AM NOLAN LYNCH 0F-8-2 Outfall - 0F-8-2 37 0.07 0.35	Suburban Residential Closed Pip RCP Circula	2 Single 36 No No No No 2 Single 12 No No No No	Ye	es Yes Corrosion bottom of flange corroded		Unlikely Unlikely
2020-12-14 8:48:37 AM NOLAN LYNCH 0F-3-12 Outfall - 0F-3-12 37 0.07 0.35 2020-12-14 8:52:39 AM NOLAN LYNCH 0F-3-11 Outfall - 0F-3-11 37 0.07 0.35	Suburban Residential Closed Pip RCP Circula	2 Single 16 Partially No No 2 Single 16 No Partially No				Unlikely Unlikely
2020-12-14 8:56-02 AM NOLAN LYNCH 0F-3-10 Outfall - OF-3-10 37 0.07 0.35 2020-12-14 8:56-02 AM NOLAN LYNCH 0F-3-9 Outfall - OF-3-9 37 0.07 0.35 2020-12-14 8:58:17 AM NOLAN LYNCH 0F-3-8 0rtfall - OF-3-8 37 0.07 0.35	Suburban Residential Closed Pip RCP Circula	2 Single 16 No Partially No 2 Single 16 No Partially No 2 Single 16 No Partially No				Unlikely Unlikely
2020-12-14-9:01-58 AM NOLAN LYNCH OF-8-1 Outfall - OF-8-1 37 0.07 0.35 2020-12-14-9:03-55 AM NOLAN LYNCH OF-9-3 Outfall - OF-9-3 37 0.07 0.35	Suburban Residential Closed Pip RCP Circula	2 Single 24 No Partially No 2 Single 24 No Fully No				Unlikely utility brush hogged retention Unlikely vard waste dumpines
2020-12-14 9:05:24 AM NOLAN LYNCH 0F-9-1 Outfall - 0F-9-1 36 0.07 0.35 2020-12-30 9:06:13 AM NOLAN LYNCH 0F-45-3 Outfall - 0F-45-3 37 0 0	Suburban Residential Closed Pip RCP Circula	2 Single 12 No Fully No 2 Single 12 Partially No No				Unlikely Unlikely
2020-12-30 9:08:48 AM NOLAN LYNCH 0F-45-5 0uffall - 0F-45-5 37 0 0 0 2020-12-30 9:10:36 AM NOLAN LYNCH 0F-45-4 0uffall - 0F-45-4 37 0 0 0 2020-12-30 9:17:31 AM NOLAN LYNCH 0F-44-3 0uffall - 0F-44-3 37 0 0	Suburban Residential Closed Pip RCP Circula	2 Single 12 No No No No 2 Single 12 Partially No No				Unlikely Unlikely excessive yard waste
2020-12-30 9:17-31 AM NOLAN LYNCH 0F-44-3 Outfall - 0F-44-3 37 0 0 2020-12-30 9:18:59 AM NOLAN LYNCH 0F-44-4 0utfall - 0F-44-4 37 0 0 2020-12-30 9:2507 AM NOLAN LYNCH 0F-44-2 Outfall - 0F-44-2 37 0 0	Suburban Residential Closed Pip RCP Circula	2 Single 24 No No No No 2 Single 12 No				Unikely Unlikely
2020-12-30 9:22-36 AM NOLAN LYNCH OF-44-5 Outfall - OF-44-5 37 0 0 2020-12-30 9:23-06 AM NOLAN LYNCH OF-44-7 Outfall - OF-44-7 37 0 0	Suburban Residential Closed Pip RCP Circula Suburban Residential Closed Pip RCP Circula	2 Single 12 No No No No 2 Single 16 No No No No				Unlikely Unlikely
2020-12-30 9:27:22 AM NOLAN LYNCH	Suburban Residential Closed Pip RCP Circula Suburban Residential Closed Pip RCP Circula	2 Single 16 No No No No 2 Single 12 No Partially No				Unlikely downed brush Unlikely
2020-12-30 9:33:17 AM NOLAN LYNCH 0F-34-2 Outfall - 0F-34-2 37 0 0 0 2020-12-09 9:33:49 AM NOLAN LYNCH 0F-34-4 0 0 0 0 2020-12-09 9:41:34 AM NOLAN LYNCH 0F-13-2 Outfall - 0F-34-4 37 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Suburban Residential Closed Pip RCP Circula	2 Single 12 Partially No No No 2 Single 24 No				Unlikely Unlikely Unlikely
2020-12-30 9:44-28 AM NOLAN LYNCH OF-6-5 Outfall - OF-6-5 28 0 0 0 2020-12-30 9:46-57 AM NOLAN LYNCH OF-6-6 Outfall - OF-6-6 28 0 0	Suburban Residential Closed Pip RCP Circula Suburban Residential Closed Pip RCP Circula	2 Single 16 No No No No 2 Single 16 No No No No	Ye	es	Yes Oil Sheen	Unitizely Unitizely Unitizely
2020-12-30 9:49-13 AM NOLAN LYNCH 0F-12-11 Outfall - OF-12-11 28 0 0 2020-12-30 9:52-35 AM NOLAN LYNCH 0F-19-7 Outfall - OF-19-7 27 0 0	Suburban Residential Closed Pip RCP Circula Suburban Residential Closed Pip RCP Circula	2 Single 24 No Fully No 2 Single 24 Partially No No				Unlikely Unlikely
2020-12-30 9:54:58 AM NOLAN LYNCH OF-19-9 Outfall - OF-19-9 27 0 0 2021-01-18-48:91:0 AM PDW Admin OF-24-1 0 0 0 2021-01-18-58:19 AM DPW Admin OF-16-3 0utfall - OF-16-3 45 0 0	Suburban Residential Closed Pip RCP Circula	2 Single 16 No No No No 2 Single 12 No Fully No 2 Single 12 No No No	No	0		Unlikely Unlikely
2021-01-14 8:56:19 AM DPW Admin	Suburban Residential Closed Pip RCP Circula	2 Single 12 No No No No 2 Single 12 No	No Yes	o es Yes Spalling, C Headwall Cracking o		Unlikely Unlikely Unlikely
2021-01-12 1:48:33 PM DPW Admin 0F-15-4 0utfall - 0F-15-4 45 0 0 0 2021-01-12 1:11:15-6 AM DPW Admin 0F-16-6 0utfall - 0F-16-6 36 0 0	Suburban Residential Closed Pip RCP Circula	2 Single 16 No No No 2 Single 12 No No No	No.	0		Unlikely Unlikely
2021-01-12 10:17:50 AM DPW Admin OF-9-6 Outfall - OF-9-6 36 0 0 2021-01-12 10:41:26 AM DPW Admin OF-10-3 Outfall - OF-10-3 36 0 0	Suburban Residential Closed Pip RCP Circula	2 Single 12 Partially No No No 2 Single 18 No No No	Ye. No	es 0	Yes Oil Sheen	Suspect (one or more indicators with a severity of 3) Unlikely
2021-01-12 10:82:11 AM DPW Admin 0F-10-6 0ufall - 0F-10-6 36 0 0 2021-01-12 10:54-27 AM DPW Admin 0F-16-1 0ufall - 0F-16-1 36 0 0 2021-01-12 8:03:49 AM DPW Admin 0F-6-6 0ufall - 0F-6-6 28 0 0	Suburban Residential Closed Pip RCP Circula	2 Single 18 No Partially No 2 Single 12 No No No No Single 12 No Partially No	No No	0		Unlikely Unlikely Unlikely
2021-01-12 8:11:19 AM DPW Admin OF-64-3 Outfall - OF-64-3 28 0 0 0 2021-01-12 8:37:45 AM DPW Admin OF-64-4 0utfall - OF-64-4 28 0 0	Suburban Residential Closed Pip RCP Circula	2 Single 12 No No No No   2 Single 18 No No No No	NO NO	0		Unlikely Unlikely
2021-01-12 8:56:35 AM DPW Admin OF-55-6 Outfall - OF-55-6 28 0 0 0 2021-01-12 9:27:29 AM DPW Admin OF-4-7 Outfall - OF-4-7 36 0 0	Suburban Residential Closed Pip RCP Circula	2 Single	No No	0		Unlikely Unlikely
2021-01:12-94:02-3 AM DPW Admin 0F-5-1 0utfall-0F-5-1 36 0 0 0 2021-01:12-94:735 AM DPW Admin 0F-5-2 Outfall-0F-5-2 36 0 0 0 2021-01:12-95:61-9 AM DPW Admin 0F-5-3 0utfall-0F-5-3 36 0 0	Suburban Residential Closed Pip RCP Elliptic	2 Single 18 No No No	No Mo	0		Unlikely Unlikely Unlikely
2021-01-11 1:42-20 PM DPW Admin OF-64-10 Outfall - OF-64-10 40 0 0 0 2021-01-11 1:16:44 PM DPW Admin OF-65-1 Outfall - OF-65-1 36 0 0	Suburban Residential Closed Pip RCP Circula	2 Single 12 No Partially No 2 Single 24 No No No No	No.	0		Unlikely Unlikely
2021-01-111:09:49 PM DPW Admin OF-64-11 Outfall - OF-64-11 36 0 0 0 2021-01-111:07:12 PM DPW Admin OF-64-9 Outfall - OF-64-9 40 0 0	Suburban Residential Closed Pip RCP Circula	2 Single 12 No Fully No 2 Single 12 No No No	No No	0		Unlikely Unlikely
2021-01-11122-55-42 PM DPW Admin OF-55-10 Outfall - OF-55-10 36 0 0 0 2021-01-11122-15-43 DPW Admin OF-54-6 Outfall - OF-54-6 40 0 0 0 2021-01-111127-21 AM DPW Admin OF-54-5 Outfall - OF-54-5 33 0 0	Suburban Residential Closed Pip RCP Circula	2 Single 12 No No No No Single 36 No	No Ye	o es Yes Spalling, C Headwall Crumble		Unlikely Unlikely
2021-01-11 11:04-21 AM DPW Admin 0F-26-3 Outfall - 0F-26-3 30 0 0 2021-01-11 10:50:13 AM DPW Admin 0F-35-1 Outfall - 0F-26-3 30 0 0	Suburban Residential Closed Pip RCP Circula	2 Single 12 Partially Partially No 2 Single 12 Partially No No	No.	0		Unlikely Swamp Overgrowth Unlikely
2021-01-14 9:50:50 AM DPW Admin OF-35-3 Outfall - OF-35-3 30 0 0 0 0 2021-01-11 10:35:18 AM DPW Admin OF-35-2 Outfall - OF-35-2 30 0 0	Suburban Residential Closed Pip RCP Circula Suburban Residential Closed Pip RCP Circula	2 Single 24 No Partially No 2 Single 12 No Partially No	No No	o o		Unlikely Unlikely
2021-01-11 10:25:27 AM DPW Admin	Suburban Residential Closed Pip RCP Circula Suburban Residential Closed Pip RCP Circula	2 Single 16 Partially No No No 2 Single 24 No No No	No No	0		Unlikely Unlikely
2021-01-119-51-67 AM DPW Admin	Suburban Residential Closed Pip RCP Circula	2 Single 36 No No No 2 Single 12 No No No No 2 Single 16 No No No	No No	0		Unlikely Unlikely Unlikely
2021-01-119:36:20 AM DPW Admin OF-36-1 Outfall - 0F-36-1 24 0 0 0 2021-01-119:32:44 AM DPW Admin OF-36-4 Outfall - 0F-36-4 24 0 0	Suburban Residential Closed Plp RCP Circula Suburban Residential Closed Plp RCP Circula	2 Single 12 No Partially No 2 Single 12 Partially No No	No.	0		Unlikely Unlikely
2021-01-11 9:09-54 PM DPW Admin OF-45-1 Outfall - OF-45-1 24 0 0 0 2021-01-11 9:00-56 AM DPW Admin OF-55-9 Outfall - OF-55-9 24 0 0	Suburban Residential Closed Pip RCP Circula Suburban Residential Closed Pip RCP Elliptic	2 Single 12 Partially No No No I 2 Single 36 No No No No	No No	0		Unlikely Unlikely
2021-01-19:00:30 AM DPW Admin	Suburban Residential Closed Pip PVC Circula	2 Single	No No	0		Unlikely Unlikely Unlikely
2021-01-13 200:19 PM DPW Admin	Suburban Residential Closed Pip RCP Elliptic	2 Single 18 No No No No 2 Single 16 No No No No	No.	0		Unlikely Unlikely
2021-01-13 2:00:51 PM DPW Admin OF-59-3 Outfall - OF-59-3 43 0 0 2021-01-13 1:00:03 PM DPW Admin OF-49-11 Outfall - OF-49-11 43 0 0	Suburban Residential Closed Pip PVC Circula Suburban Residential Closed Pip RCP Circula	1 Double 4 Partially No No No 2 Single 18 Partially No No	No No	0		Unlikely Unlikely
2021:01:31:0051 PM DPW Admin 0F-47-15 0uffall - 0F-47-15 43 0 0 0 2021:01:31:0058 PM DPW Admin 0F-47-14 0uffall - 0F-47-14 43 0 0 0 2021:01:31:0009 PM DPW Admin 0F-47-12 0uffall - 0F-47-12 43 0 0	Suburban Residential Closed Pip RCP Elliptic	2 Single   24 No No No No   No   No   No   No   No	No No	0		Unlikely Unlikely
2021-01-13 1:00:07 M DPW Admin	Suburban Residential Closed Pip RCP Elliptic	2 Single   24 No No No No   2 Single   12 No Fully No	No. No. Ye	0 0 25	Yes Excessive Overgrown Brush	Unlikely Unlikely
2021-01-13 2:00:14 PM DPW Admin OF-49-1 Outfall - OF-49-1 43 0 0 0 2021-01-13 2:00:28 PM DPW Admin OF-49-4 Outfall - OF-49-4 43 0 0	Suburban Residential Closed Pip RCP Circula Suburban Residential Closed Pip RCP Circula	2 Single 18 No No No No 2 Single 12 No No No No	Ye Ye	es	Yes Excessive Down Brush Yes Excessive Retention Overgrowth	Unlikely Unlikely Unlikely
2021-01:131:00:50 PM DPW Admin	Suburban Residential Closed Pip RCP Elliptic	2 Single 24 No No No No   1 2 Single 24 No No No No   2 Single 18 No Partially No	No Mo	0		Unlikely Unlikely Unlikely
2021-01-13 8:17:44 AM DPW Admin OF-62-1 Outfall - OF-62-1 26 0 0 2021-01-13 9:42:06 AM DPW Admin OF-72-1 Outfall - OF-72-1 35 0 0	Suburban Residential Closed Pip RCP Elliptic Suburban Residential Closed Pip RCP Elliptic	I 2 Single 12 No Fully No I 2 Single 18 Partially Partially No	No No Mr	- 0 0		Unlikely Unlikely
2021-01-13 9:49:14 AM DPW Admin 0F-71-4 Outfall - OF-71-4 35 0 0 2021-01-13 10:12:10 AM DPW Admin 0F-61-3 Outfall - OF-61-3 35 0 0	Suburban Residential Closed Pip RCP Elliptic Suburban Residential Closed Pip RCP Circula	2 Single 12 No Partially No 2 Single 12 No No No No	No.	0		Unilizely Unilizely Unilizely Unilizely
2021-01-13 10:14-34 AM DPW Admin OF-71-1 Outfall OF-71-1 35 0 0 0 2021-01-13 10:40-06 AM DPW Admin OF-70-2 Outfall OF-70-2 35 0 0 0 2021-01-13 10:49-25 AM DPW Admin OF-70-1 Outfall OF-70-1 36 0 0	Suburban Residential Closed Pip RCP Circula Suburban Residential Closed Pip RCP Circula	2 Single 18 No No No No 2 Single 12 No No No	No No	0		Unlikely
2021-01-13 10:49:25 AM DPW Admin 0F-70-1 Outfall - 0F-70-1 36 0 0  2021-01-13 9:56-35 AM DPW Admin 0F-71-3 Outfall - 0F-71-3 35 0 0  2021-01-14 8:29:57 AM NOLAN LYNCH 0F-42-4 Outfall - 0F-42-4 35 0 0	Suburban Residential Closed Pip RCP Circula	2 Single 8 No No No No 4 Other No No 2 Single 10 No Partially No	No	•		Unlikely Not Found Unlikely
2021-01-14 8:43:49 AM NOLAN LYNCH 0F-70-3 Outfall - OF-70-3 35 0 0 2021-01-14 8:46:11 AM NOLAN LYNCH 0F-70-4 Outfall - OF-70-4 32 0 0	Suburban Residential Closed Pip PVC Circula Suburban Residential Closed Pip RCP Circula	2 Single 8 No No No No 2 Single 24 No No No No				Unlikely Unlikely
2021-01-14 9:54:53 AM NOLAN LYNCH	Suburban Residential Closed Pip Other Circula Suburban Residential Closed Pip CMP Circula	2 Single 12 No No No No 2 Single 18 No No No No				Unlikely Unlikely
2021-01-14 1006:05 AM NOLAN LYNCH 0F-69-3 Outfall - 0F-69-3 35 0 0 0 0 2021-01-14 10:15-57 AM NOLAN LYNCH 0F-69-6 Outfall - 0F-69-6 35 0 0 0 2021-01-14 10:25:14 AM NOLAN LYNCH 0F-69-5 Outfall - 0F-69-5 35 0 0 0	Suburban Residential Closed Pip RCP Circula	2 Single 12 No No No No Single 16 No				Unlikely Unlikely Unlikely
2021-01-14 10:55:14 AM NOIAN LYNCH 0F-69-5 Outfall - 0F-69-5 35 0 0 2021-01-14 10:58:23 AM NOIAN LYNCH 0F-69-4 Outfall - 0F-69-4 37 0 0 2021-01-14 11:10:48 AM NOIAN LYNCH 0F-68-4 Outfall - 0F-68-4 37 0 0	Suburban Residential Closed Pip RCP Circula	2 Single 12 No Partially No 2 Single 12 No				Unlikely Unlikely Unlikely
2021-01-14 11:13:10 AM NOLAN LYNCH	Suburban Residential Closed Pip PVC Circula Suburban Residential Closed Pip HDPE Circula	2 Single 12 No No No No 2 Single 12 No No No				Unlikely Unlikely
2021-01-14 1:16:46 PM NOLAN LYNCH 0F-58-7 Outfall - OF-58-7 38 0 0 2021-01-14 1:20:27 PM NOLAN LYNCH 0F-58-10 Outfall - OF-58-10 38 0 0	Suburban Residential Closed Pip RCP Circula Suburban Residential Closed Pip RCP Circula	2 Single 12 No No No No 2 Single 15 No No No No				Unikely Unikely Unikely Unikely
2021-01:15:82:22:6 PM NOLAN LYNCH OF-58-11 Oxtfall -0F-58-11 38 0.09 0.09 0.09 02021-01:15:83:02:1 PM NOLAN LYNCH OF-58-5 Oxtfall -0F-58-5 38 0.09 0.09 02021-01:15:83-71:1 PM NOLAN LYNCH 0F-59-9 Oxtfall -0F-59-9 38 0.09 0.09	Suburban Residential Closed Pip Steel Circula Suburban Residential Closed Pip RCP Circula Suburban Residential Closed Pip RCP Elliptic	2 Single 8 No No No No 2 Single 12 No No No I 2 Single 15 Partially No No				Unlikely Unlikely Unlikely
2021-01-15 8:57:56 PM NOLAN LYNCH 0F:59-8 Outfall - 0F:59-8 38 0.09 0.09 2021-01-15 9:05:25 AM NOLAN LYNCH 0F:58-3 Outfall - 0F:58-3 38 0.09 0.09	Suburban Residential Closed Pip Steel Elliptic Suburban Residential Closed Pip Steel Circula	I 2 Single 10 No No No No 2 Single 12 No No No No				Unlikely Unlikely
2021-01-15 9:10:46 AM NOLAN LYNCH OF-S8-2 Outfall - OF-S8-2 38 0.09 0.09 2021-01-15 10:08:17 AM NOLAN LYNCH OF-48-11 Outfall - OF-48-11 38 0.09 0.09	Suburban Residential Closed Pip RCP Elliptic	2 Single 12 Partially No No No I 2 Single 12 No No No				Unlikely Unlikely Unlikely
2021-01-15 101-13:02 AM NOLAN LYNCH 0F-48-5 0utfall - 0F-48-5 38 0.09 0.09 2021-01-15 101-16:27 AM NOLAN LYNCH 0F-48-7 0utfall - 0F-48-7 38 0.09 0.09 2021-01-15 10:25:39 AM NOLAN LYNCH 0F-48-13 0utfall - 0F-48-13 38 0.09 0.09 0.09	Suburban Residential Closed Pip RCP Circula	2 Single 12 No No No No 2 Single 12 No No No No				Unlikely
2021-01-15 10:25:39 AM NOLAN LYNCH 0F-48-13 0utfall - 0F-48-13 38 0.9 0.9 0.9 2021-01-15 10:39:39 AM NOLAN LYNCH 0F-58-16 0utfall - 0F-58-16 38 0.9 0.9 0.9 2021-01-21 8:53:39 AM NOLAN LYNCH 0F-30-6 0utfall - 0F-30-6 33 0	Suburban Residential Closed Pip RCP Elliptic Suburban Residential Closed Pip Other Circula Suburban Residential Closed Pip RCP Circula	2 Single 12 No No No 2 Single 6 No Partially No 2 Single 12 No No No				Unlikely Unlikely Unlikely
2021-01-21 8:55:55 AM NOLAN LYNCH OF-30-8 Outfall - OF-30-8 33 0 0 0 2021-01-21 8:56:30 AM NOLAN LYNCH OF-31-9 Outfall - OF-31-9 34 0 0	Suburban Residential Closed Pip PVC Circula Suburban Residential Closed Pip CMP Circula	2 Single 4 No No No No 2 Single 15 No No No No				Unlikely Unlikely
2021-01-20 9:59:13 AM NOLAN LYNCH OF:31-10 Outfall - OF:31-10 34 0 0 2021-01-20 10:05:29 AM NOLAN LYNCH OF:30-5 Outfall - OF:30-5 35 0 0	Suburban Residential Closed Pip RCP Circula Suburban Residential Closed Pip RCP Elliptic	2 Single 12 Partially No No No No	Ye	es .	Yes Inhibited roots and vines	Unlikely Unlikely
2021-01-20 157:04 PM NOLAN LYNCH 0F-39-15 Outfall - 0F-39-15 39 0 0 0 2021-01-20 21:03 7PM NOLAN LYNCH 0F-66-2 Outfall - 0F-66-2 38 0 0 0 2021-01-20 22:552 PM NOLAN LYNCH 0F-66-4 Uotfall - 0F-66-4 38 0 0 0	Suburban Residential Closed Pip RCP Circula	I 2 Single 12 No No No No 2 Single 12 Partially No				Unlikely Unlikely Unlikely
2021-01-20 2-25-52 PM NOLAN LYNCH OF-66-4 Outfall - OF-66-4 38 0 0 0 2021-01-20 2-30:08 PM NOLAN LYNCH OF-66-5 Outfall - OF-66-5 37 0 0 0 2021-01-20 9:00:18 AM NOLAN LYNCH OF-43-1 Outfall - OF-43-1 32 0 0 0	Suburban Residential Closed Pip RCP Elliptic	2 Single 12				Unlikely Unlikely Unlikely
2021-01-20 9:00:34 AM NOLAN LYNCH	Suburban Residential Closed Pip RCP Circula Suburban Residential Closed Pip RCP Circula	2 Single 12 Fully No Yes Trickle No 2 Single 16 Partially No Yes Moderate No	No No	0		Unlikely 36.86 8.03 364 1 75 0 0 <10 < 02
2021-01-20 9-30-41 AM NOLAN LYNCH 0F-45-2 Outfall - 0F-45-2 32 0 0 0 2021-01-20 9-45-50 AM NOLAN LYNCH 0F-45-7 Outfall - 0F-45-7 32 0 0 0 2021-01-20 9-45-50 AM NOLAN LYNCH 0F-35-6 Outfall - 0F-45-7 32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Suburban Residential Closed Pip RCP Circula	2 Single 24 Partially No Yes Moderate No 2 Single 12 Partially No Yes Trickie No 2 Single 12 Partially No Yes Trickie No	No Mo	0		Unlikely 43.34 6.32 789 .4 1.5 0 0 <10 .04
2021-01-20 10:053 AM NOLAN LYNCH 0F-35-5 Ourfall - 0F-35-5 32 0 0  2021-01-20 10:3051 AM NOLAN LYNCH 0F-35-4 Ourfall - 0F-35-4 32 0 0  2021-01-20 11:15:25 AM NOLAN LYNCH 0F-35-6 Ourfall - 0F-35-6 32 0 0	Suburban Residential Closed Pip RCP Circula	2 Single 12 Partially No Yes Trickle No 2 Single 24 No No Yes Trickle Yes 2 Single 24 Partially No Yes Moderate No	No Yes 1 - Few/SI Suds No No	o o		Unlikely 38.3 6.51 537 .20 .25 0 0 10 .06
2021-01-20 11:30-50 AM NOLAN LYNCH 0F-26-4 Outfall - OF-26-4 32 0 0 2021-01-20 11:35-55 AM NOLAN LYNCH 0F-26-5 Outfall - OF-26-5 32 0 0	Suburban Residential Closed Pip RCP Circula Suburban Residential Closed Pip RCP Circula	2 Single 36 Partially Partially Yes Trickle No 2 Single 36 No No Yes Moderate No	No.	0		Unlikely 41.36 6.78 522 .2 1 0 .25 52 .02 Unlikely 43.52 6.93 763 .30 .50 0 0 <10 <.02
2021-01-20 11:40:59 AM NOIAN LYNCH	Suburban Residential Closed Pip RCP Circula	2 Single 24	No Yes 1-Few/Si Suds No	0		Unlikely Unlikely 43.52 6.86 310 .1 .25 0 0 20 .12
2021-01-20 1:00:12 PM NOLAN LYNCH OF-28-6 Outfall - OF-28-6 32 0 0	Suburban Residential Closed Pip RCP Circula	2 Single 24 No Partially Yes Moderate Yes	Yes 1 - Few/SI Suds No	•		Unlikely 41 6.25 257 .1 .25 0 0 <10 <.02

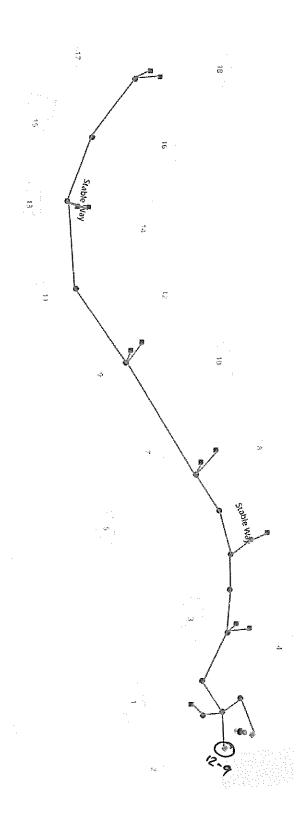
2021-01-20 115:17 PM NOUAN LYNCH OF-27-2 Outfall - 0F-27-2 32 0 2021-01-20 115:45 PM NOUAN LYNCH OF-28-4 Outfall - 0F-28-4 32 0 2021-01-31 2033 PM NOUAN LYNCH OF-28-1 Outfall - 0F-47-11 38 0 2021-01-31 2031 PM NOUAN LYNCH OF-48-17 Outfall - 0F-48-17 38 0 2021-01-31 2011 PM NOUAN LYNCH OF-48-17 Outfall - 0F-48-17 38 0	0 Suburban Residential 0 Suburban Residential 0 Commercial 0 Commercial 0 Commercial	Closed Pig RCP   Circular 2 Single 24 No No No No Closed Pig RCP   Circular 2 Single 12 Fully Fully Yes	Trickle Yes	Yes 1 - Faint C Orange	No No No No			Unilitely Unilitely 44.6 6.3 349 .2 .75 0 .25 <10 <.02 Unilitely Unilitely Unilitely
2011-03-19 10-03-19 M MOLAN LYNCH 01-47-7	O Suburban Residential	Closed Play Seed   Circular 2 Single 12 No Fully No No Closed Play Chief   Circular 2 Single 6 Partially No No Closed Play Chief   Circular 2 Single 12 No Partially No No Closed Play RCP   Circular 2 Single 16 No No No No Closed Play RCP   Circular 2 Single 12 No No No No Closed Play RCP   Circular 2 Single 12 No No No No Closed Play RCP   Circular 2 Single 12 No No No No Closed Play RCP   Circular 2 Single 12 No			No No No Yes No No No No	Yes Other	Yes Excessive brush from homeowners blocking pipe	Unilizely
2021-01-31-31-33-21-2PM MODAL WINCH 0F-39-3 Outsils 0F-39-34 42 0 2021-01-31-32-25-9M MODAL WINCH 0F-39-4 Outsils 0F-39-34 42 0 2021-01-31-32-25-9M MODAL WINCH 0F-39-36 Outsils 0F-39-36 42 0 2021-01-31-32-32-29M MODAL WINCH 0F-39-36 Outsils 0F-39-36 42 0 2021-01-31-31-31-9M MODAL WINCH 0F-36-5 Outsils 0F-39-36 42 0 2021-01-31-32-32-34 M MODAL WINCH 0F-36-5 Outsils 0F-36-1 42 0 2021-01-31-32-32-34 M MODAL WINCH 0F-37-6 Outsils 0F-36-1 31 0 2021-01-31-32-32-34 M MODAL WINCH 0F-37-6 Outsils 0F-32-3 36 0 2021-01-31-32-33-34 M MODAL WINCH 0F-32-0 Outsils 0F-32-3 36 0 2021-01-31-32-32-34 M MODAL WINCH 0F-32-0 Outsils 0F-32-3 36 0 2021-01-31-32-32-34 M MODAL WINCH 0F-32-0 Outsils 0F-32-3 36 0 2021-01-31-32-32-34 M MODAL WINCH 0F-32-0 Outsils 0F-32-3 36 0 2021-01-31-32-32-34 M MODAL WINCH 0F-32-0 Outsils 0F-32-3 36 0 2021-01-31-32-32-34 M MODAL WINCH 0F-32-0 Outsils 0F-32-3 36 0 2021-01-31-32-32-34 M MODAL WINCH 0F-32-0 Outsils 0F-32-3 36 0 2021-01-31-32-32-34 M MODAL WINCH 0F-32-0 Outsils 0F-32-3 36 0 2021-01-31-31-32-34 M MODAL WINCH 0F-32-0 Outsils 0F-32-3 36 0 2021-01-31-31-32-34 M MODAL WINCH 0F-32-0 Outsils 0F-32-3 36 0 2021-01-31-31-32-34 M MODAL WINCH 0F-32-0 Outsils 0F-32-3 36 0 2021-01-31-31-32-34 M MODAL WINCH 0F-32-0 Outsils 0F-32-3 36 0 2021-01-31-31-32-34 M MODAL WINCH 0F-32-0 Outsils 0F-32-3 36 0 2021-01-31-31-32-34 M MODAL WINCH 0F-32-0 Outsils 0F-32-3 36 0 2021-01-31-31-32-34 M MODAL WINCH 0F-32-0 Outsils 0F-32-3 36 0 2021-01-31-31-32-34 M MODAL WINCH 0F-32-0 Outsils 0F-32-3 36 0 2021-01-31-31-32-34 M MODAL WINCH 0F-32-0 Outsils 0F-32-3 36 0 2021-01-31-31-32-34 M MODAL WINCH 0F-32-0 Outsils 0F-32-3 36 0 2021-01-31-31-31-34 M MODAL WINCH 0F-32-0 Outsils 0F-32-3 36 0 2021-01-31-31-31-34 M MODAL WINCH 0F-32-0 Outsils 0F-32-3 36 0 2021-01-31-31-31-34 M MODAL WINCH 0F-32-0 Outsils 0F-32-3 36 0 2021-01-31-31-31-34 M MODAL WINCH 0F-32-0 Outsils 0F-32-3 36 0 2021-01-31-31-31-31-31-31-31-31-31-31-31-31-31	O Suburban Residential	Closed Pig REP   Circular 2 Single 12 No No No No Closed Pig REP   Circular 3 Single 18 No No No No Closed Pig REP   Circular 2 Single 18 No			No No No No No No No No No No No No No N			Unilitely
2011-01-01-01-01-01-01-01-01-01-01-01-01-	0 Suburban Residential	Closed Pig RCP   Croular 2 Single 12 No No No No Closed Pig RCP   Croular 2 Single 12 No No No No Closed Pig RCP   Croular 2 Single 12 No No No No No Closed Pig RCP   Croular 2 Single 18 No No No No Closed Pig RCP   Elliptical 2 Single 18   Furtisby No No No Closed Pig RCP   Elliptical 2 Single 18   Furtisby No No No Closed Pig RCP   Elliptical 2 Single 18 No No No No Closed Pig RCP   Elliptical 2 Single 18 No Partisby No Closed Pig RCP   Elliptical 2 Single 18   No No No No Closed Pig RCP   Elliptical 2 Single 18   No Partisby No Closed Pig RCP   Elliptical 2 Single 19   Partisby No No No Closed Pig RCP   Elliptical 2 Single 19   Partisby No No No Closed Pig RCP   Elliptical 2 Single 19   Partisby No No No Closed Pig RCP   Elliptical 2 Single 19   Partisby No No No No Closed Pig RCP   Elliptical 2 Single 19   Partisby No			No. 10 No	5 5	Yes Inhibited Yes Inhibited Yes Inhibited Yes Inhibited overgrown retention Yes Inhibited Yes Other Yes Inhibited Yes Other Yes Inhibited Yes Other Yes Inhibited Water path needs to be drudged	Unitative
2021-03-21 2023-97 AM NOLAN UNCHO	O Suburban Residential O Suburban Residential O Suburban Residential O Suburban Residential O Commercial	Conced Pig RCP   Elliptical   2 Single 12   Partially Partially No No Closed Pig RCP   Circular   2 Single 12   Fully No No No Closed Pig RCP   Circular   2 Single 12   Partially No   No Closed Pig RCP   Circular   2 Single 12   Partially No   No No Closed Pig RCP   Circular   2 Single 12   Fully No No No Closed Pig RCP   Circular   2 Single 12   Fully No   No Closed Pig RCP   Circular   2 Single 12   Partially No   No Closed Pig RCP   Circular   2 Single 13   Partially No   No Closed Pig RCP   Circular   2 Single 14   Partially No   No Closed Pig RCP   Circular   2 Single 14   Partially No   No No Closed Pig RCP   Circular   2 Single 14   Partially No   No No Closed Pig RCP   Circular   2 Single 14   Partially No   No No Closed Pig RCP   Circular   2 Single 14   Partially No   No No No Closed Pig RCP   Circular   2 Single 14   Partially No   No No No Closed Pig RCP   Circular   2 Single 14   Partially No   No No No No No No No No No No No No No			No No No No No No No No No No No No No N			Unilizely
2021-03-08 11:05-54 AM DPW Admin 0F-33-1 Outfall -0F-33-1 S 0 2021-03-08 10:07-27 AM DPW Admin 0F-33-2 S 0 2021-03-08 10:07-27 AM DPW Admin 0F-66-1 Outfall -0F-33-2 S 0 2021-03-08 10:02-27 AM DPW Admin 0F-66-1 Outfall -0F-66-1 33 0 2021-03-08 21:01-07 AM DPW Admin 0F-15-5 Outfall -0F-51-3 43 0 2021-03-08 21:01-07 AM DPW Admin 0F-12-5 Outfall -0F-12-5 43 0 2021-03-08 21:03-99 AM DPW Admin 0F-12-5 Outfall -0F-12-6 43 0 2021-03-08 21:03-99 AM DPW Admin 0F-12-5 Outfall -0F-12-6 43 0 2021-03-08 21:03-09 AM DPW Admin 0F-3 Outfall -0F-3 Outfall -0F-	O Industrial O Suburban Residential	Closed Pig RCF   Cricular 2 Single 12   Partially No No No Closed Pig RCF   Cricular 2 Single 24   No Partially No No No No Closed Pig RCF   Cricular 2 Single 10 No No No No Closed Pig RCF   Elliptical 2 Single 24 No No No No Closed Pig RCF   Elliptical 2 Single 12 No No No No Closed Pig RCF   Cricular 2 Single 15 No No No No Closed Pig RCF   Cricular 2 Single 15 No No No No Closed Pig RCF   Cricular 2 Single 34   Partially Partially No No Closed Pig RCF   Cricular 2 Single 34   Partially Partially No No Closed Pig RCF   Cricular 2 Single 15   Partially Partially No No Closed Pig RCF   Cricular 2 Single 15   Partially No			No. No. No. No. No. No. No. No. No. Certain Control No.	s Yes Other	Yes Floatables Trash Dumping	Unillady Unillady Unillady Unillady Unillady Unillady 3
2012-09-02:05-14 PM, DPM Admin 0F-22-18 Outfall -0F-22-18 0 0 2012-09-01-05-05-14 M, DPM Admin 0F-9-3 Outfall -0F-9-3 45 0 2012-09-01-05-05-14 M, DPM Admin 0F-9-3 Outfall -0F-9-4 0 0 2012-09-01-05-05-14 M, DPM Admin 0F-9-4 Outfall -0F-9-4 50 0 2012-09-01-05-05-14 M, DPM Admin 0F-9-4 0 Outfall -0F-9-1 6 0 2012-09-01-05-04-14 M, DPM Admin 0F-9-5 Outfall -0F-9-7 6 0 2012-05-01-05-05-14 M, DPM Admin 0F-9-5 Outfall -0F-9-7 6 0 2012-05-01-0	O Suburban Residential	Closed Pig RCF   Circular 2 Single 24   Partially No No No Closed Pig RCF   Elliptical 3 Single 12   No No No No No Closed Pig RCF   Circular 2 Single 12   No			No No No No No No No No No No No No No N			Unilizely 9 CB Unilizely 2 CB Unilizely 2 CB Unilizely 1 CD po Inite
2021-03-19-20-19-3AM DPW Admin 07-89-13 Oxfall -07-49-1 20 0 0 0xfall -07-49-13 40 0 0 0 0xfall -07-49-13 40 0 0 0xfall -07-49-14 40 0 0 0xfall -07-49-14 40 0 0xfall -0	O Suburban Residential O Users Space (Woodled) Suburban Residential O Suburban Residential O Suburban Residential O Suburban Residential O Suburban Residential	Closed Pig RCF   Croular 2 Single 12   Partially No No No Closed Pig RCF   Elliptical 2 Single 35   Partially No No Closed Pig RCF   Elliptical 2 Single 36   Partially No No No Closed Pig RCF   Elliptical 2 Single 36   Partially No No No No Closed Pig RCF   Croular 2 Single 12   No Partially No	Trickle No Moderate Ves Moderate Ves Moderate No Substantial No	Yes 1- Faint C Green	100 Mo			Unlikely 4 CB Unlikely 0 Unlikely 1 Unlikely 2 Unlikely 2 Unlikely 1 Unlikely 1 Unlikely 1 Unlikely 1 Unlikely 4 Unlikely 5 Unlikely 5 Unlikely 5 Unlikely 5 Unlikely 6 Unlikely 4 Unlikely 6 Unlikely 4 Unlikely 6 Unlikely
2021-03-27 SAU D'AVA ÁMPO MA ÁMPO D'-23-6 Outfall -07-23-6 3 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	O Suburban Residential	Closed Pig RCP   Circular 2 Single 12   Partially No Yes	Substantia East No Moderate No Moderate Sat No Moderate Sat No Moderate No Trickle No		No No No No No No		Yes Excessive Excessive Vegatation around outfall area hard to get too.	Unilsely 2 CB 43 6.56 734 .30 .25 0 0 4.10 0 Unilsely 1 CB 2 CB
2011-04-08 5:02-08 AM DEW Admin 0F-25-74 0F-27-14 0F-27-1	O Suburban Hasisentrial O Suburban Rasisentrial	Context   Cont	Moderate No Moderate No Trickle No Moderate No Trickle No Moderate No Moderate No Moderate No		No tes No Ci Ci Ci Mo Mo Mo Mo Mo Mo Mo Mo Mo Mo Mo Mo Mo		Yes Inhibited Hurd to get to outfall Yes Excessive	Unillately 4. CB 6. CB 1. CB 1
2021-04-06 11:204.1 AM DOUNT WORD   07-19.1   0xfm1 07-19.2   56   0   2021-04-06 11:205.4 AM DOUNT WORD   07-19.2   0xfm1 07-19.2   50   0   0   2021-04-06 11:205.5 AM DOUNT WORD   07-19.7   0xfm1 07-19.2   50   0   0   0   0   0   0   0   0	Suburban Residential	Closed Ply REP   Crecius   2-5 signed   24   No   No   Yes	Moderate No Trickle Yes Trickle No Trickle No		No.		Yes Oli Sheen HEAVY	Unilhely 11C8 56 5.9 698 40 .25 0 0 170 0 Unilhely 11C8 58 5.9 78 77 4 .25 0 0 1300 0 Unilhely 11C8 58 5.97 78 77 4 .25 0 0 1300 0 Unilhely 8 C8 57.8 5.88 869 40 .25 0 0 10 10 0 Unilhely 7 C8+1hele 52 609 1770 50 .25 0 0 1130 11 Unilhely 5 C8 96 612 544 30 .25 0 0 1130 .11 Unilhely 15C8 96 612 544 30 .25 0 0 3 13 1.36 Unilhely 15C8 96 612 544 30 .25 0 0 3 13 1.36 Unilhely 15C8 96 612 544 30 .25 0 0 3 13 1.36 Unilhely 15C8 96 612 544 30 .25 0 0 3 10 .04 Unilhely 15C8 96 612 544 30 .25 0 0 280 .22 Unilhely 15C8 97 88 802 .30 .25 0 0 20 .20
2021-04-31 20302-3 AM MODAN UNCHO 0F-68-2 Cutfall - 0F-68-2 30 022 2021-041 35-35 20 AM MODAN UNCHO 0F-61-2 Cutfall - 0F-61-3 33 022 2021-041 35-321 2 AM MODAN UNCHO 0F-61-2 Cutfall - 0F-61-3 33 022 2021-041 20	0.02 Suburban Residential 0.03 Suburban Residential 0.00 Suburban Residential 0.01 Suburban Residential 0.00 Suburban Residential	Closed Pig RCP   Circular 2 Single 12   No No No No Closed Pig RCP   Circular 2 Single 18   No No No No Closed Pig RCP   Circular 2 Single 2   No No No No No Closed Pig RCP   Circular 2 Single 2   No			No No No No Yes No No Yes No No No No No No No No No No No No No	s Yes Corrosion Resident concerned fix eroding outfall	Yes Inhibited Brush fror Yes Floatables Residents Trash	Unillady 12 CB Unillady 16 CB - 1 since Unillady 16 CB - 1 since Unillady 16 CB - 1 since Unillady 1 since 1 - 2 depointe Unillady 1 since 1 - 2 depointe Unillady 1 since 1 - 2 depointe Unillady 2 CB - 2 since Unillady 2 CB - 2 CB - 2 Since Unillady 2 CB - 2 CB
2011-04-12 8:2003 AM NOLAN TWICH 07-81-3	0 Suburban Residential	Closed Pig CAM   Credial 7 3 Single 12   No   Partially No	Substantial No Moderate No Trickle Yes No Trickle No Moderate No	No No	No Yes No No No No Yes 1 - Few/SI Petroleum (oil sheer, No No No No No No No No No No No No No N		Yes Floatables Trash	Unilitely 1 CB Unilitely 2 CB 1 Inlet Unilitely 2 CB 1 Unilitely 2 CB 1 Unilitely 2 CB 1 Unilitely 2 CB 2 Unilitely 2 CB 2 Unilitely 2 CB 2 Unilitely 2 CB 2 Unilitely 6 CB 5 1 SMET 6.5 3 6.5 83 0.4 0.25 0 0 4.10 0.02 Unilitely CB 5 1 SMET 6.3 6.55 83 0.4 0.25 0 0 4.10 0.11 Unilitely CB 5 1 SMET 6.3 0.5 83 0.4 0.25 0 0 4.10 0.11 Unilitely CB 5 1 SMET 6.3 0.5 83 0.25 0 0 0 4.10 0.11 Unilitely CB 5 1 SMET 6.3 0.5 83 0.25 0 0 0 4.10 0.11 Unilitely CB 5 1 SMET 6.3 0.5 83 0.3 0.25 0 0 0 4.10 0.11
2011-04-09 9:03-21 AM STPHANE CARLISLE 07-64-12	O Suburban Residential	Closed Pig RCP   Crediat 2 Single 12 No No Yes	Trickle No Trickle No Trickle No Trickle No Moderate No Moderate Ves No Trickle No Moderate No Trickle No Moderate No Trickle No	No No	No No Yes 1 - Few/Si Suds No	s No No	No Yes Floatables TRASH-Bi No No Yes Suds No	Unilitely 52.4 6.19 588 0.3 0.25 0 0 <10 0 Unilitely 158 6.33 751 0.3 0.25 0 0 <10 0 Unilitely 158 6.33 751 0.3 0.25 0 0 <10 0 Unilitely 159 5.54 1136 0.35 0.25 0 0 <10 0 Unilitely 158 5.64 1136 0.35 0.25 0 0 <10 0 Unilitely 158 5.64 1136 0.35 0.25 0 0 <10 0 Unilitely 159 5.64 128 0.35 0.25 0 0 <10 0 Unilitely 159 5.64 128 0.35 0.25 0 0 <10 0 Unilitely 159 5.64 128 0.35 0.25 0 0 0 <10 0 Unilitely 159 5.64 128 0.3 0.35 0.35 0.35 0.35 0.35 0.35 0.35
2021-04-12 DOISS AND STEPHANE CARRISS 07-9-9 Outsil 07-9-9 49 00.0 2021-04-12 DOISS AND STEPHANE CARRISS 07-9-9 Outsil 07-9-9 49 00.0 2021-04-12 DOISS AND STEPHANE CARRISS 07-10-12 Outsil 07-12-13 40 0.0 2021-04-12 DOIS AND STEPHANE CARRISS 07-11 Outsil 07-12-13 47 0.0 2021-04-12 DOIS AND STEPHANE CARRISS 07-11 Outsil 07-13-1 47 0.0 2021-04-12 DOIS AND STEPHANE CARRISS 07-10-10 Outsil 07-13-1 47 0.0 2021-04-12 DOIS AND STEPHANE CARRISS 07-10-10 Outsil 07-13-1 47 0.0 2021-04-12 DOIS AND STEPHANE CARRISS 07-10-10 Outsil 07-13-1 48 0.0 2021-04-12 DOIS AND STEPHANE CARRISS 07-10-10 Outsil 07-13-10 48 0.0 2021-04-12 DOIS AND STEPHANE CARRISS 07-10-10 Outsil 07-13-10 48 0.0 2021-04-12 DOIS OWN STEPHANE CARRISS 07-10-10 Outsil 07-13-10 49 0.0 2021-04-12 DOIS OWN STEPHANE CARRISS 07-10-10 Outsil 07-13-10 40 0.0 2021-04-12 DOIS OWN STEPHANE CARRISS 07-10-10 Outsil 07-13-10 40 0.0 2021-04-12 DOIS OWN STEPHANE CARRISS 07-10-10 Outsil 07-13-10 40 0.0 2021-04-12 DOIS OWN STEPHANE CARRISS 07-10-10 Outsil 07-13-10 40 0.0 2021-04-12 DOIS OWN STEPHANE CARRISS 07-10-10 Outsil 07-13-10 40 0.0 2021-04-12 DOIS OWN STEPHANE CARRISS 07-10-10 Outsil 07-13-10 40 0.0 2021-04-12 DOIS OWN STEPHANE CARRISS 07-10-10 Outsil 07-13-10 40 0.0 2021-04-12 DOIS OWN STEPHANE CARRISS 07-10-10 Outsil 07-13-10 40 0.0 2021-04-12 DOIS OWN STEPHANE CARRISS 07-10-10 Outsil 07-13-10 40 0.0 2021-04-12 DOIS OWN STEPHANE CARRISS 07-10 0.0 2021-04-12 DOIS OWN S	0.01 Suburban Hesidential 0.01 Suburban Hesidential 0.01 Suburban Hesidential 0.01 Suburban Hesidential 0.01 Suburban Residential 0.02 Suburban Residential 0.02 Suburban Residential 0.02 Suburban Residential 0.03 Suburban Residential 0.04 Suburban Residential 0.05 Suburban Residential 0.06 Suburban Residential	Context   Part   Context   2 Strate   2 St	Moderate No Moderate No Moderate No Moderate No Trickle No Trickle No Trickle No Trickle No Moderate No Moderate No Moderate No Moderate No Moderate No		Note Note Note Note Note Note Note Note			Umlikely 50.8 6.89 684 0.1 0.2 0.2 0 0 4.00 0 U Umlikely 51 6.85 6.85 6.85 6.85 0.2 0.2 0.2 0.0 0 0 0 0 0 0 0 0 0 0 0 0
2013-04-11 2014-57 AM STEPHANE CARLISE OF-69-2 Contril -0-69-2 0 0.00 2012-04-03 15-04 M STEPHANE CARLISE 07-9-11 0.00 2012-04-03 12-04-49 M STEPHANE CARLISE 07-9-11 0.00 2012-04-03 12-04-49 M STEPHANE CARLISE 07-9-3 Contril -0-69-3 0 0 2012-04-03 12-05-09 M STEPHANE CARLISE 07-9-3 Contril -0-69-3 0 0 2012-04-03 12-05-09 M STEPHANE CARLISE 07-9-3 Contril -0-69-3 0 0 2012-04-13 12-05-09 M STEPHANE CARLISE 07-9-3 Contril -0-69-2 5 0.00 2012-04-13 12-05-09 M STEPHANE CARLISE 07-6-2 Contril -0-64-2 5 0.00 2012-04-13 12-05-09 M STEPHANE CARLISE 07-6-12 Contril -0-64-2 5 0.00 2012-04-13 12-05-09 M STEPHANE CARLISE 07-6-12 Contril -0-64-2 5 0.00 2012-04-13 12-05-39 M STEPHANE CARLISE 07-6-12 Contril -0-64-2 5 0.00 2012-04-13 12-05-39 M STEPHANE CARLISE 07-6-12 Contril -0-64-2 5 0.00	0.00 Suburban Periodential 0.01 Suburban Periodential 0 Suburban Periodential 0 Suburban Residential	Closed Pig RC	Moderate No Trickle No Trickle Yes No Moderate No Trickle No	Yes 2 - Clearly Orange COLOR (5) No	vous Noise Yes Petroleur natural al Tes Noise No	s No No	Yes Inhibited CREATED' No No No Yes Of Sheen Oil SHEEP No	Unitable
AGITA-12 LEGICA PM STEPHANE CARLISE OF-9-16  Outfall OF-9-26 E5 5 0  Outfall OF-9-36 E5 5 0	0	Closed Pay R.P. Elliptical 2 Single 2A Partnally No. 19th Closed Pay R.P. Circular 2 Single 16 No. No. No. No. Closed Pay R.P. Circular 2 Single 12 No. No. No. 19th Closed Pay R.P. Circular 2 Single 12 No. No. 19th Closed Pay R.P. Circular 2 Single 14 No. No. 19th Closed Pay R.P. Circular 2 Single 16 No. No. 19th Closed Pay R.P. Circular 2 Single 24 No. No. 19th Closed Pay R.P. Circular 2 Single 24 No. No. 19th Closed Pay R.P. Circular 2 Single 24 No. No. 19th Closed Pay R.P. Circular 2 Single 24 No. No. 19th Closed Pay R.P. Elliptical 2 Single 12 No. No. 19th Closed Pay R.P. Elliptical 2 Single 12 No. No. 19th Closed Pay R.P. Elliptical 2 Single 12 No. No. 19th Closed Pay R.P. Elliptical 2 Single 12 No. No. 19th Closed Pay R.P. Elliptical 2 Single 12 No. No. 19th Closed Pay R.P. Elliptical 2 Single 12 No. No. 19th Closed Pay R.P. Elliptical 2 Single 12 No. No. 19th Closed Pay R.P. Elliptical 2 Single 12 No. No. 19th Closed Pay R.P. Elliptical 2 Single 12 No. No. 19th Closed Pay R.P. Elliptical 2 Single 12 No. No. 19th Closed Pay R.P. Elliptical 2 Single 12 No. No. 19th Closed Pay R.P. Elliptical 2 Single 12 No. No. 19th Closed Pay R.P. Elliptical 2 Single 12 No. No. 19th Closed Pay R.P. Elliptical 2 Single 12 No. No. 19th Closed Pay R.P. Elliptical 2 Single 12 No. No. 19th Closed Pay R.P. Elliptical 2 Single 12 No. No. 19th Closed Pay R.P. Elliptical 2 Single 12 No. 19th Closed Pay R.P. Elliptical 2 Single 12 No. 19th Closed Pay R.P. Elliptical 2 Single 12 No. 19th Closed Pay R.P. Elliptical 2 Single 12 No. 19th Closed Pay R.P. Elliptical 2 Single 12 No. 19th Closed Pay R.P. Elliptical 2 No. 19th Clo	Trickle No Trickle No Trickle No Trickle No Trickle No Moderate No Moderate No Trickle No		No No No No No No No No			Unillely 1 cb 5 6.52 300 0.2 2.52 0 0 4.00 0.01 Unillely Unillely 1 cb 5 6.52 300 0.2 0.25 0 0 0 4.00 0.1 Unillely Unillely Investigators Nolan 1 S4.4 6.41 425 0.2 0.25 0 0 0 4.00 0.3 Unillely Investigators Nolan 1 S4.4 6.51 4.55 0.2 0.25 0 0 0.25 4.00 0.0

2021-04-08 10:10:10 AM STEPHANIE CARLISLE OF-56-7	Outfall - OF-56-7 55	0	0	Suburban Residential	Closed Pip RCP	Elliptical 2 Single 24	No No	Yes Trickle	No	
2021-04-08 11:45:03 AM STEPHANIE CARLISLE OF-57-11	Outfall - OF-57-11 55	0	0	Suburban Residential	Closed Pip RCP	Circular 2 Single 12	Partially Partially	Yes Trickle	No	
2021-04-08 10:00:20 AM STEPHANIE CARLISLE OF-66-7 2021-04-12 1:45:15 PM STEPHANIE CARLISLE OF-71-5	Outfall - OF-66-7 50 Outfall - OF-71-5 52	0.01	0.01	Industrial Suburban Residential	Closed Pip RCP Closed Pip RCP	Circular 2 Single 15 Circular 2 Single 12	No No No No	Yes Substantial Yes Trickle	No No	
2021-04-14 1:45:33 PM STEPHANIE CARLISLE OF-1-1	Outfall - OF-1-1 65	0	0	Institutional	Closed Pip HDPE	Circular 2 Single 12	No No	No		
2020-12-14 10:47:42 AM STEPHANIE CARLISLE OF-4-9 2021-04-06 1:54:19 PM STEPHANIE CARLISLE OF-9-8	Outfall - OF-4-9 37 Outfall - OF-9-8 68	0.09	0.35	Suburban Residential Suburban Residential	Closed Pip RCP Closed Pip RCP	Circular 2 Single 16 Circular 2 Single 16	No No Partially No	No Yes Substantial	No	
2020-12-30 10:54:42 AM STEPHANIE CARLISLE OF-12-13	Outfall - OF-12-13 28	ō	ő	Suburban Residential	Closed Pip RCP	Circular 2 Single 16	No No	No	140	
2020-12-30 10:58:42 AM STEPHANIE CARLISLE OF-12-14 2021-03-09 2:15:51 PM STEPHANIE CARLISLE OF-15-2	Outfall - OF-12-14 28 Outfall - OF-15-2 50	0	0	Suburban Residential Institutional	Closed Pip RCP Closed Pip HDPE	Circular 2 Single 16 Circular 2 Single 12	No No No No	No No		
2021-03-09 2:15:33 PM STEPHANIE CARLISLE 0F-15-2	Outfall - OF-15-3 50	0	0	Institutional	Closed Pip HDPE	Circular 2 Single 12	Fully Fully	No		
2021-01-12 10:58:58 AM STEPHANIE CARLISLE OF-16-9	Outfall - OF-16-9 36	0	0	Suburban Residential	Closed Pip RCP	Circular 2 Single 12	No No	No		
2020-12-16 11:48:34 AM STEPHANIE CARLISLE OF-19-14 2021-04-06 10:45:10 AM STEPHANIE CARLISLE OF-19-15	Outfall - OF-19-14 22 Outfall - OF-19-15 50	0	0.09	Suburban Residential Suburban Residential	Closed Pip RCP Closed Pip RCP	Circular 2 Single 12 Elliptical 2 Single	No No Partially Partially	No No		
2021-03-09 10:15:07 AM STEPHANIE CARLISLE OF-20-2	Outfall - OF-20-2 45	0	0	Suburban Residential	Closed Pip RCP	Circular 2 Single 12	No No	No		
2021-03-09 10:15:37 AM STEPHANIE CARLISLE OF-20-3 2021-03-09 10:30:06 AM STEPHANIE CARLISLE OF-20-4	Outfall - OF-20-3 45 Outfall - OF-20-4 45	0	0	Suburban Residential Suburban Residential	Closed Pip RCP Closed Pip RCP	Circular 2 Single 12 Circular 2 Single 12	No No No No	No No		
2021-03-09 10:30:48 AM STEPHANIE CARLISLE OF-20-5	Outfall - OF-20-5 45	0	0	Suburban Residential	Closed Pip RCP	Circular 2 Single 18	No No	No		
2021-03-09 10:40:22 PM STEPHANIE CARLISLE OF-20-6 2021-03-09 11:59:00 PM STEPHANIE CARLISLE OF-20-7	Outfall - OF-20-6 45 Outfall - OF-20-7 45	0	0	Suburban Residential Suburban Residential	Closed Pip RCP Closed Pip HDPE	Circular 2 Single 18 Circular 2 Single 12	No No No No	No No		
2021-03-09 10:48:07 AM STEPHANIE CARLISLE OF-20-8	Outfall - OF-20-8 45	0	0	Suburban Residential	Closed Pip HDPE	Circular 2 Single 12	No No	No		
2021-03-09 10:45:24 AM STEPHANIE CARLISLE OF-20-8 2021-04-12 11:05:06 AM STEPHANIE CARLISLE OF-21-12	Outfall - OF-20-8 45 Outfall - OF-21-12 52	0	0	Suburban Residential Suburban Residential	Closed Pip HDPE Closed Pip RCP	Circular 2 Single 12 Circular 2 Single 18	No No No No	No No		
2021-04-12 9:10:48 AM STEPHANIE CARLISLE OF-22-19	Outfall - OF-22-19 47	0.01	0.01	Commercial	Closed Pip RCP	Circular 2 Single 12	Partially No	No		
2021-04-12 12:12:18 PM STEPHANIE CARLISLE OF-22-20 2021-03-09 2:00:46 PM STEPHANIE CARLISLE OF-23-7	Outfall - OF-22-20 30 Outfall - OF-23-7 50	0	0	Suburban Residential	Closed Pip PVC	Circular 1 Double 3 Circular 2 Single 8	No Partially No No	No No		
2021-03-17 9:35:56 AM STEPHANIE CARLISLE OF-23-8	Outfall - OF-23-8 39	0	0	Suburban Residential	Closed Pip RCP	Circular 12	No No	No		
2021-03-23 12:00:41 PM STEPHANIE CARLISLE OF-24-2 2021-04-06 9:23:05 AM STEPHANIE CARLISLE OF-27-1	Outfall - OF-24-2 55 Outfall - OF-27-1 43	0	0	Commercial Suburban Residential	Closed Pip HDPE Closed Pip RCP	Circular 2 Single 12 Circular 2 Single 36	No No Partially No	No No		
2021-04-06 9:15:46 AM STEPHANIE CARLISLE OF-28-5	Outfall - OF-28-5 42	0	0	Suburban Residential	Closed Pip RCP	Circular 2 Single 24	Partially No	No		
2021-04-06 8:45:00 AM STEPHANIE CARLISLE OF-28-7 2021-04-06 11:30:30 AM STEPHANIE CARLISLE OF-28-9	Outfall - OF-28-7 42 Outfall - OF-28-9 50	0	0	Suburban Residential	Closed Pip Other	Circular 2 Single 15	Partially No	No		
2021-04-06 11:30:30 AM STEPHANIE CARLISLE 0F-28-9 2021-04-06 8:45:24 AM STEPHANIE CARLISLE 0F-28-11	Outfall - OF-28-9 50 Outfall - OF-28-11 40	0	0	Suburban Residential Suburban Residential	Closed Pip RCP Closed Pip RCP	Circular 2 Single 16 Elliptical 2 Single 36	No No Partially No	No No		
2021-03-09 10:48:53 AM STEPHANIE CARLISLE OF-28-12	Outfall - OF-28-12 54	0	0	Suburban Residential	Closed Pip RCP	Elliptical 2 Single 18	No No	No		
2021-03-09 10:44:26 AM STEPHANIE CARLISLE OF-28-13 2021-03-08 12:45:13 PM STEPHANIE CARLISLE OF-29-1	Outfall - OF-28-13 52 Outfall - OF-29-1 35	0	0	Suburban Residential Institutional	Closed Pip RCP Closed Pip HDPE	Elliptical 2 Single 12 Circular 2 Single 16	No No No No	No No		
2021-03-09 12:45:52 PM STEPHANIE CARLISLE OF-29-2	Outfall - OF-29-2 35	0	0	Institutional	Closed Pip HDPE	Circular 2 Single 16	No No	No		
2021-03-08 12:15:32 PM STEPHANIE CARLISLE OF-29-3 2021-03-08 12:00:16 PM STEPHANIE CARLISLE OF-29-4	Outfall - OF-29-3 35 Outfall - OF-29-4 35	0	0	Institutional Institutional	Closed Pip HDPE Closed Pip HDPE	Circular 2 Single 16 Circular 2 Single 16	No No No No	No No		
2021-01-20 9:05:49 AM STEPHANIE CARLISLE OF-30-9	Outfall - OF-30-9 33	0	0	Suburban Residential	Closed Pip HDPE	Circular 2 Single 16	No No	No		
2021-03-09 11:30:47 AM STEPHANIE CARLISLE OF-31-11 2021-04-12 8:45:05 AM STEPHANIE CARLISLE OF-31-12	Outfall - OF-31-11 60 Outfall - OF-31-12 46	0	0	Suburban Residential Institutional	Closed Pip HDPE Closed Pip RCP	Circular 2 Single 12 Circular 2 Single 18	No No No No	No No		
2021-03-08 10:50:36 AM STEPHANIE CARLISLE OF-32-6	Outfall - OF-32-6 35	0	0	Industrial	Closed Pip HDPE	Circular 2 Single 12	No No	No		
2021-03-08 10:50:07 AM STEPHANIE CARLISLE OF-32-5 2021-03-08 11:00:11 AM STEPHANIE CARLISLE OF-32-7	Outfall - OF-32-5 35 Outfall - OF-32-7 35	0	0	Industrial Industrial	Closed Pip RCP Closed Pip HDPE	Circular 2 Single 24 Circular 1 Double 12	Fully No No No	No No		
2021-03-08 11:00:52 AM STEPHANIE CARLISLE OF-32-8	Outfall - OF-32-8 35	0	0	Industrial	Closed Pip HDPE	Circular 2 Single 12	No No	No		
2021-03-08 11:00:09 AM STEPHANIE CARLISLE OF-32-9	Outfall - OF-32-9 35 Outfall - OF-32-10 35	0	0	Industrial	Closed Pip HDPE	Circular 2 Single 12	Partially No	No		
2021-03-08 11:00:49 AM STEPHANIE CARLISLE OF-32-10 2021-03-11 9:50:41 AM STEPHANIE CARLISLE OF-32-11	Outfall - OF-32-10 35 Outfall - OF-32-11 50	0	0	Industrial Suburban Residential	Closed Pip HDPE Closed Pip RCP	Circular 2 Single 12 Elliptical 12	No No No No	No No		
2021-03-11 9:09:37 AM STEPHANIE CARLISLE OF-35-7	Outfall - OF-35-7 47 Outfall - OF-37-2 40	0	0	Suburban Residential	Closed Pip RCP	Circular 2 Single 12	Partially Fully	No		
2021-04-06 8:30:23 AM STEPHANIE CARLISLE OF-37-2 2021-04-06 8:30:08 AM STEPHANIE CARLISLE OF-37-4	Outfall - OF-37-2 40 Outfall - OF-37-4 38	0	0	Suburban Residential Suburban Residential	Closed Pip RCP Closed Pip RCP	Circular 2 Single 12 Circular 2 Single 24	Partially Partially Fully No	No No		
2021-03-09 10:55:52 AM STEPHANIE CARLISLE OF-37-17	Outfall - OF-37-17 53	0	0	Suburban Residential	Closed Pip RCP	Elliptical 2 Single 12	No No	No		
2021-03-09 10:59:55 AM STEPHANIE CARLISLE OF-37-18 2021-03-09 11:00:10 AM STEPHANIE CARLISLE OF-37-19	Outfall - OF-37-18 53 Outfall - OF-37-19 53	0	0	Suburban Residential Suburban Residential	Closed Pip RCP Closed Pip RCP	Elliptical 2 Single 15 Elliptical 2 Single 15	No No No No	No No		
2021-03-08 1:00:44 PM STEPHANIE CARLISLE OF-37-20	Outfall - OF-37-20 35	0	0	Institutional	Closed Pip HDPE	Circular 2 Single 16	No No	No		
2021-03-08 1:00:27 PM STEPHANIE CARLISLE OF-37-21 2021-03-08 12:15:31 PM STEPHANIE CARLISLE OF-37-22	Outfall - OF-37-21 35 Outfall - OF-37-22 35	0	0	Institutional Institutional	Closed Pip HDPE Closed Pip HDPE	Circular 2 Single 16 Circular 2 Single 16	No No No No	No No		
2021-03-08 1:00:33 PM STEPHANIE CARLISLE OF-37-23	Outfall - OF-37-23 35	0	0	Institutional	Closed Pip HDPE	Circular 2 Single 16	No No	No		
2021-03-08 12:45:25 PM STEPHANIE CARLISLE OF-38-1 2021-03-08 12:00:32 PM STEPHANIE CARLISLE OF-38-2	Outfall - OF-38-1 35 Outfall - OF-38-2 35	0	0	Institutional Institutional	Closed Pip HDPE Closed Pip HDPE	Circular 2 Single 36 Circular 2 Single 3	Partially No Partially No	No No		
2021-03-08 12:00:01 PM STEPHANIE CARLISLE OF-38-2	Outfall - OF-38-3 38	0	0	Institutional	Closed Pip HDPE	Circular 2 Single 24	Partially No	No		
2021-03-08 12:00:55 PM STEPHANIE CARLISLE OF-38-4 2021-03-08 11:30:13 AM STEPHANIE CARLISLE OF-38-5	Outfall - OF-38-4 35	0	0	Institutional	Closed Pip PVC	Circular 2 Single 6	No No	No		
2021-03-08 11:30:13 AM STEPHANIE CARLISLE OF-38-5 2021-03-08 12:00:03 PM STEPHANIE CARLISLE OF-38-6	Outfall - OF-38-5 35 Outfall - OF-38-6 35	0	0	Institutional Institutional	Closed Pip HDPE Closed Pip HDPE	Circular 2 Single 12 Circular 2 Single 16	No Fully No No	No No		
2021-03-08 11:15:53 AM STEPHANIE CARLISLE OF-38-7	Outfall - OF-38-7 35	0	0	Institutional	Closed Pip HDPE Closed Pip RCP	Circular 2 Single 12	No No	No		
2021-03-16 9:30:44 AM STEPHANIE CARLISLE OF-39-7 2021-01-15 2:11:57 PM STEPHANIE CARLISLE OF-39-17	Outfall - OF-39-7 25 Outfall - OF-39-17 45	0.09	0.09	Suburban Residential Suburban Residential	Closed Pip RCP Closed Pip RCP	Elliptical 2 Single 18 Circular 2 Single 12	No No No No	No No		
2021-03-16 10:30:56 AM STEPHANIE CARLISLE OF-40-9	Outfall - OF-40-9 30	0	0	Commercial	Closed Pip HDPE	Circular 2 Single 12	No No	No		
2021-03-16 10:30:53 AM STEPHANIE CARLISLE OF-40-10 2021-03-16 10:35:53 AM STEPHANIE CARLISLE OF-40-11	Outfall - OF-40-10 30 Outfall - OF-40-11 30	0	0	Commercial Commercial	Closed Pip HDPE Closed Pip HDPE	Circular 2 Single 12 Circular 2 Single 12	Partially Partially Partially Partially	No No		
2021-04-13 8:30:53 AM STEPHANIE CARLISLE OF-40-12	Outfall - OF-40-12 48	0.01	0.01	Open Space/Wooded	Closed Pip RCP	Circular 2 Single 12	No No	No		
2021-04-13 9:11:33 AM STEPHANIE CARLISLE OF-41-1 2021-03-16 10:00:43 AM STEPHANIE CARLISLE OF-41-2	Outfall - OF-41-1 54 Outfall - OF-41-2 30	0.01	0.01	Commercial Commercial	Closed Pip HDPE Closed Pip HDPE	Circular 2 Single 18 Circular 2 Single 24	Fully No No No	No No		
2021-03-16 10:00:16 AM STEPHANIE CARLISLE OF-41-3	Outfall - OF-41-3 30	0	0	Commercial	Closed Pip HDPE	Circular 2 Single 24	Partially No	No		
2021-03-22 7:20:45 AM STEPHANIE CARLISLE OF-41-4 2021-01-13 1:00:58 PM STEPHANIE CARLISLE OF-42-7	Outfall - OF-41-4 30 Outfall - OF-42-7 39	0	0	Suburban Residential Suburban Residential	Closed Pip HDPE Closed Pip RCP	Circular 2 Single 18 Circular 2 Single 12	No No No No	No No		
2021-01-13 1:23:53 PM STEPHANIE CARLISLE OF-42-9	Outfall - OF-42-9 39	0	0	Suburban Residential	Closed Pip PVC	Circular 2 Single 12	No No	No		
2021-03-17 11:00:34 AM STEPHANIE CARLISLE OF-42-10 2021-04-08 8:20:22 AM STEPHANIE CARLISLE OF-44-8	Outfall - OF-42-10 40 Outfall - OF-44-8 45	0	0	Suburban Residential Suburban Residential	Closed Pip HDPE Closed Pip RCP	Circular 2 Single 12 Circular 2 Single 24	No No Partially No	No No		
2021-03-08 12:55:27 PM STEPHANIE CARLISLE OF-44-9	Outfall - OF-44-9 39	0	0	Suburban Residential	Closed Pip RCP	Elliptical 2 Single 12	No No	No		
2021-03-08 1:11:35 PM STEPHANIE CARLISLE 0F-45-10 2021-03-09 8:09:22 AM STEPHANIE CARLISLE 0F-45-9	Outfall - OF-45-10 39 Outfall - OF-45-9 43	0	0	Suburban Residential Suburban Residential	Closed Pip RCP Closed Pip RCP	Circular 2 Single 12 Circular 2 Single 12	Fully Fully Partially No	No No		
2021-03-09 9:16:49 AM STEPHANIE CARLISLE OF-46-7	Outfall - OF-46-7 46	0	0	Suburban Residential	Closed Pip RCP	Circular 2 Single 15	No No	No		
2021-03-09 9:11:49 AM STEPHANIE CARLISLE OF-46-8 2021-03-10 9:00:36 AM STEPHANIE CARLISLE OF-46-9	Outfall - OF-46-8 46 Outfall - OF-46-9 46	0	0	Suburban Residential Suburban Residential	Closed Pip RCP	Circular 2 Single 12 Circular 2 Single 15	No No	No		
2021-03-10 9:00:36 AM STEPHANIE CARLISLE 0F-46-9 2021-03-11 10:30:49 AM STEPHANIE CARLISLE 0F-46-10	Outfall - OF-46-10 47	0	0	Suburban Residential Suburban Residential	Closed Pip RCP Closed Pip RCP	Circular 2 Single 15 Elliptical 2 Single 12	No No No Partially	No No		
2021-03-17 10:30:18 AM STEPHANIE CARLISLE OF-46-11	Outfall - OF-46-11 36	0	0	Suburban Residential	Closed Pip RCP	Elliptical 2 Single 16	Fully No	No		
2021-03-25 9:00:23 AM STEPHANIE CARLISLE OF-46-12 2021-03-11 10:00:13 AM STEPHANIE CARLISLE OF-47-9	Outfall - OF-46-12 60 Outfall - OF-47-9 50	0	0	Suburban Residential Suburban Residential	Closed Pip HDPE Closed Pip RCP	Circular 2 Single 12 Circular 2 Single 12	No No No No	No No		
2021-03-08 8:20:26 AM STEPHANIE CARLISLE OF-48-6	Outfall - OF-48-6 24	0	0	Suburban Residential	Closed Pip Steel	Circular 2 Single 12	No No	No		
2021-03-08 8:24:17 AM STEPHANIE CARLISLE OF-48-8 2021-03-08 8:08:36 AM STEPHANIE CARLISLE OF-48-9	Outfall - OF-48-8 24 Outfall - OF-48-9 24	0	0	Suburban Residential Suburban Residential	Closed Pip RCP Closed Pip RCP	Elliptical 2 Single 12 Elliptical 2 Single 12	No No No No	No No		
2021-03-25 2:00:16 PM STEPHANIE CARLISLE OF-50-4	Outfall - OF-50-4 50	0	0	Suburban Residential	Closed Pip RCP	Circular 2 Single 18	No No	No		
2021-01-13 12:48:50 PM STEPHANIE CARLISLE OF-51-1 2021-01-13 11:31:37 AM STEPHANIE CARLISLE OF-51-2	Outfall - OF-51-1 39 Outfall - OF-51-2 37	0	0	Suburban Residential Suburban Residential	Closed Pip CMP Closed Pip CMP	Circular 2 Single 12 Circular 2 Single 12	No No No Partially	No No		
2021-04-14 1:30:23 PM STEPHANIE CARLISLE OF-51-3	Outfall - OF-51-3 64	0	0	Commercial	Closed Pip HDPE	Circular 2 Single 12	Partially No	No		
2021-03-11 11:15:10 AM STEPHANIE CARLISLE OF-54-8 2021-01-12 8:42:55 AM STEPHANIE CARLISLE OF-55-11	Outfall - OF-54-8 50 Outfall - OF-55-11 28	0	0	Commercial   Industrial Suburban Residential	Closed Pip RCP Closed Pip RCP	Circular 2 Single 24 Circular 2 Single 12	Fully Fully No No	No No		
2021-03-08 11:05:48 PM STEPHANIE CARLISLE OF-55-12	Outfall - OF-55-12 34 Outfall - OF-55-13 55	0	0	Suburban Residential	Closed Pip HDPE	Circular 2 Single 12	No No	No		
2021-04-14 11:45:31 AM STEPHANIE CARLISLE OF-55-13 2021-03-08 11:17:50 PM STEPHANIE CARLISLE OF-55-14	Outfall - OF-55-13 55 Outfall - OF-55-14 34	0	0.02	Suburban Residential Suburban Residential	Closed Pip PVC Closed Pip RCP	Circular 2 Single 6 Elliptical 2 Single 12	No No No No	No No		
2021-03-17 1:30:00 PM STEPHANIE CARLISLE OF-55-15	Outfall - OF-55-15 45	0	0	Commercial	Closed Pip RCP	Circular 2 Single 12	Partially Partially	No		
2021-03-16 7:45:17 AM STEPHANIE CARLISLE OF-55-16 2021-01-21 11:18:33 AM STEPHANIE CARLISLE OF-57-7	Outfall - OF-55-16 17 Outfall - OF-57-7 29	0	0	Suburban Residential Suburban Residential	Closed Pip Steel Closed Pip RCP	Circular 2 Single 12 Circular 2 Single 18	No No No No	No No		
2021-03-17 1:15:44 PM STEPHANIE CARLISLE OF-57-8	Outfall - OF-57-8 45	0	0	Suburban Residential	Closed Pip RCP	Elliptical 2 Single 12	No No	No		
2021-03-17 1:00:32 PM STEPHANIE CARLISLE OF-57-9 2021-03-16 2:01:54 PM STEPHANIE CARLISLE OF-57-10	Outfall - OF-57-9 45 Outfall - OF-57-10 40	0	0	Suburban Residential Suburban Residential	Closed Pip HDPE Closed Pip RCP	Circular 2 Single 12 Circular 2 Single 12	No No No Fully	No No		
2021-04-08 11:00:45 AM STEPHANIE CARLISLE OF-57-12	Outfall - OF-57-12 55	0	0	Suburban Residential	Closed Pip RCP	Circular 2 Single 12	Fully No	No		
2021-03-16 7:47:29 PM STEPHANIE CARLISLE OF-58-20 2021-03-16 12:45:39 PM STEPHANIE CARLISLE OF-59-12	Outfall - OF-58-20 17 Outfall - OF-59-12 39	0	0	Suburban Residential Institutional	Closed Pip Steel Closed Pip Steel	Circular 2 Single 12 Circular 2 Single 12	Partially No No Fully	No No		
2021-03-17 10:30:36 AM STEPHANIE CARLISLE OF-60-4	Outfall - OF-60-4 39	0	0	Suburban Residential	Closed Pip RCP	Circular 2 Single 12	Partially Partially	No		
2021-04-12 8:07:17 AM STEPHANIE CARLISLE OF-60-5 2021-03-17 10:10:33 AM STEPHANIE CARLISLE OF-60-6	Outfall - OF-60-5 46 Outfall - OF-60-6 36	0.01	0.01	Suburban Residential Suburban Residential	Closed Pip RCP Closed Pip Steel	Circular 2 Single 15 Circular 2 Single 12	Fully Fully No No	No No		
2021-01-13 10:58:48 AM STEPHANIE CARLISLE OF-61-4	Outfall - OF-61-4 37	0	0	Suburban Residential	Closed Pip RCP	Circular 2 Single 24	No Partially	No		
2021-01-13 11:16:14 AM STEPHANIE CARLISLE OF-61-5 2021-04-12 1:35:19 PM STEPHANIE CARLISLE OF-61-6	Outfall - OF-61-5 37 Outfall - OF-61-6 52	0	0.01	Suburban Residential Commercial   Suburban Residential	Closed Pip RCP Closed Pip RCP	Circular 2 Single 12 Circular 2 Single 12	No No Partially No	No No		
2021-03-17 11:00:52 AM STEPHANIE CARLISLE OF-62-3	Outfall - OF-62-3 40	0	0	Suburban Residential	Closed Pip RCP	Elliptical 2 Single 18	No No	No		
2021-03-17 11:00:30 AM STEPHANIE CARLISLE OF-62-4 2021-03-18 10:00:23 AM STEPHANIE CARLISLE OF-62-5	Outfall - OF-62-4 40 Outfall - OF-62-5 45	0	0	Suburban Residential   Urban Residential Suburban Residential	Closed Pip RCP Closed Pip PVC	Elliptical 2 Single 12 Circular 2 Single 18	No No No No	No No		
2021-03-08 8:50:52 AM STEPHANIE CARLISLE OF-63-3	Outfall - OF-63-3 28	0	0	Industrial	Closed Pip RCP	Elliptical 2 Single 18	No No	No		
2021-03-08 9:05:45 AM STEPHANIE CARLISLE OF-63-4 2021-03-08 10:28:42 AM STEPHANIE CARLISLE OF-64-13	Outfall - OF-63-4 28 Outfall - OF-64-13 34	0	0	Industrial Industrial	Closed Pip RCP	Elliptical 2 Single 12 Circular 2 Single 24	Partially No No No	No No		
2021-03-18 2:00:25 PM STEPHANIE CARLISLE OF-64-14	Outfall - OF-64-14 45	0	0	Suburban Residential	Closed Pip RCP	Circular 2 Single 18	No No	No		
2021-04-14 11:15:40 AM STEPHANIE CARLISLE OF-64-15 2021-04-14 11:15:39 AM STEPHANIE CARLISLE OF-64-16	Outfall - OF-64-15 55 Outfall - OF-64-16 55	0	0.02	Commercial Commercial	Closed Pip HDPE	Circular 2 Single 24 Circular 2 Single 10	No No No No	No No		
2021-03-08 10:00:21 AM STEPHANIE CARLISLE OF-66-6	Outfall - OF-66-6 33	0	0.02	Suburban Residential	Closed Pip PVC	Circular 2 Single 8	No Partially	No		
2021-01-20 1:17:19 PM STEPHANIE CARLISLE 0F-66-8 2021-03-22 11:15:14 AM STEPHANIE CARLISLE 0F-70-5	Outfall - OF-66-8 38 Outfall - OF-70-5 45	0	0	Suburban Residential Suburban Residential	Closed Pip RCP	Elliptical 2 Single 12	No Partially	No		
2021-03-22 11:15:14 AM STEPHANIE CARLISLE OF-70-5 2021-03-22 11:20:48 AM STEPHANIE CARLISLE OF-70-6	Outfall - OF-70-6 45	0	0	Suburban Residential Suburban Residential	Closed Pip RCP Closed Pip RCP	Elliptical 2 Single 12 Elliptical 2 Single 12	No Partially No No	No No		
2021-03-22 11:15:25 AM STEPHANIE CARLISLE 0F-70-7 2021-04-13 4:45:05 PM STEPHANIE CARLISLE 0F-70-8	Outfall - OF-70-7 45	0	0	Suburban Residential Suburban Residential	Closed Pip RCP	Elliptical 2 Single 12	No No	No		
2021-04-13 4:45:05 PM STEPHANIE CARLISLE OF-70-8 2021-01-14 8:54:45 AM STEPHANIE CARLISLE OF-70-9	Outfall - OF-70-8 53 Outfall - OF-70-9 35	0.02	0.02	Suburban Residential Suburban Residential	Closed Pip RCP Closed Pip RCP	Circular 2 Single 18 Elliptical 2 Single 12	No Fully No No	No No		
2021-03-08 9:20:13 AM STEPHANIE CARLISLE 0F-73-1 2021-03-09 9:00:30 AM STEPHANIE CARLISLE 0F-28-10	Outfall - OF-73-1 28 Outfall - OF-28-10 47	0	0	Industrial	Closed Pip RCP	Elliptical 2 Single 24	Partially No	No No		
ZUZ 1-U3-U9 9:UU:3U AM STEPHANIE CARLISLE OF-28-10	outraii - OF-28-10 47	U	0	Suburban Residential	Closed Pip PVC	Circular 2 Single 6	No No	No		

No No							Unlikely Unlikely		Investigators: Nolan, 55.5 Investigators: Nolan, 57	6.27 5.7	244 474	1.2 0.2	0.25	0	0	<10 50	0
No							Unlikely		Investigators: Nolan, 56.6	5.25	560	0.3	0.25	0	0	5 <10	0 0.02
Yes No	Yes	Corrosion broken/separated pipe					Unlikely Unlikely		Investigators: Nolan, Garrett.	6.62	478	0.2	0.25	0	0	<10	0.02
No No							Unlikely Unlikely		Investigators: Nolan, Zach. Investigators: Nolan, 57	5.5	186	0	0.25	0	0	<10	0.03
No							Unlikely	extremely overgrows	n investigators: Nolan, Zach.	3.3	100		0.23			-10	0.03
No No							Unlikely Unlikely	extremely overgrown	n Investigators: Nolan and Zach. Investigators: Nolan and Garret	t.							
No							Unlikely Unlikely		investigators: Nolan and Garret	t							
No No							Unlikely		investigators: nolan. Investigators: Nolan and Zach								
No No							Unlikely Unlikely		Investigators: Nolan, Garrett, Za Investigators: Nolan and Garret								
No							Unlikely		Investigators: Nolan and Garret	t.							
No No							Unlikely Unlikely		Investigators: Nolan and Garret Investigators: Nolan and Garret								
No							Unlikely		Investigators: Nolan and Garret	t.							
No No							Unlikely Unlikely		Investigators: Nolan and Garret Investigators: Nolan and Garret	t. t.							
No							Unlikely		Investigators: Nolan and Garret	t.							
No No							Unlikely Unlikely		Investigators: Nolan and Garret Investigators: Nolan and Garret	t. t.							
No No							Unlikely Unlikely		Investigator: Nolan Investigators: Nolan and Garret								
No							Unlikely		Investigators: Zach and Garrett.								
No No							Unlikely Unlikely		Investigators: Nolan, Zach, Garn Investigators: Nolan, Zach, Garn								
No							Unlikely		Investigators: Nolan, Zach, Garri	ett							
Yes No			Yes	Inhibited			Unlikely Unlikely		Investigators: Nolan, Zach, Garn Investigators: Nolan, Zach, Garn	ett							
Yes					Yes	Oil Sheen	Unlikely		Investigators: Nolan, Zach, Garri	ett							
No No							Unlikely Unlikely		Investigators: Zach and Dave M. Investigators: Zach and Dave M.								
No							Unlikely		Investigators: Nolan and Garret								
No No							Unlikely Unlikely		Investigators: Nolan and Garret Investigators: Nolan and Garret	t. t.							
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# Attachment 3 Catchment Investigations





# Stable Way 12-9

# Talked to Curtis 4/20/2021

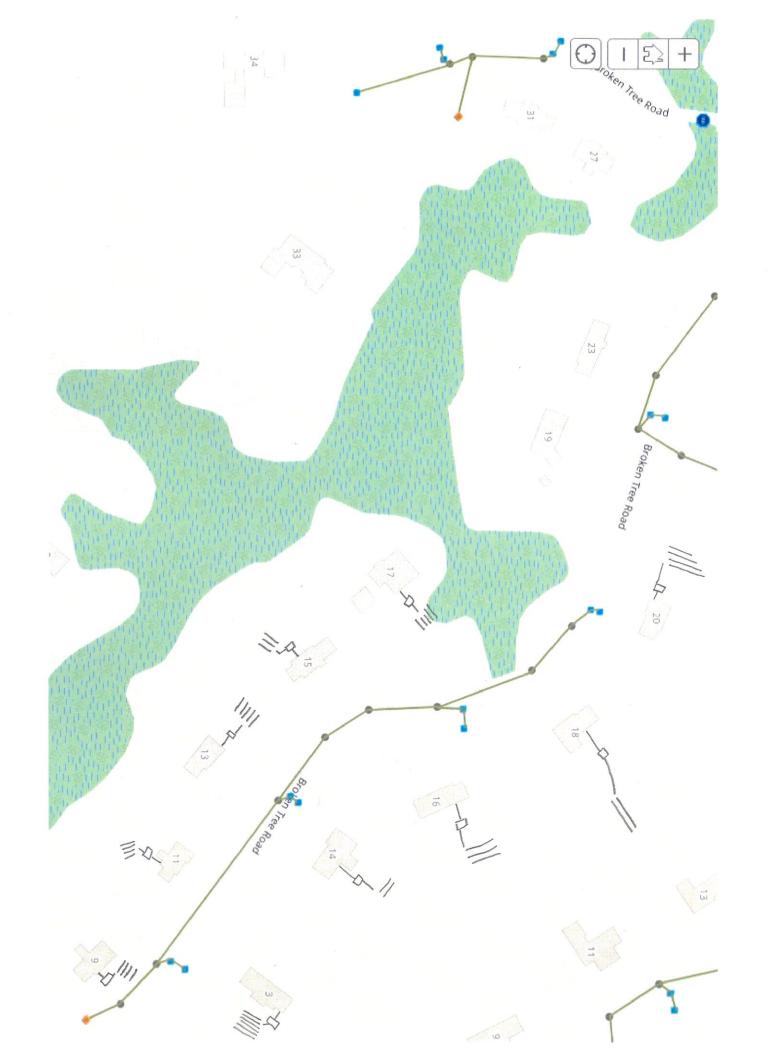
- No infiltration on Stable sewer line
- 5 Stable new sewer tap
- All other properties factory when sewer was installed

# Talked with Julie 4/20/2021

- Bill all addresses 18,17,16,15,14,13,12,11,10,9,8,7,5,4,3,2,1 Stable Way for sewer

No files under Board of Health for any past or present septic in this area of question

Talked with Curtis 4/22/2021→ follow up drain line cameraing when time permits



#### 20 Broken Tree- 4 Bedroom

- Passed Title 5 2018
- Laundry included
- Septic tank, D bx, soil absorption system (leaching trenches 4 40')
- Last pumped 2 years previously
- Built 12-8-1998
- Pumped 2004,2006,2020

## 18 Broken Tree- 4 Bedroom

- Passed Title 5 2007
- Garbage disposal and laundry connected
- Septic tank, D box, soil absorption system (leaching trenches 2 66')
- Built 2-11-1998
- Pumped 2007,2012,2013,2017,2019

#### 17 Broken Tree

- Proposed septic system plan
- Septic tank (10.4' x 5.6'), D box, 3 lines 36" x 40',
- NO RECORD OF PUMP OUTS

### 16 Broken Tree- 4 Bedroom

- Passed Title 5 2012
- Laundry connected and sump pump
- System last pumped 2011
- Septic tank (1500 gallon), D box, soil absorption system (leaching trenches 3 40')
- Installed 1998
- D box in fair condition- signs of deterioration
- Installed 1997
- Pumped 2001,2005,2005,2014,2019

#### 15 Broken Tree- 4 Bedroom

- Passed Title 5 2012
- Septic tank (1500 gallon), D box, soil absorption system (leaching trenches 3 40')
- Laundry connected
- Asbuilt 8/28/1998
- Suggested to be pumped every 1-2 years
- Interior of D box refaced with hydraulic cement
- Pumped 2001,2006,2012,2017

## 14 Broken Tree

- Land survey only
- Pumped 2004

## 13 Broken Tree

- Proposed sewage disposal system only
- Pumped 2005,2007,2012,2015,2017,2020

# 11 Broken Tree

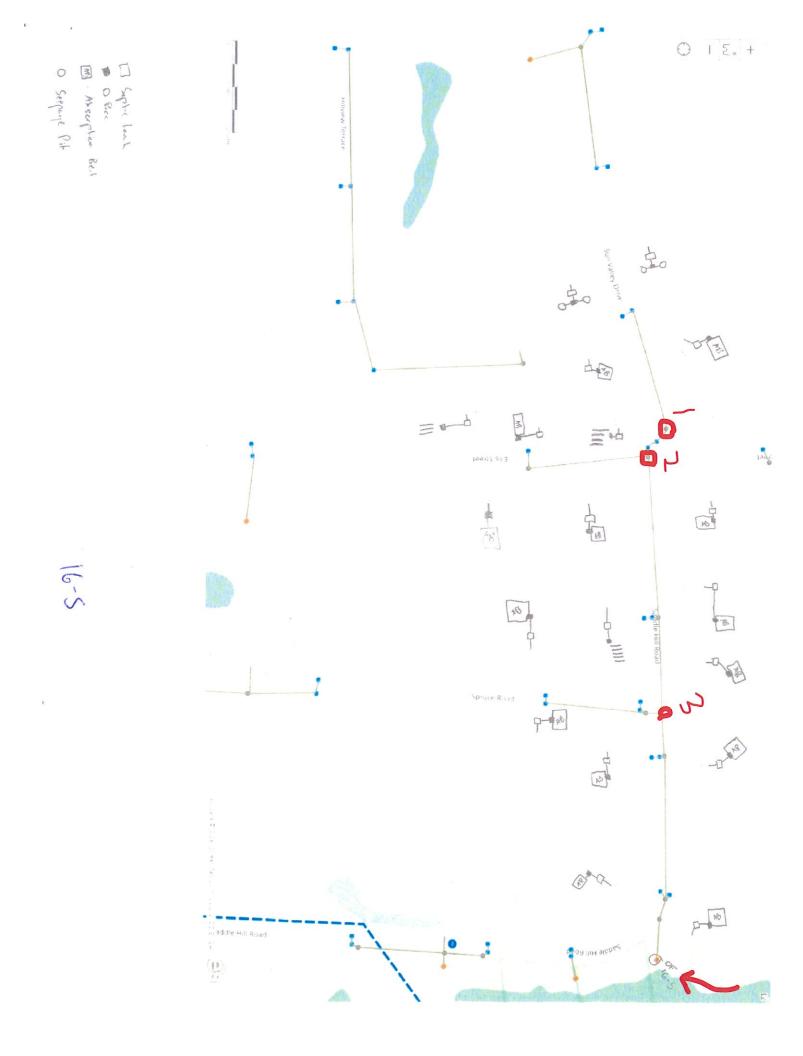
- Proposed sewage disposal system only
- Pumped 2004

# 9 Broken Tree

- Proposed sewage disposal system only
- Pumped 2018,2017,2007x2,2005x2,2002

# 3 Hickory Dr

- Proposed sewage disposal system only
- Pumped 2002,2005,2012,2018,2021



- 13 Saddle Hill
- Septic tank (1500 gallon), D Box (5 outlets), absorption bed (18x40)
  - o Installed 1976
- COC-2018
- New tank, D Box, SAS
- Pump out
- 1997,2002,2004,2013,2018

### 18 Saddle Hill

- Septic tank (1500), D Box (5 outlets), absorption bed (40x18)
  - o Installed 1978
- Laundry connected
- Conditionally pass Title V→2016
  - o D Box is leaking and walls are falling apart
  - Recommend yearly service and install filter on outlet to prevent carry over getting out D Box→2016
  - D Box- level is low due to leakage (box has extensive deterioration and needs to be replaced)
- Pump out
- 2000,2003,2005,2007,2018

#### 20 Saddle Hill

- Septic tank (1000 gallon), D Box (5 outlets), absorption bed (30x24)
  - o Installed 1974
  - o Laundry connected
- Conditionally passes → 2018
  - o D Box extensive deterioration, must be replaced
    - Replace 4 outlet D Box, install riser on D Box
  - o Recommend pumping annually
- 1995?,1998,2001,2002,2003,2004,2005,2006,2013,2015,2018

## 21 Saddle Hill

- Septic tank (1000 gallon), D Box (5 outlets), leaching trenches (5)→18x45
  - o Installed 1973
- System redo 2020
  - Septic tank (1500 gallon), D Box (5 outlets), SAS (5 leaching trenches)
  - Abandonment of old septic tank
- Pump out
- **2014**

## 22 Saddle Hill

- Septic tank (1000 gallon), D Box (5 outlets), absorption bed (33x24)
  - o Installed 1974
- Pump out

- New system installed 2016
- Pump out
- 1997,2005,2011,2014,2016,2020

# 27 Ellis

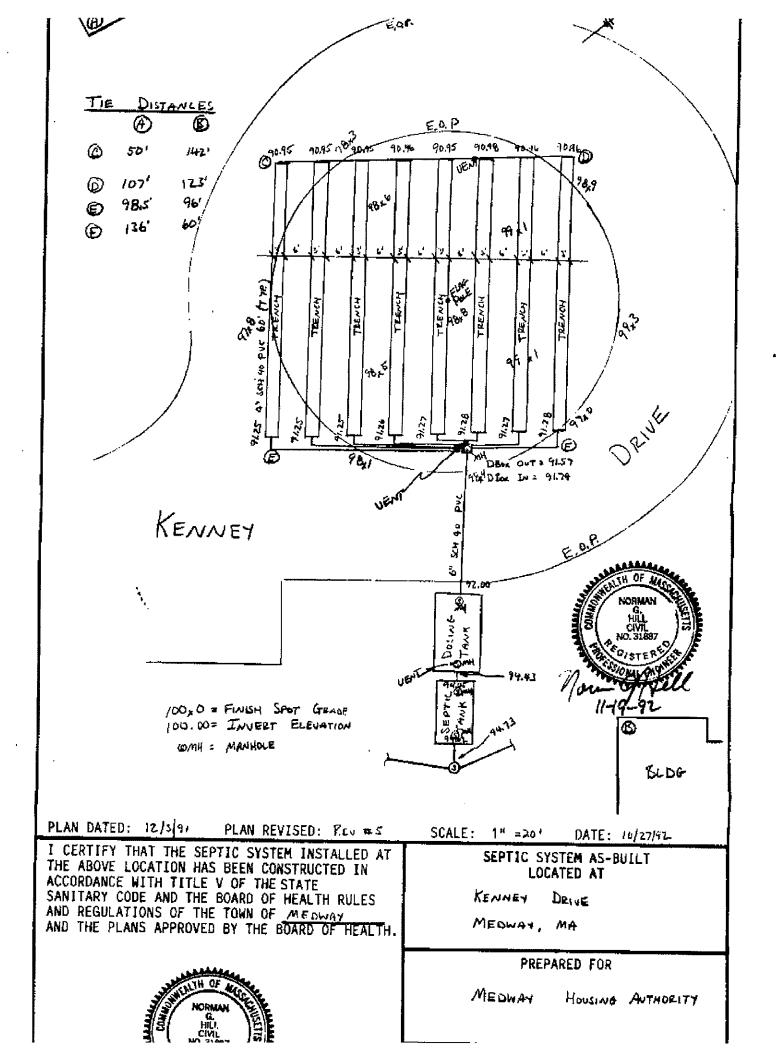
- Septic tank, D-Box, Soil absorption system (leaching trenches 3x56')
- Installed 1978
- Failed Title 5 2012
  - o Backup of sewage into system because of overload or clogged field
  - o D-Box above outlet due to same as above
  - o Last pumped 1987
- New system install 2012
  - Septic tank(1500 gallon), D Box, leaching field (30x25)
- Pump out
- **2012,2015,2020**

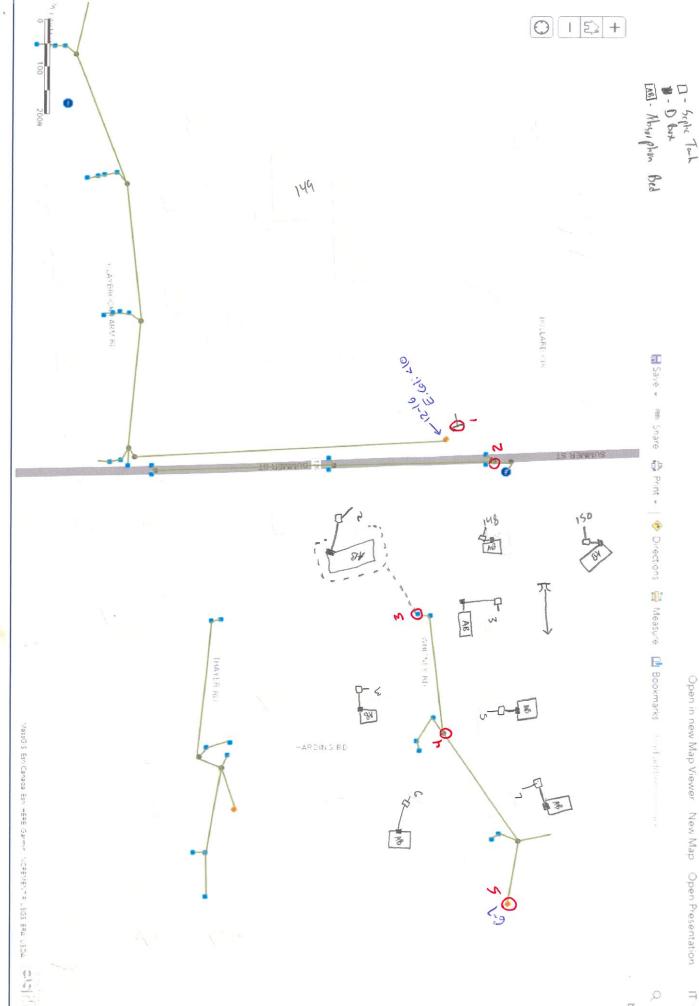
## 28 Ellis

- Septic tank, D Box, leaching trenches (3x50')

() [1 E) Map data © OpenStreet/Map contributors. CC-BYSA 11:16 AM 6/24/2021

Septe As Built 1992 Pump Out 2020





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#### Outfall 6-7

- 3 Harding Rd
  - o Installed 1978
  - Septic tank (1000 gallon), D-Box, leaching field (18x34)
  - o Passed inspection 1994
  - o Conditionally passes title 5-2001
    - D-Box is caving in and rotten
  - o Pump out
    - 6/1/2001,6/7/2001,2017,2018
- 148 Summer St
  - o Built in 1979
  - o Pass Title 5 2016
  - Failed title 5 2019→overloaded or clogged SAS,D-Box heavy solid carry over, high liquid level with water return
  - o Repair to system 2019
    - 1500 galloon septic tank,1000 gallon pump tank, D-Box, absorption bed(2 rows of 10)
  - o New Septic as built-2019
- 149 Summer St
  - o Pump out
    - **2013,2014,2015,2016,2017,2020**
- 150 Summer
  - o Suggested failure of Septic-2000
    - Breakout of effluent to surface of ground
    - Old SAS to be removed and replaced
  - o 2019 Repair System- C.O.C
  - o As Built 2020
    - New system install
    - (1500 gallon) septic tank, D-Box, leaching field (4x10)
- 2 Whitney
  - o System repair plans 1989
    - Old D-Box and leaching bed to be abandoned
  - o Pump out
    - 2018- Noted Heavy Solids
- 4 Whitney
  - o Pump out
    - 1996x2, 1998
- 5 Whitney
  - Sewage disposal plan 1979
    - Septic tank (1000 gallon), D-Box, Absorption bed (18x34)
  - As bult pan 1981
  - o Pump out

- 1996,1998x2
- 6 Whitney
  - o Sewage disposal plan 1979
    - Septic tank(1000), D-Box, Absorption bed (18x34)
  - o As built plan 1981
  - o Pump Out
    - **1999,2001,2003,2005,2018,2020**
- 7 Whitney
  - o As built plan 2004
    - Septic tank, D-Box, Leaching field

# Attachment 4 IDDE Investigations

## Illicit Discharge Detection and Elimination Report from Dry Weather Sampling Results Year 3

Outfall ID	Status
6-7	Open
12-9	Closed
12-12	Closed
16-2	Open
16-5	Open
16-8	Open
50-3	Open

## Outfall 6-7 on Whitney Road

Sampled on April 6, 2021 and results show E.coli at 1130 cfu. First, DPW looked to see if the area has sewer or septic. This area has septic. Potential contributors were identified on Whitney Road, Harding Street, Claybrook Farm Road, Summer Street, and Rising Star Horse farm on Summer Street. On April 13, 2021, sampled Outfall 12-16 to rule out Claybrook Farm Road area as a potential contributor. Sample results were <10 cfu. DPW looked through septic plans for 3, Harding Road, 148 Summer Street, 149 Summer Street, 150 Summer Street, 2 Whitney Road, 4 Whitney Road, 5 Whitney Road, 6 Whitney Road, and 7 Whitney Road.

Plan to investigate next likely contributors: 2 Whitney Road last pump out record from 2018 with a note of heavy solids. 4 Whitney Road last pump out record from 1998. 5 Whitney Road last pump out in 1998 twice. 7 Whitney Road no record of pump outs. Investigate the Rising Star Horse Farm as a potential contributor.

- Send IDDE letter to the contributing areas.
- Send Septic System maintenance brochure
- Retest Outfall 6-7, and test at two manholes on Whitney Road.
- 5 Whitney may have a subdrain around the septic system that is directly connected to the catch basin
- Inspect catch basins looking for sediment, pet waste bags, etc.
- Test at Culvert 6-2 across Summer Street

On 7/27/2021 retested at the outfall. Results showed E.coli 130 cfu. Tested at CB1 (subdrain) results showed E.coli 15 cfu. Tested at the Farm outlet results were E.coli 420 cfu. Tested at MH1 results were E.coli 290 cfu. I think one of the manholes was dry so we couldn't sample there. Nothing was evident in the catch basins like pet waste etc. We think it is likely coming from the horse farm.

On 9/13/2021 mailed potential illicit discharge contributor letter and heard back from resident on 9/17/2021. She has her horse manure taken away every other week and doesn't know what else she can do to keep the area clean. She met with Board of Health agent in the past and was told that her farm was one of the cleanest the agent has ever seen. DPW will continue to investigate this area.

### Outfall 12-9 on Stable Way

Sampled on April 6, 2021 and results show E.coli at 1630 cfu. Looked for sewer or septic and there is sewer in the area. Recent sewer line camera investigation showed no signs of cross connections between the sewer and storm drain lines. Also, there were no signs of cracks in the sewer line, no signs of infiltration. New development built in 2002. The results from the outfall catchment area delineation tool show that the area up to 22 Stable Way contributes stormwater to this outfall. \*outfall 12-12 has small drainage area according to the tool but it tested for e.coli at 170 cfu.

- Send IDDE letters to 1 22 Stable Way
- Retest Outfall 12-9 and at the 6 manholes

- Check catch basins for debris (sediments, pet waste bags)
- Camera the storm drain line with the Water Dept

On 7/27/2021 Nolan retested the outfall. E.coli results were 10 cfu. Tested at the next manhole with flow and results were <10cfu. Source undetermined.

# Outfall 12-12 on Stable Way

Sampled on April 6, 2021 and results show E.coli at 170 cfu. This is within the limits as long as the average of 5 samples are less than 125 cfu. The adjacent Outfall-12-9 exceeds the limit.

- Retest Outfall
- Investigate the two contributing catch basins
- Camera the storm drain line

On 7/27/2021 Nolan retested the outfall. E.coli results were 10 cfu. Tested at the next manhole with flow and results were <10cfu. Source undetermined.

### Outfall 16-2 on Broken Tree Road

Sampled on March 22, 2021: E.coli 310 cfu Resampled on April 6, 2021: E.coli 60 cfu Sampled upstream manholes on April 6, 2021

> MH1: E.coli 140 cfu MH2: E.coli 10 cfu

- Based on sampling results from April 6, the issue is likely near 9 Broken Tree Road.
- Potentially selling the house 9 Broken Tree. They'll need a Title 5. Look for plans from BOH.
- Retest outfall

Resident is selling house and failed the Title V. We will retest once the septic system is replaced and determine if that was the cause.

### Outfall 16-5 on Saddle Hill Road

Sampled on April 6,2021 and results show E.coli at 280 cfu. Contributing area is on septic. Hill View Terrance, Sun Valley Drive, Ellis Street, Spruce Road, and Saddle Hill Road. According to the delineations, there are 23 acres that drain to this outfall.

- Camera the drain line between Hill View Terrace & Sun Valley Road across to Saddle Hill and confirm connection
- Send IDDE letters to residents in contributing area
- Send septic system maintenance brochure
- Retest outfall and key junction manholes
- May need septic plans and pumps for 24,25, 26 Ellis Street
- May need septic plans and pumps for: 4,6,7,8,9,10,12 Sun Valley Drive
- May need septic plans and pumps for: 17,19,21 Spruce Road

On 7/27/2021 retested outfall and results showed 30 cfu. Upstream at MH1 was 20 cfu, MH2 was 130 cfu (at the corner of Ellis Street), and MH3 was 260 cfu. Letters need to be sent to the above addresses. May need more sampling.

9/13/2021 mailed potential illicit discharge detected letter to residents and included the septic system maintenance brochure. Several residents called the DPW to learn more and we have been educating people about the stormwater standards and sampling as well as ways they can help mitigate their impacts (i.e. make sure the septic system is properly maintained, pet waste is picked up and disposed of properly). We also took this time to ask people to use phosphate free

fertilizers and/or test their soils before applying fertilizers because the excess nutrients cause the blue-green algae blooms like the ones we've been seeing in our local lakes and ponds.

## Outfall 16-8 on Saddle Hill Road

Sampled on April 12, 2021 and results showed detergents at 1.0 mg/L. Area has septic. Drainage area 6 acres including 18, 20, 22 Spruce Road and 13, 11 Saddle Hill Road.

Retest

# Outfall 50-3 on Kenney Drive

Sampled on April 8, 2021 and results showed >3000 cfu. Contributing area is Kenney Drive and 2 catch basins on Holliston Street. Area was converted from septic to sewer in  $^{2}$ 015. The old tank was abandoned and left unpumped. Salinity is high (0.9ppt), conductivity is high (1,997 $\mu$ S/cm) temperature was warmer than other outfalls by comparison (63F)

- Send IDDE letter to Housing Authority
- Retest outfall and key junction manholes

On 7/27/2021 retested outfall and results show 80 cfu. CB1 was 150 cfu (parking lot) CB2 was 70 cfu (grass) and MH1 was 20 cfu. Source still undetermined.

		Water									
		Temperature		Conductivity	Salinity	Detergent	Chlorine	Ammonia	E. Coli	Phosphorus	
Date	Asset Tag	(F)	рН	(ps/cm)	(ppt)	(mg/L)	(mg/L)	(mg/L)	(MPN/100mL)	(mg/L)	Notes
2021-04-06 11:10:41 AM	OF-12-12	56	5.9	698	.40	.25	0	0	170	0	pH, E.coli
2021-04-06 11:10:14 AM	OF-12-9	58	5.97	787	.4	.25	0	0	1630	0	pH, E.coli
2021-04-12 10:48:53 AM	OF-13-1	50	5.83	641	0.3	0.5	0	0	10	0.29	pH, detergent
2021-03-22 9:40:52 AM	OF-16-2	40.1	7.09	300	.10	.25	0	0	310	.04	E.coli
2021-04-06 1:40:01 PM	OF-16-5	51	676	802	.30	.25	0	0	280	.02	E.coli
2021-04-12 1:00:45 PM	OF-16-8	53	6.15	438	0.2	1	0	0	20	0.02	detergent
2021-01-20 11:30:50 AM	OF-26-4	41.36	6.78	522	.2	1	0	.25	52	.02	detergent
2021-01-20 11:35:55 AM	OF-26-5	43.52	6.93	763	.30	.50	0	0	<10	<.02	detergent
2021-04-06 9:30:16 AM	OF-28-1	49.8	6.31	561	.2	2.0	0	0	<10	.32	detergent
2021-01-20 1:15:45 PM	OF-28-4	44.6	6.3	349	.2	.75	0	.25	<10	<.02	detergent
2021-01-20 9:00:34 AM	OF-34-3	36.86	8.03	364	.1	.75	0	0	<10	<.02	detergent
2021-01-20 9:19:31 AM	OF-36-5	38.48	6.22	60.3	0	.50	0	0	<10	0.03	detergent
2021-04-06 8:30:12 AM	OF-37-3	49	6.9	598	.30	.75	0	.25	<10	.03	detergent
2021-01-20 9:30:41 AM	OF-45-2	39.2	6.72	137.5	0	.75	0	0	<10	.18	detergent
2021-01-20 9:45:50 AM	OF-45-7	43.34	6.32	789	.4	1.5	0	0	<10	.04	detergent
2021-04-08 1:00:30 PM	OF-50-3	63	6.28	1997	0.9	0	0	0	>3000	0.21	salinity, E.coli
2021-04-13 10:10:02 AM	OF-59-4	53	6.58	1251	0.6	0.5	0	0	<5	0.03	salinity, detergent
2021-04-06 11:45:58 AM	OF-6-7	52	6.09	1170	.50	.25	0	0	1130	.11	E.coli