

**3/25/2025**  
**MS4 General Permit**  
**Town of Orange 2024 Annual Report**  
**Existing MS4 Permittee**  
**Permit Number GSM 000036**  
**[January 1, 2024 – December 31, 2024]**

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This report documents The Town of Orange's efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 1, 2024 to December 31, 2024.

**Part I: Summary of Minimum Control Measure Activities**

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

**1.1 BMP Summary**

BMP	Status	Activities in current reporting period (if needed, more space available after this table)	Measurable goal	Department / Person Responsible		Date completed or projected completion date	Additional details
1-1 Implement public education and outreach	Ongoing	Information for residents posted on Town Website	Implement public education program BMPs and include these BMPs in the annual report	Public Works		2017	Brochure for residents on town Public Works Dept. website and links to DEEP and EPA websites
1-2 Address education/ outreach for pollutants of concern*	Ongoing	Distribute information on how to prevent and reduce source of pollution from reaching waterways	Address education and outreach for pollutants of concern	Public Works		2018	Post information in Town Buildings and Public Works website

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

The Town will post messages the Town of Orange website to keep residents informed on ways to reduce and prevent pollution from catch basins that flow to waterways.

Signs posted on Town property to pick up after pets and bags are available. Signs are also posted on Town property to discourage the feeding of water fowl.

**1.3 Details of activities implemented to educate the community on stormwater**

Program Element/Activity	Audience (and number of people reached)	Topic(s) covered	Pollutant of Concern addressed (if applicable)	Responsible dept. or partner org.
Brochures available in Town buildings	Residents (3,000-4,000)	Impact of fertilizer, pet waste and motor oil on stormwater that flows to the Long Island Sound	Bacteria, Nitrogen and Phosphorus	Public Works

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

### 2.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible		Date completed or projected completion date	Additional details
2-1 Final Stormwater Management Plan publicly available	Completed	Prepare, make available for review to the public, and file the Town's Stormwater Management Plan	Comply with public notice requirements for the SWMP	Public Works		2017	Involve the community in implementing the Town's Stormwater Management Plan
2-2 Comply with public notice requirements for Annual Reports	Completed	Public notice on Town website that annual report is available for review and comment	Comply with public notice requirements for the Annual reports	Public Works		3/25/2025	

Extra space for describing above BMP activities, if needed:

BMP	

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

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### 2.3 Public Involvement/Participation reporting metrics

Metrics	Implemented	Date	Posted
Availability of the Stormwater Management Plan to public	Y	2017	Town Clerk's Office and Town website <a href="http://www.orange-ct.gov">www.orange-ct.gov</a>
Availability of Annual Report announced to public	Y	3/25/2025	Town Clerk's Office and Town website <a href="http://www.orange-ct.gov">www.orange-ct.gov</a>

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

#### 3.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Date completed or projected completion date	Additional details
3-1 Develop written IDDE program	In Progress	The Town of Orange has drafted a written IDDE program using the CT IDDE program template	Develop written plan of IDDE program	Public Works, Zoning, Inlands Wetlands, Health	2018 (Draft) 06/30/26 (Projected)	Coordinate with departments to develop written IDDE program
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas	Completed	The Town of Orange has updated storm water information on the GIS	Develop list and maps of all MS4 stormwater outfalls in priority areas	Public Works	2019	Stormwater information on the GIS includes outfalls, catch basins, stormwater pipe, and culverts. Storm water mapping update in progress-completion expected by 7-1-21.
3-3 Implement citizen reporting program	Completed	Posting information on the Town website for resident to report suspected illicit discharges	Develop citizen reporting program	Public Works	2017	
3-4 Establish legal authority to prohibit illicit discharges	Completed	The Town adopted an ordinance to establish legal authority to prohibit illicit discharges	Establish legal authority to prohibit illicit discharges	Public Works, Town Attorney	2018	IDDE ordinance can be found in chapter 384 of the Town of Orange Town Code <a href="https://www.ecode360.com/33501160">https://www.ecode360.com/33501160</a>

3-5 Develop record keeping system for IDDE tracking	Completed	Developed a record keeping system for IDDE Tracking	Develop record keeping system for IDDE tracking	Public Works		2017	Illicit discharges that are reported in person, or by calling the Town, or online on the Town website are tracked
3-6 Address IDDE in areas with pollutants of concern	Ongoing			Public Works		Ongoing	During the summer, the Health Dept. tests water in rivers and streams for bacteria levels and checks a fluorometer with filter installed in the Wepawaug River for detergents. If levels of bacteria are high, they investigate to determine where the discharge is originating from and take actions to correct it

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

BMP	

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

A link to the IDDE ordinance is posted on the Public Works webpage and a link is listed in the Annual Report. A link will be provided for the final written IDDE program when completed. The Town will update the IDDE program and ordinance as needed throughout the permit term.

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

Date of Report	Location / suspected source	Response taken
3/12/24	518 Meetinghouse Circle	Investigate, send letter regarding erosion
3/15/2024	865 Shagbark Drive	Investigate, send letter regarding pumped discharge

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

Location (Lat long/ street crossing /address and receiving water)	Date and duration of occurrence	Discharge to MS4 or surface water	Estimated volume discharged	Known or suspected cause / Responsible party	Corrective measures planned and completed (include dates)	Sampling data (if applicable)

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

Reports of suspected illicit discharges are investigated and tracked by Public Works with the help of Zoning, Inlands Wetlands, and the Town Sanitarian. They will be involved in follow up and inspection to make sure corrective measures have been completed.

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

Location and nature of structure with failing septic systems	Actions taken to respond to and address the failures	Impacted waterbody or watershed, if known
See attached list of septic system investigations and permits in 2024 from the Orange Health Department		

### 3.7 IDDE reporting metrics

Metrics	
Estimated or actual number of MS4 outfalls	603
Estimated or actual number of interconnections	unknown
Outfall mapping complete	100%
Interconnection mapping complete	100%
System-wide mapping complete (detailed MS4 infrastructure)	100%
Outfall assessment and priority ranking	100%
Dry weather screening of all High and Low priority outfalls complete	100%
Catchment investigations complete	603
Estimated percentage of MS4 catchment area investigated	100%

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

The highway dept. crew chief annually reviews IDDE prevention and detection controls with the highway dept. staff. BMP's regarding the Public Works Garage are covered, ie. outdoor storage of materials that need to be covered and contained, vehicles are to be maintained and washed inside, and a spill kit needs to be at the fueling island. When they are on the road they must stay alert and look for trash and debris to pick up, storm drains and catch basins must be kept free of debris and cleaned regularly, and any non- storm water discharges must be reported and investigated.

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

### 4.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible		Date completed or projected completion date	Additional details
4-1 Implement, upgrade, and enforce land use regulations or other legal authority to meet requirements of MS4 general permit	Ongoing		Implement, upgrade and enforce land use regulations to meeting MS4 permit requirements	Public Works, Zoning, Inlands Wetlands, Town Attorney		Ongoing	Section 381-5 of the Orange Wetlands Regulations and 383-3 of the Orange Zoning Regulations provide Enforcement Authority. Article XXI covers Soil Erosion and Sediment Control.
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval	Completed	Signature & approval from Municipal Dept. Heads are required for all Site Plan applications	Develop/implement plan for interdepartmental coordination in site plan review approval	Public Works, Zoning, Inlands Wetlands		2017	In the Orange Town Code, site plan review is covered in Chapter 381 Inland Wetlands & Watercourse Regulations Chapter 382 Subdivision Regulations Chapter 383 Zoning Regulations
4-3 Review site plans for stormwater quality concerns	Ongoing	Drainage review for all projects require review & signature of the Public Works, Wetlands Enforcement Officer & Zoning Enforcement Officer	Review site plans for stormwater quality concerns	Public Works, Zoning, Inland Wetlands		Ongoing	
4-4 Conduct site inspections	Ongoing	Inspections of all drainage is conducted by the Public Works, Wetlands Enforcement Officer & Zoning Enforcement Officer	Conduct site inspections	Public Works, Zoning, Inland Wetlands		Ongoing	Inspections are covered Under 381-62 and 381-63 and 383-9 of the Orange Town Code.

4-5 Implement procedure to allow public comment on site development	Completed	Public Comment is permitted for all Site Plan Applications before the Orange Town Plan & Zoning Commission	Implement procedures to allow public comment on site development	Planning & Zoning, Inlands Wetland		2017	All Inland Wetlands and Planning & Zoning Meetings are open to the public. Dates & times are posted in Town Hall and on the Town Website <a href="http://www.orange-ct.gov">www.orange-ct.gov</a>
4-6 Implement procedure to notify developers about DEEP construction stormwater permit	Completed	No formal procedure but we are aware of when DEEP permits are required and direct the developer to obtain the permit(s)	Implement procedure to notify developers about DEEP construction stormwater permit	Public Works, Zoning, Inland Wetlands		2017	

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

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

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

### 5.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible		Date completed or projected completion date	Additional details
5-1 Establish and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning	In progress		Update legal authority guidelines regarding LID and runoff reduction in site development planning.	Public Works, Zoning, Inland Wetlands, Town Attorney		6/30/26(Projected)	
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects	Ongoing		Enforce LID/runoff reduction requirements for development and redevelopment projects	Public Works, Zoning, Inland Wetlands		Ongoing	
5-3 Identify retention and detention ponds in priority areas	Completed		Identify retention and detention ponds in priority areas	Public Works, Zoning, Inland Wetlands		2019	
5-4 Implement long-term maintenance plan for stormwater basins and treatment structures	Ongoing		Implement long-term maintenance plan for stormwater basins and treatment structures	Public Works, Zoning, Inland Wetlands		Ongoing	Zoning, Wetlands, and Subdivision approvals provide for stormwater basin and other treatment structure maintenance plans.

5-5 DCIA mapping	Completed		Complete DCIA Mapping	Public Works		3/11/22	
5-6 Address post-construction issues in areas with pollutants of concern	Ongoing		Address post-construction issues in areas with pollutants of concern	Public Works, Zoning, Inland Wetlands		Ongoing	Inland Wetlands Officer, Zoning Officer & Public Works monitor post construction/pollutant concerns.

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

BMP	

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

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

Metrics	
Baseline (Calculations Revised 2022) Directly Connected Impervious Area (DCIA)	338.2 acres
DCIA disconnected (redevelopment plus retrofits)	0 acres in 2024
Retrofits completed	0
DCIA disconnected	0% in 2024
Estimated cost of retrofits	N/A
Detention or retention ponds identified	59 total

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

Baseline DCIA was revised in 2022 using the Method 2 equations, as described on the UCONN CLEAR MS4 website, and impervious coverage per drainage basin from the GIS mapping on the UCONN CLEAR MS4 website.

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

### 6.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible		Date completed or projected completion date	Additional details
6-1 Develop/implement formal employee training program	Ongoing	Annually review with employees protocol and responsibilities for the proper handling of materials and spills and identifying and reporting illicit discharges	Develop/implement formal employee training program	Public Works		Ongoing	
6-2 Implement MS4 property and operations maintenance	Ongoing	Town property maintenance includes proper storage of chemicals and fertilizers, signs posted on Town property to pick up after pets and bags are available, signs posted on Town property to discourage the feeding of water fowl, Trash and recycling receptacles are located on Town property	Implement MS4 property and operations maintenance	Public Works		Ongoing	Grass clippings are not accepted at the Transfer Station but residents may bring leaves free of charge, the Town also opens the Transfer Station on Sundays in November for leaf composting
6-3 Implement coordination with interconnected MS4s	In Progress		Implement coordination with interconnected MS4s	Public Works		6/30/26 (Projected)	
6-4 Develop/implement program to control other sources of pollutants to the MS4	Not Started		Develop/Implement program to control other sources of pollutants to MS4	Public Works		Unknown	

6-5 Evaluate additional measures for discharges to impaired waters	Not Started		Evaluate additional measures for discharges to impaired waters	Public Works		Unknown	
6-6 Track projects that disconnect DCIA	Ongoing		Track projects that disconnect DCIA	Public Works		Ongoing	
6-7 Implement infrastructure repair/rehab program	Ongoing		Develop/Implement infrastructure repair/rehab program	Public Works		Ongoing	
6-8 Develop/implement plan to identify/prioritize retrofit projects	Ongoing		Develop/Implement plan to identify/prioritize retrofit projects	Public Works		Ongoing	
6-9 Implement retrofit projects to disconnect 2% of DCIA	Ongoing		Implement retrofit projects to disconnect 2% of DCIA	Public Works		Ongoing	
6-10 Develop/implement street sweeping program	Ongoing	Streets are swept annually	Continue street sweeping program	Public Works		Ongoing	
6-11 Develop/implement catch basin cleaning program	Ongoing	Catch basins are inspected and cleaned annually	Develop/implement catch basin cleaning program	Public Works		Ongoing	
6-12 Develop/implement snow management practices	Ongoing	The Town uses straight rock salt, no sand or liquid de-icers are used. Roads are not pretreated but done during the storm on an as needed basis.	Develop/implement snow management practices	Public Works		Ongoing	

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

<b>BMP</b>	

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

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### 6.3 Pollution Prevention/ Good Housekeeping reporting metrics

Metrics	
Employee training provided for key staff	No
Street sweeping	
Curb miles swept	50 miles
Volume (or mass) of material collected	unknown
Catch basin cleaning	
Total catch basins in priority areas	585
Total catch basins in MS4	5408
Catch basins inspected	5408
Catch basins cleaned	136
Volume (or mass) of material removed from all catch basins	unknown
Volume removed from catch basins to impaired waters (if known)	unknown
Snow management	
Type(s) of deicing material used	Rock Salt
Total amount of each deicing material applied	1,500 tons
Type(s) of deicing equipment used	Truck mounted spreader
Lane-miles treated	220 miles
Snow disposal location	
Staff training provided on application methods & equipment	No
Municipal turf management program actions (for permittee properties in basins with N/P impairments)	
Reduction in application of fertilizers (since start of permit)	0 lbs or %
Reduction in turf area (since start of permit)	0 acres
Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems)	
Cost of mitigation actions/retrofits	\$

### 6.4 Catch basin cleaning program

Provide any updates or modifications to your catch basin cleaning program

The Town cleans catch basins that are discovered ½ full or more of sediment during routine street inspections.

## 6.5 Retrofit program

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

Many town roads already do not have curbing, primarily in rural and residential areas. The drainage basins with the highest percentages of DCIA are in the commercial and industrial areas in the southeast corner of town, along Boston Post Road (Route 1) and I-95. The town will prioritize these drainage basins, and require reduction in DCIA during redevelopment projects in this area.

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

The town plans to meet the 1% annual DCIA reduction goal through redevelopment projects in the commercial and industrial drainage basin areas with the highest DCIA.

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

See above.

## Part II: Impaired waters investigation and monitoring

### 1. Impaired waters investigation and monitoring program

**1.1 Indicate which stormwater pollutant(s) of concern occur(s) in your municipality or institution. This data is available on the MS4 map viewer: <http://s.uconn.edu/ctms4map>.**

Nitrogen/ Phosphorus  Bacteria  Mercury  Other Pollutant of Concern

#### 1.2 Describe program status.

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

All stormwater outfalls were inspected and screened for dry weather flow in 2019-2020. All outfalls to impaired waters were sampled and tested in 2020-2021. The 6 “worst” outfalls are now being sampled and tested annually.

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

#### 2.1 Screening data

**See dry weather outfall screening data (available on town Public Works Dept. Stormwater Management website).**

Complete the table below for any outfalls screened during the reporting period. Each Annual Report will add on to the previous year’s screening data showing a cumulative list of outfall screening data.

Outfall ID	Sample date	Parameter (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	Results	Name of Laboratory (if used)	Follow-up required? *

#### 2.2 Credit for screening data collected under 2004 permit

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

Outfall	Sample date	Parameter (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	Results	Name of Laboratory (if used)	Follow-up required? *					
*Follow-up investigation required (last column) if the following pollutant thresholds are exceeded:										
<b>Pollutant of concern</b>	<b>Pollutant threshold</b>									
Nitrogen	Total N > 2.5 mg/l									
Phosphorus	Total P > 0.3 mg/l									
Bacteria (fresh waterbody)	<ul style="list-style-type: none"> <li>• E. coli &gt; 235 col/100ml for swimming areas or 410 col/100ml for all others</li> <li>• Total Coliform &gt; 500 col/100ml</li> </ul>									
Bacteria (salt waterbody)	<ul style="list-style-type: none"> <li>• Fecal Coliform &gt; 31 col/100ml for Class SA and &gt; 260 col/100ml for Class SB</li> <li>• Enterococci &gt; 104 col/100ml for swimming areas or 500 col/100 for all others</li> </ul>									
Other pollutants of concern	Sample turbidity is 5 NTU > in-stream sample									
<b>3. Follow-up investigations (Section 6(i)(1)(D) / page 43)</b>										
Provide the following information for outfalls exceeding the pollutant threshold.										
<b>Outfall</b>	<b>Status of drainage area investigation</b>			<b>Control measure implementation to address impairment</b>						
6 "worst" outfalls*	Outfalls are being retested during wet weather flow.									
* Outfall ID #'s: 14 623 JM, 24 609 JM, 37 609 JM, 14 612 JM, 45 622 JM, 15 623 JM										
<b>4. Prioritized outfall monitoring (Section 6(i)(1)(D) / page 43)</b>										
Once outfall screening has been completed for at least 50% of outfalls to impaired waters, identify 6 of the highest contributors of any pollutants of concern. Begin monitoring these outfalls on an annual basis by July 1, 2020.										
<b>Outfall</b>	<b>Sample Date</b>	<b>Parameter(s)</b>	<b>Results</b>	<b>Name of Laboratory (if used)</b>						
14623JM	9/18/2024	Total Coliform/E.Coli	6212/4812	Environmental Monitoring Laboratory, Inc.						
24609JM	9/18/2024	Total Coliform/E.Coli	3844/2908	Environmental Monitoring Laboratory, Inc.						
37609JM	9/18/2024	Total Coliform/E.Coli	7944/4184	Environmental Monitoring Laboratory, Inc.						
14612JM	9/18/2024	Total Coliform/E.Coli	4184/3844	Environmental Monitoring Laboratory, Inc.						
45622JM	9/18/2024	Total Coliform/E.Coli	3684/2764	Environmental Monitoring Laboratory, Inc.						
15623JM	9/18/2024	Total Coliform/E.Coli	6212/4812	Environmental Monitoring Laboratory, Inc.						

## Part III: Additional IDDE Program Data

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

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

1. Catchment ID (DEEP Basin ID)	2. Category	3. Rank

### 2. Outfall and Interconnection Screening and Sampling data (Appendix B (A)(7)(d) / page 7)

#### 2.1 Dry weather screening and sampling data from outfalls and interconnections

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

**See dry weather outfall screening data (available on town Public Works Dept. Stormwater Management website).**

Outfall / Interconnection ID	Screening / sample date	Ammonia	Chlorine	Conductivity		Salinity	E. coli or enterococcus	Surfactants	Water Temp	Pollutant of concern	If required, follow-up actions taken

## 2.2 Wet weather sample and inspection data

**See wet weather outfall sampling data (available on town Public Works Dept. Stormwater Management website).**

Provide sample data for outfalls and key junction manholes of any catchment area with at least one System Vulnerability Factor.

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

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

### 3.1 System Vulnerability Factor Summary

For those catchments being investigated for illicit discharges (i.e. categorized as high priority, low priority, or problem) document the presence or absence of System Vulnerability Factors (SVF). If present, report which SVF's were identified. An example is provided below.

Outfall ID	Receiving Water	System Vulnerability Factors

Where SVFs are:

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

8. Sanitary sewer infrastructure defects such as leaking service laterals, cracked, broken, or offset sanitary infrastructure, directly piped connections between storm drain and sanitary sewer infrastructure, or other vulnerability factors identified through Inflow/Infiltration Analyses, Sanitary Sewer Evaluation Surveys, or other infrastructure investigations.
9. Areas formerly served by combined sewer systems.
10. Any sanitary sewer and storm drain infrastructure greater than 40 years old in medium and densely developed areas.
11. Widespread code-required septic system upgrades required at property transfers (indicative of inadequate soils, water table separation, or other physical constraints of the area rather than poor owner maintenance).
12. History of multiple local health department or sanitarian actions addressing widespread septic system failures (indicative of inadequate soils, water table separation, or other physical constraints of the area rather than poor owner maintenance).

### 3.2 Key junction manhole dry weather screening and sampling data

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

### 3.3 Wet weather investigation outfall sampling data

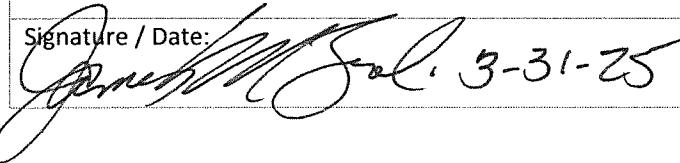
Outfall ID	Sample date	Ammonia	Chlorine	Surfactants

### 3.4 Data for each illicit discharge source confirmed through the catchment investigation procedure

Discharge location	Source location	Discharge description	Method of discovery	Date of discovery	Date of elimination	Mitigation or enforcement action	Estimated volume of flow removed

#### Part IV: Certification

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with Section 22a-6 of the Connecticut General Statutes, pursuant to Section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute."

Chief Elected Official or Principal Executive Officer	Document Prepared by
Print name: James M. Zeoli, First Selectman	Print name: Robert H. Brinton, Jr., Dir. of Public Works / Town Engineer
Signature / Date:  3-31-25	Signature / Date:  3/31/25

**2024 Orange Health Department Septic System**  
**Investigation Permits Issued**

Record #	Record Type	Title	Type	Date Issued	Expires
42822	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	12/26/2024 16:17	12/26/2025 16:16
42920	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	12/20/2024 14:49	12/20/2025 14:48
42776	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	12/18/2024 20:33	12/18/2025 20:33
42881	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	12/13/2024 22:58	12/13/2025 22:57
42558	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	12/10/2024 20:47	12/10/2025 20:47
42834	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	12/4/2024 13:28	12/4/2025 13:27
42807	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	12/3/2024 21:10	12/3/2025 21:09
42658	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	11/11/2024 11:41	11/11/2025 11:40
42472	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	10/31/2024 18:52	10/31/2025 18:52
42705	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	10/30/2024 20:16	10/30/2025 20:15
42704	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	10/29/2024 18:59	10/29/2025 18:58
42686	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	10/28/2024 16:31	10/28/2025 16:31
42663	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	10/23/2024 12:49	10/23/2025 12:48
42659	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	10/18/2024 12:06	10/18/2025 12:05
42586	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	10/4/2024 14:09	10/4/2025 14:09
42563	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	9/27/2024 19:44	9/27/2025 19:38
42494	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	9/26/2024 16:07	
42494	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	9/26/2024 15:58	9/26/2025 15:57
42471	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	9/24/2024 18:34	9/24/2025 18:33
42529	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	9/20/2024 20:30	9/20/2025 20:30
42495	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	9/17/2024 13:23	9/17/2025 13:23
42198	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	9/11/2024 16:47	9/4/2025 10:33
42398	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	9/11/2024 16:15	9/3/2025 13:12
42243	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	9/9/2024 19:14	9/9/2025 19:14
41060	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	9/5/2024 18:27	9/5/2025 18:27
42413	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	9/4/2024 18:46	9/4/2025 18:45
42415	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	9/4/2024 18:45	9/4/2025 18:44
42374	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	8/29/2024 19:35	8/29/2025 19:35
42185	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	7/31/2024 17:34	7/31/2025 17:33
42071	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	7/30/2024 18:13	7/30/2025 18:13
42073	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	7/30/2024 17:58	7/30/2025 17:58

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42184	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	7/30/2024 12:05	7/30/2025 12:04
42122	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	7/25/2024 12:07	7/25/2025 12:06
38856	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	7/24/2024 19:36	7/24/2025 19:35
42124	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	7/24/2024 14:26	7/24/2025 14:25
41587	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	7/18/2024 18:50	7/18/2025 18:49
42086	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	7/18/2024 11:42	7/18/2025 11:41
42003	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	7/17/2024 19:12	7/17/2025 19:11
41735	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	7/13/2024 20:14	7/13/2025 20:13
42017	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	7/12/2024 12:46	7/12/2025 12:46
42018	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	7/12/2024 12:45	7/12/2025 12:45
41906	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	7/9/2024 13:43	7/9/2025 13:43
41546	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	7/1/2024 19:00	7/1/2025 19:00
41566	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	6/19/2024 16:51	6/19/2025 16:50
41651	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	6/18/2024 18:55	6/18/2025 18:54
40966	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	6/18/2024 13:51	6/18/2025 13:51
41589	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	6/13/2024 12:33	6/13/2025 12:32
41818	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	6/12/2024 15:04	6/12/2025 15:04
41846	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	6/11/2024 19:05	6/11/2025 19:05
41509	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	6/7/2024 14:22	6/7/2025 14:21
41733	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	6/5/2024 14:18	6/5/2025 14:18
41670	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	5/22/2024 18:49	5/22/2025 18:49
41488	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	5/21/2024 16:50	5/21/2025 16:49
41629	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	5/20/2024 14:33	5/20/2025 14:32
41660	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	5/20/2024 13:05	5/20/2025 13:04
41530	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	5/13/2024 18:12	5/13/2025 18:12
41588	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	5/13/2024 18:11	5/13/2025 18:10
41584	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	5/13/2024 18:10	5/13/2025 18:09
41566	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	5/13/2024 18:09	5/13/2025 18:08
41509	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	5/13/2024 18:07	5/13/2025 18:06
41605	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	5/10/2024 20:21	5/10/2025 20:21
41443	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	4/19/2024 13:18	4/19/2025 13:17
41370	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	4/18/2024 18:38	4/18/2025 18:38
41457	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	4/18/2024 17:06	4/18/2025 17:06

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41369	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	4/7/2024 13:28	4/7/2025 13:27
41396	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	4/5/2024 16:28	4/5/2025 16:28
41314	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	4/2/2024 14:04	4/2/2025 14:04
41128	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	3/20/2024 19:38	3/20/2025 19:37
41186	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	3/20/2024 19:36	3/20/2025 19:36
41328	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	3/20/2024 13:40	3/20/2025 13:39
41311	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	3/18/2024 17:26	3/18/2025 17:26
41284	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	3/12/2024 12:44	3/12/2025 12:44
41202	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	2/21/2024 19:13	2/21/2025 19:12
41123	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	2/12/2024 14:47	2/12/2025 14:47
41061	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	2/2/2024 20:01	2/2/2025 20:01
41137	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	1/29/2024 22:05	1/29/2025 22:05
41069	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	1/24/2024 16:18	1/24/2025 16:18
41062	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	1/19/2024 14:20	1/19/2025 14:19
41059	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	1/18/2024 13:36	1/18/2025 13:35
41061	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	1/12/2024 13:26	1/12/2025 13:26
41064	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	1/12/2024 13:24	1/12/2025 13:24
40167	Septic Permit Application for Existing Lots	Permit to construct SSDS	Permit/License	1/11/2024 16:35	1/11/2025 16:34

Record #	Record Type	Title	Type	Date Issued	Expires
41671	Septic Permit Application for NEW lots	Permit to construct SSDS	Permit/License	5/23/2024 16:03	5/23/2025 16:02
41565	Septic Permit Application for NEW lots	Permit to construct SSDS	Permit/License	5/23/2024 15:08	5/23/2025 15:08
41053	Septic Permit Application for NEW lots	Permit to construct SSDS	Permit/License	1/3/2024 20:16	1/3/2025 20:15