

Combined Sewer Overflows 2021 ANNUAL REPORT

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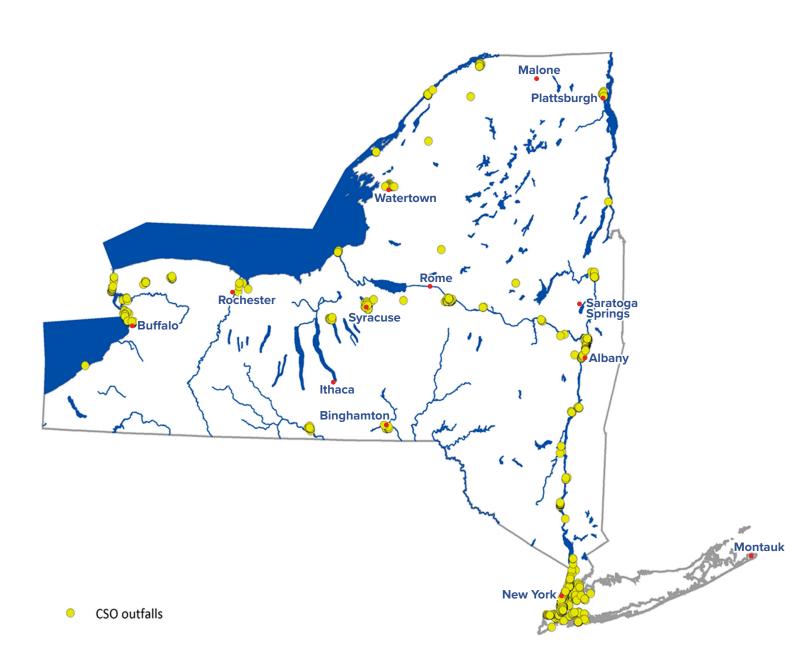


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This report summarizes activities from the 2021 calendar year and is intended as a basic program-wide annual update, compiled following review of the Combined Sewer Overflow (CSO) Best Management Practice (BMP) Annual Report Forms submitted by CSO permittees. DEC welcomes your feedback regarding this report. Please provide comments or suggestions to CSOMail@dec.ny.gov under subject of Statewide CSO Annual Report Comments.

What Is a Combined Sewer Overflow?

Combined sewer systems (CSSs) collect and convey domestic sewage, industrial wastewater, and stormwater runoff to a publicly owned treatment works (POTW). CSSs are designed to transport all their wastewater to a POTW where it is treated and then discharged to a receiving waterbody. But during heavy storm or snowmelt events, the volume of stormwater mixed with wastewater in a CSS can exceed the capacity of the sewer system and/or treatment plant. Therefore, during those events, CSSs may overflow to nearby waterbodies via permitted outfalls, which may contain stormwater and untreated sewage and industrial waste, toxic materials, and debris. These overflows are called combined sewer overflows (CSOs). Discharges from CSO outfalls are point sources which are regulated under the federal Clean Water Act and controlled by National Pollution Discharge Elimination System (NPDES) permits. These types of discharges are prohibited during dry weather.

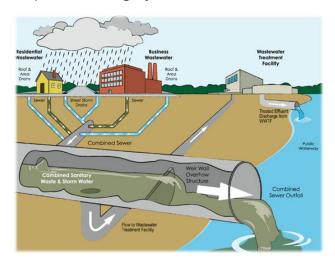


Figure 1 - Combined Sewer System

Challenges in Eliminating and Mitigating CSOs' Impact

Eliminating CSOs and reducing the frequency and volume of discharges may be difficult for a variety of reasons, both administrative and technical. The process of studying, planning, and eliminating CSOs is lengthy and could be very expensive.

A city or municipal authority typically owns the POTW and all the large system components, such as trunk lines and pump stations. Many of the sewer lines and smaller pump stations in the contributing satellite collection systems are owned by other municipalities. Although there may be few or no CSOs in the satellite systems, the flow from these systems contributes to discharges at CSOs that are owned by the city or municipal authority. Legally binding intermunicipal agreements (IMAs) between the POTW and the contributing satellite collection systems are usually necessary to facilitate the management of projects that reduce or eliminate CSOs. These IMAs often include allowable flow contributions, a fee structure, and the responsibilities for operation and maintenance of structures related to CSO control measures.

Making major technical or engineering changes to the collection system, outfalls, or treatment plant are also challenging. CSO control measures can include:

- Maximizing flow to the POTW by increasing pipe sizes and pumping capacities,
- Eliminating the physical CSO outfalls by proper sealing and abandonment,
- Increasing the size of the treatment plant to handle additional flow, or
- Completely separating the stormwater flows from the sewage by installing a separate storm sewer system.

Each of these options could be very costly, require substantial time and resources, and present unique technical or financial challenges.

Due to the time and effort required to eliminate CSOs, many CSO communities are required to develop a Long- Term Control Plan (LTCP) pursuant to the 1994 United States Environmental Protection Agency (EPA) CSO Control Policy. Workable solutions developed in an LTCP typically include a combination of options, such as upgrades to the treatment plant or pump stations; sewer separation; in-line storage systems, such as Swirl/Vortex concentrators or overflow retention facilities (ORFs);

reducing Infiltration and Inflow (I/I); and continuing the best management practices (BMPs) required in the facility's State Pollution Discharge Elimination System (SPDES) permit.

Measures of Success

As permittees continue to implement their approved LTCPs, they need to show improvements by developing and implementing a Post-Construction Compliance Monitoring (PCCM) Plan. Improvements can be through reductions in CSO volume discharge, pollutant discharge, or frequency of overflows. The EPA CSO Control Policy requires CSO permittees to report objective, measurable, and quantifiable "measures of success," which may include:

 End-of-pipe measures that show trends in the discharge of CSS flows to the receiving waterbody, such as reduction of pollutant loadings, the frequency of CSOs, and the duration of CSOs;

- Receiving-waterbody measures that show trends of the conditions in the waterbody to which the CSO occurs, such as trends in dissolved oxygen (DO) levels and sediment oxygen demand; and
- Ecological, human health, and use measures that show trends in conditions relating to the use of the waterbody; its effect on the health of the population that uses the waterbody; and the health of the organisms that reside in the waterbody, including beach closures, attainment of designated uses, habitat improvements, and fish consumption advisories.

To track progress of the LTCPs' implementation across the state, the New York State Department of Environmental Conservation (DEC) developed a CSO BMP Annual Report Form so that all CSO permittees can submit a uniform report that provides CSO LTCP implementation status. The CSO Report Form also provides the data needed to compile a statewide CSO LTCP Implementation Progress Report and to develop this annual report.

Overview of New York's CSO Program

CSSs are typically found in older cities, along large water-bodies that are navigable and support commercial traffic. Most of the CSO permittees in the United States are clustered in older industrial areas. As of 2015, the U.S. EPA¹ reported that 859 active NPDES permits for CSO discharges have been issued in 32 states, as well as the District of Columbia and Puerto Rico. Approximately 7% of these CSO permits are in New York State.

There are currently 43 communities in New York State that are permitted to own and operate a CSS with CSOs, many of which also own and operate a wastewater treatment plant (WWTP) or water pollution control plant (WPCP). Several other communities have eliminated or closed their CSO outfalls (pre- or post-LTCP), yet still have a CSS. In addition, five CSO permits have been issued to regional WWTPs, which do not own any traditional CSO outfalls within the tributary combined collection system. The metropolitan areas of New York City, Buffalo, Syracuse, and Albany own and operate 72% of the current 816 CSO outfalls in New York State, as shown in Figure 2. The New York City metropolitan area currently makes up about 49% of these outfalls. The "Albany Pool," which consists of the cities of Albany, Cohoes, Rensselaer, Troy, Watervliet, and the Village of Green Island, owns and operates 10% of the total CSO outfalls.

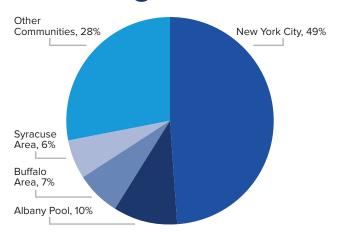


Figure 2 - CSO Outfalls — Allocation by Communities

DEC is authorized by the EPA to implement the requirements of the EPA CSO Control Policy² through the State's SPDES permitting process. DEC's CSO Abatement Strategy, as initially referenced in *Technical and Operational Guidance Series (TOGS) 1.6.3* and updated through subsequent agreements with EPA, includes 15 BMPs.³ These BMPs, which are equivalent to the "Nine Minimum Control Measures" required under the EPA CSO Control Policy, include the following:

¹ Report to Congress – Combined Sewer Overflows to the Great Lakes Basin

² EPA CSO Control Policy: https://www.epa.gov/npdes/combined-sewer-overflows-csos

³ NYS CSO BMPs: https://www.dec.ny.gov/chemical/48595.html

Table 1: DEC's CSO 15 Best Management Practices

- 1. CSO Maintenance/Inspection
- 2. Maximum Use of Collection System for Storage
- 3. Industrial Pretreatment
- 4. Maximize Flow to POTW
- 5. Wet Weather Operating Plan (WWOP)
- 6. Prohibition of Dry Weather Overflow
- 7. Control of Floatable and Settleable Solids
- 8. Combined Sewer System Replacement
- 9. Combined Sewer/Extension
- 10. Sewage Backups
- 11. Septage and Hauled Waste
- 12. Control of Run-off
- 13. Public Notification
- 14. Characterization and Monitoring
- 15. Annual Report

DEC required the implementation of the 15 BMPs as well as the development of the LTCPs⁴ for all CSO permittees, with the exceptions of permittees listed in Tables 2 and 3 of this report. The BMPs are included in all SPDES permits. BMP 15 is the preparation of an annual report. In 2013, the DEC developed an annual report template to assist communities in the required reporting of their BMPs. This template also ensures that DEC receives information necessary to complete its annual reporting requirement to EPA. This annual report template continues to be revised for effective and efficient reporting of CSO program status, LTCP progress, and compliance with the CSO Control Policy.

CSO Abatement Strategy

In 1993, DEC had an inventory of over 1,300 CSO outfalls, which were listed in 75 CSO permits and located within 46 communities. One of the original 75 permits, the City of Salamanca, is located within the Seneca Indian Reservation; this NPDES permit and CSO program are now regulated by EPA. An additional facility was added in 2010, Target Hill WWTP, when DEC discovered the facility had a combined sewer system with three CSO outfalls. The SPDES permit was subsequently modified and CSO permit requirements added; the system has since been modified and only one CSO outfall remains.

As of the end of calendar year 2021, the total number of CSO outfalls is approximately 812, the number of CSO permits has decreased to 59, and the total number of LTCPs required was 47. The number of CSO outfalls is in constant flux, as LTCPs are implemented, and outfalls are

either removed or added. The number of CSO permits has been reduced, as 16 of the original 75 CSO permits have completely separated their CSSs, have sealed off all the CSO outfalls, or never had CSO outfalls (See Table 2 in Section 3). These communities no longer have CSOs, therefore, CSO permit requirements were removed from their SPDES permits and no LTCPs were required. The number of required LTCPs is described in detail below.

CSO Outfalls Trend in NYS Since USEPA CSO Control Policy

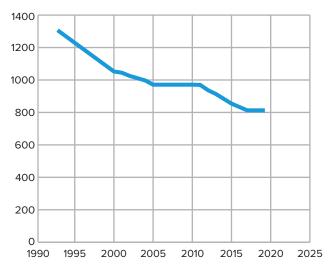


Figure 3 - CSO Outfalls Trend

This progress was mainly due to DEC's effort implementing the CSO abatement requirements in SPDES permits, as well as DEC's enforcement mechanisms. DEC believes the number of CSO SPDES permits and outfalls will continue to decrease as more approved LTCPs are implemented. All remaining CSO permits now contain the relevant CSO BMPs listed in DEC's *TOGS 1.6.3*.

Determining LTCPs Required

Over time, DEC has reduced the number of CSO permittees through verification of the system characteristics, implementation of the CSO BMPs, and implementation of the approved LTCPs. As stated previously, 47 LTCPs were required among all permittees. This was determined with the following considerations:

Twelve of the 75 CSO permittees did not need to develop an LTCP, since they separated their system or closed all CSO outfalls (See Table 2 in Section 3).

Five CSO permittees (Carthage/West Carthage, Potsdam, Saugerties, North Tonawanda, Boonville) did not have to submit a LTCP after the initial assessment of their CSS because their systems have less than 4 overflowevents annually or their systems are already capturing more than 85% of the annual average combined flow. In these

⁴ US EPA Long Term Control Plan: http://www.dec.ny.gov/chemical/48595.html

situations, the remaining discharges are presumed to meet the water-quality requirements of the Clean Water Act (CWA); however, PCCM of the receiving waters was still required to demonstrate compliance with the applicable water quality standards (WQS).

Since the initial assessment was made, three of these communities (Carthage/West Carthage, Potsdam, Saugerties) have closed their CSO outfalls or separated their system and are no longer CSO permittees, while the other two CSO permittees (North Tonawanda, Boonville) continue to implement the CSO BMPs and monitor compliance with the CWA (See Table 4 in Section 5).

Five other CSO permits are for Regional WWTPs, with no associated CSO outfalls, but with SPDES permitted conditions, including any applicable CSO BMPs and a WWOP to maximize treatment of influent flows from the CSSs (See Table 3 in Section 4). These Regional WWTPs receive wastewater flows from one or more communities with CSSs and were not required to develop their own LTCP. Instead, these WWTPs were to partner with their tributary CSSs in developing and implementing tangible CSO reduction solutions.

Thirteen of the 53 remaining CSO permits are for the same permittee, New York City, covering their WWTPs with CSSs. Waterbody/Watershed Facility Plans, developed by New York City under a 2005 Order on Consent, identified the need to develop 12 LTCPs based on various receiving waterbodies to address CSOs associated with all 13 of their CSO permits.

In early 2021, NYC and DEC executed a NYC CSO Order on Consent modification that led to the redesignation of the Rockaway Wastewater Resource Recovery Facility (WRRF) collection system from a CSS to a Sanitary Sewer System (SSS). While the CSO Order modification initiated this redesignation, the 2022 SPDES Permit Renewal formally documented the removal and elimination of the previously identified CSO outfalls. Note that this redesignation does not change the number of LTCPs required but does reduce the number of CSO permits (to 59) and CSO outfalls (as stated previously).

The six Albany Pool communities partnered together (along with the three associated regional WWTPs) and in lieu of producing six LTCPs, produced a single holistic LTCP.

Therefore, the actual number of required LTCPs to be submitted and approved by DEC is 47. Forty-five of the 47 required LTCPs have been approved and are currently being implemented. DEC has been working with New York City to have their two remaining LTCPs approved as soon as possible (Citywide/Open Waters, submitted September 30, 2020; and Jamaica Bay, submitted July 2, 2018). Once a LTCP is approved, the implementation of the LTCP is memorialized in the appropriate CSO permit

or an Order on Consent to ensure the compliance schedules to construct the additional CSO control measures are enforceable. The statuses of the remaining CSO LTCPs are summarized in Section 7 of this report.

Compliance Monitoring Strategy

The following are DEC strategies to ensure compliance with the EPA's CSO Control Policy:

The Clean Water Act, enacted in 1972, is the primary federal law governing water pollution control, including CSOs. In the late 1970s, federally funded construction grants for WWTPs peaked, and many POTWs were either constructed or upgraded to include secondary treatment.

The first step in CSO enforcement strategy is through the SPDES permit CSO BMPs. However, when all the measures in the BMPs are not sufficient to meet the WQS, permittees are required to develop an LTCP in accordance with the EPA's CSO Guidance for LTCPs (September 1995). Additionally, DEC may use other enforcement mechanisms to require compliance with the policy.

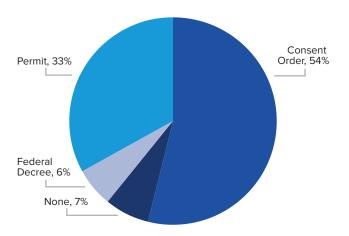


Figure 4 - Overall CSO Compliance Monitoring by Category

For the 2020 reporting year, DEC initiated additional efforts regarding the 2020 CSO BMP Annual Reports, seeking to improve this updated report. In addition to ensuring each BMP report was submitted complete and on time, DEC also thoroughly and expeditiously reviewed each submission and provided each permittee a formal comment and recommendation letter. These letters included questions related to engineering practices, maintenance, and inspections, and clarifications of the information provided. Common recommendations provided to permittees for the 2020 reporting year included a request to review/verify the number of CSO events reported, review and update older WWOP, and clarify minimum Annual Report requirements. For future years, DEC intends to continue to conduct additional quality assurance and control on BMP annual reporting.

Permit Requirements and Compliance Monitoring

DEC issues SPDES permits to communities and other legally responsible parties—such as water/sewer authorities—with CSO outfalls. The following requirements are included in SPDES permits or Orders on Consent to manage and reduce overflows:

- All CSO outfall locations must be listed in the SPDES permit;
- Relevant BMPs appropriate to the specific conditions of the CSS must be included in the SPDES permit;
- 3. Most CSO communities are required to develop a LTCP that is implemented through the SPDES permit or an Order on Consent. If the implementation is governed under a Consent Order, the compliance schedules are incorporated by reference into the SPDES permit; and
- CSO permittees must continue the implementation of the applicable 15 CSO BMPs listed in their SPDES permits.

In addition, DEC uses the following tools to track compliance monitoring of CSO permittees and abatement activities:

- DEC developed the Annual Report Form in 2013 to assist communities in reporting and to ensure that DEC receives information necessary to complete its annual reporting requirement to EPA.
- 2. DEC developed the CSO Inspection Form to assist staff in their annual compliance inspection. DEC staff use this form to assess compliance with CSO permit requirements and to get a complete picture of how the control facilities performed and are maintained.
- The LTCP compliance schedules are tracked using the federal Integrated Compliance Information System (ICIS) data system, and any significant noncompliance of the approved LTCP is addressed through the Significant Non-Compliance Action Plan (SNAP) process.

CSO Mapping and Public Notifications

DEC has developed a CSO Google Map⁵ showing the location of all CSOs. In 2019, DEC completed an update to all remaining CSO outfalls, including coordinates and receiving waters. In 2020, DEC completed incorporation of the updated map into the DEC public web-based environmental resource tool, DEC infoLocator⁶. DEC infoLocator includes several layers to keep the public informed about the CSO program and CSO abatement progress, and to help the public make decisions about boating, swimming, and recreating on waterbodies. The CSO layer will provide the public with directly related information for the affected receiving water(s) and classifications, the applicable SPDES permit, and a link to the most recent CSO BMP Annual Report submitted by the municipality.

Under the state's Sewage Pollution Right to Know Act of 2013 (SPRTK)⁷, untreated and partially treated sewage discharges, which include CSOs, are required to be reported to DEC by POTWs and publicly owned sewer systems (POSSs) within two hours of discovery, and reported to the local health departments, the public, and adjoining municipalities within four hours of discovery. Partially treated discharges directly from a treatment plant that operates in accordance with a DEC-approved WWOP are exempt from reporting. It should be noted that many factors, including location, construction, system condition, tidal influence, etc., contribute to the difficulty in accurately monitoring the volume of discharge from CSO outfalls. Most CSO outfalls do not have real-time monitoring of discharge volume, and reported discharges are typically estimated or modeled. Section 7 provides more discussion on monitoring flow and discharge from CSO outfalls.

CSO communities, including those that discharge to the Great Lakes, are required to report overflow information using the NY-Alert system. The public can sign up to receive sewage spill notifications sent directly to their phones or emails by signing up for NY-Alert. In addition, recent sewage spill notifications are posted on the DEC website, including CSO reports. Information received from POTWs and POSSs is summarized on the Sewage Discharge Notifications⁸ webpage. The information is available to the public and adjoining municipalities.

⁵ Map of CSO Locations: <u>http://www.dec.ny.gov/pubs/42978.html#cso</u>

⁶ DEC InfoLocator: <u>https://www.dec.ny.gov/pubs/109457.html</u>

⁷ Sewage Pollution Right to Know Act: http://www.dec.ny.gov/chemical/90315.html

⁸ Sewer Discharge Notifications Page: http://www.dec.ny.gov/chemical/101187.html

Reporting requirements under the SPRTK include:

- a. The volume and treated state of the discharge,
- b. The date and time of the discharge,
- c. The expected duration of the discharge,
- d. A brief description of the steps being taken to contain the discharge (except for wet weather CSO discharges),
- The location of the discharge, with the maximum level of specificity possible, and
- f. The reason for the discharge.

DEC prepares an annual report of the discharges reported under SPRTK. The annual discharge report includes the total number of discharges, the volume and duration of discharges, and the remedial responses, if any, that were taken. Since most CSO locations do not have monitoring, DEC has developed a reporting template that POTWs can use to direct the public to sewer system computer simulation models or other customized CSO notification tools. Due to lack of real-time flow monitoring at CSO outfalls, the volume of discharge from CSOs is often based on modeling or estimates based on knowledge of the CSO outfall and storm event.

On January 8, 2018, the EPA finalized the Public Notification Requirements for CSOs to the Great Lakes Basins ("the Rule"), which required municipalities with CSO discharges to the Great Lakes system to develop and implement a public notification plan (PNP). The PNP is required to outline how the CSO permittee will ensure the public receives adequate notification of CSO occurrences and CSO impacts, in addition to regulatory agencies. The Rule also requires the CSO permittee to place signs at CSO discharge points and potentially impacted public access areas; and to submit an annual notice summarizing all CSO discharges that occurred in the previous calendar year. At the time the Rule was finalized, there were 20 Great Lakes CSO Permittees in New York. However, three permittees (Potsdam (V), Clayton (V), and North Tonawanda (C)), were exempt from the development of a PNP. Potsdam (V) was already under construction that would seal the only CSO outfall, Clayton (V) had already closed its 3 CSO outfalls in 2015, and North Tonawanda (C) has not had a CSO event occur in 30-plus years.

The remaining Great Lakes CSO permittees are:

DEC Region	Permittee	SPDES #
6	Gouverneur (V) WWTF	NY0020117
6	Watertown (C) WPCP	NY0025984
6	Ogdensburg WWTP	NY0029831
6	Massena WWTP	NY0031194
6	Village of Boonville	NY0020494
7	Auburn (C) STP	NY0021903
7	Syracuse Metro WWTP	NY0027081
7	Oswego-West Side STP	NY0029106
7	Oswego-East Side STP	NY0029114
7	Canastota WPCF	NY0029807
8	Medina (V) WWTP	NY0021873
8	Monroe County (Frank E. Van Lare STP)	NY0028339
9	Niagara Falls WWTP	NY0026336
9	Lockport WWTP	NY0027057
9	Dunkirk WWTP	NY0027961
9	Bird Island WWTF (BSA)	NY0028410
9	North Tonawanda	NY0026280

DEC notified each Great Lakes CSO permittee in May 2018 and required submission of a PNP by August 2018, and implementation of the PNP and other Rule requirements by November 2018. As stated previously, DEC already requires reporting these CSO events to the NY-Alert system, which simultaneously informs the public and regulatory agencies. The signage and annual reporting requirements of the Rule have already been implemented by all CSO permittees statewide, in accordance with CSO BMP #13 and CSO BMP #15, both of which are requirements of the associated SPDES permits. Therefore, all Great Lakes CSO permittees in New York have complied with the requirements of the EPA's Public Notification Requirements for CSOs to the Great Lakes Basins rule.

Permittees That Have Separated Their CSS or Have Sealed Off or Never Had CSO Outfalls

Table 2: Perr	mittees that hav	ve separated their CSS, have sealed off their CSO outfalls, or never had CSO outfalls
Facility	SPDES #	Notes
Coxsackie (V)	NY0033545	The permittee entered a Consent Order with DEC requiring them to develop a work plan with a schedule to investigate and address I/I and determine whether the collection system is separate or combined by 8/21/2009. A sewer system investigation revealed that the Village of Coxsackie does not have a CSS. As a result, the three CSO outfalls were redesignated as Sanitary Sewer Overflow (SSO) outfalls. Subsequently, in a June 2013 revised Consent Order, DEC agreed to modify its permit to delete all references to CSOs and insert requirements pertaining to SSS. The modified permit was issued on 2/17/14 with SSO abatement requirements.
Erie County Sewer District #6	NY0022136	The system is now a separate sewer system; CSO outfalls have been sealed.
Holley (V)	NY0023256	There was only one CSO outfall associated with this permit. However, it was later discovered that this outfall was incorrectly designated a CSO outfall. The permit was modified to include SSO abatement requirements. Therefore, the Village of Holley is no longer a regulated CSO community.
Lewiston (T) (LMSIA)	NY0027766	There are no CSO outfalls associated with this facility because the collection systems have been separated. The Town of Lewiston has one Type 1 SSO, an emergency overflow at the WWTP influent lift station wet well, and one Type 2 SSO, an onsite ORF at the WWTP. No LTCP is required.
Lewiston Overflow Retention Facility	NY0024481	System is no longer a CSS. All flows are diverted to the WWTP or held at the ORF. Overflows from the ORF receive primary treatment. All CSO language has been removed from their SPDES permit.
Mechanicville (C)	NY0248941	The City of Mechanicville CSOs were eliminated. They have upgraded sewers and sewage pumping stations under a DEC Order on Consent and eliminated the CSOs. No LTCP was required in the permit.
Owasco (T)	NY0029297	All flows from Sewer District #1 and Sewer District #2 go to the Auburn STP for treatment. The Town of Owasco implemented a project to upgrade its sanitary sewer and high flow pumping station and install an equalization tank. The CSO outfalls were permanently capped and eliminated by 1/1/2003.
Owego (V)	NY0029262	All CSO outfalls have been cemented off and permanently closed.
Saratoga County	NY0029240	Saratoga County SD #1 indicated that there has never been a CSO outfall in their drainage area, so no further actions were taken.
Schenectady (C)	NY0020516	The permittee was originally required to submit an LTCP because it was believed they operated a CSS with two CSO outfalls. In reviewing an I/I report, DEC concluded that this is not a CSS. The "Alco Regulator" (CSO 002) is a SSO which discharges approximately 1 million gallons per year of dilute raw sewage to the Mohawk River. The other outfall believed to be a CSO outfall (CSO 006) was sealed on 5/9/2007. The City of Schenectady has entered a Consent Order with DEC to eliminate SSO discharges and no LTCP is required.
Tupper Lake (V)	NY0029939	The Village of Tupper Lake separated its sewer system as well as increased the system's capacity through various projects since its LTCP was approved in 2007. They have also upgraded their pump stations (rebuilt manholes and increased pump capacity), which were the cause of all recent CSOs. Permit now includes SSO BMPs and I/I study requirements.
Wellsville WWTP	NY0020681	The system is now a separate sewer system; CSO outfalls have been sealed.

Table 2: Per	rmittees that ha	ve separated their CSS, have sealed off their CSO outfalls, or never had CSO outfalls
Facility	SPDES #	Notes
Carthage/West Carthage (V) NY0025151		DEC confirmed that the Water St. Pump Station Bypass was permanently sealed sometime before 1995. The permit was modified to reflect this in 1998 when the outfall was removed from the permit. Since the villages of Carthage and West Carthage have no known overflows, CSO abatement is not required in this permit. The Village of West Carthage has 100% separate sewers, and the Village of Carthage has about 90% separate. Some I/I reduction work has been done over the years, and this, coupled with the significant reduction of flows to the WWTP following the closure of a major industry, has resulted in no hydraulic overloading of the facilities. As of 2019, the collection system remains 5% CSS and has no CSO outfalls.
Potsdam (V)	NY0020818	There was only one CSO outfall associated with this permit. Outfall 002 was used when plant flows exceeded 5.9 million gallons per day (MGD) into the treatment plant. This discharge combined with treated flows from Outfall 001 prior to discharge to the Raquette River. Because there had not been any observed overflows, the Village of Potsdam was not required to submit an LTCP. At the end of 2018, during an upgrade of the WWTP, the CSO diversion was blind-flanged and eliminated. The CSO outfall and CSO BMPs were subsequently removed from the SPDES permit; however, this collection system remains as 80% CSS.
Saugerties (V) (Dock St.)	NY0031208	At one time, Saugerties had three STPs, all Imhoff tanks (primary treatment only). When the main plant (on Dock St.) was upgraded in the 1970s, the other two (Ripley St., NY0033928, and East Bridge St., NY0033936) were replaced with pump stations, the two permits were deleted, and the treatment plants were converted to stormwater retention basins, with the outfalls retained in the permit for Dock St. as CSOs. DEC confirmed that they never discharged any CSOs, so they were deleted from the permit in 1994.
NYCDEP – Oakwood Beach WRRF	NY0026174	This facility is exempt from the NYC CSO program because it is not a CSS and thus has no CSO outfalls. Consistent with the other NYC WRRF permits, this facility requires several similar BMP conditions, including a WWOP.
NYCDEP – Rockaway WRRF	NY0026174	In early 2021, NYC and DEC executed a NYC CSO Order on Consent modification that led to the redesignation of the Rockaway collection system from a CSS to an SSS. Following an engineer's investigation, it was discovered that the previously identified CSO outfalls were Pump Station Emergency Bypasses, WRRF bypasses, or Municipal Separate Storm Sewer System (MS4) stormwater outfalls, or had been sufficiently closed or removed. While the CSO Order modification initiated this redesignation, it was formalized in the 2022 SPDES permit renewal with the elimination of the previously identified CSO outfalls. Consistent with the other NYC WRRF permits, this facility is still required to continue several similar BMP conditions, including a WWOP.

Permittees with No CSO Outfalls but with Wet Weather Operating Conditions

Table 3: Permittees with no CSO outfalls but with wet weather operating conditions to maximize flows from tributary CSS						
Facility	SPDES #	Notes				
Albany North/ South WWTP	NY0026875/ NY0026867	There are no CSO outfalls in these WWTP permits. The permits are strictly for the Albany County-owned WWTPs. The facilities accept and treat wet weather flows from four CSO communities (Albany, Cohoes, Green Island, and Watervliet), which are permitted separately for their CSO contributions.				
Binghamton- Johnson City	NY0024414	There are no CSO outfalls in this WWTP permit. The permit is strictly for the WWTP. Outfall 002, designated for plant bypass, has been cemented. The facility accepts and treats wet weather flows from both the Binghamton CSO and the Village of Johnson CSO systems. The plant underwent a rebuild following a wall collapse and flooding, which was completed in 2020. A viewport failure of the new Carbon-Nitrogen (CN) treatment units in February 2022 caused flooding at the plant and the facility is currently working on remediation and rebuild of the failed area.				
Oneida County WPCP	NY0025780	There are no traditional CSO outfalls in this permit. The permit is strictly for the Oneida County-owned WPCP, which accepts and treats flows from one CSO community (Utica). In 2021, the WPCP completed construction of the final element of the Utica (C) LTCP—an expansion, including a new combined sewer influent treatment train with dedicated screening, grit removal, primary treatment, and a high-rate disinfection (HRD) system (chlorination/dichlorination). The system operates under normal conditions and sends flows to secondary treatment. Under significant wet weather conditions, flows exceeding secondary treatment are sent to the HRD system and discharged to the receiving water, as a permitted CSO-related bypass.				
Rensselaer County STP	NY0087971	There are no CSO outfalls in this permit. The permit is strictly for the Rensselaer County-owned WWTP. The facility accepts and treats wet weather flows from two CSO communities (Troy and Rensselaer), which are permitted separately for their CSO contributions.				

Permittees Not Required to Develop a CSO LTCP

The following facilities are not required to develop an LTCP because they have infrequent CSO discharges and have met the Presumptive Approach under the CSO Control Policy.

Table 4: Permittees not required to develop a CSO LTCP					
Facility	SPDES #	Notes			
Boonville (V)	NY0020494	The Village of Boonville originally maintained 2 CSO outfalls, 002 and 003. Outfall 003 was eliminated on 10/2/2006. All wet weather flows under 2 MGD receive full secondary treatment. All wet weather flows in excess of 2 MGD are diverted to an overflow retention facility (ORF) after receiving preliminary screening and grit removal. The ORF provides equivalent primary treatment prior to discharge through Outfall 002. The Village is conducting replacement of the Mill Creek Interceptor and some minor associated separation projects, while also planning construction of UV disinfection at the WWTP. The Village is currently capturing and treating nearly 100% of the combined sewage flow during the average annual year. One CSO event occurred in both 2019 and 2020, consisting of 143,505 gallons and 1,500 gallons, respectively. Two CSO events occurred in 2021, consisting of 298,000 gallons total.			
North Tonawanda (C)	NY0026280	The CSOs in the City of North Tonawanda typically had not activated for 30 years prior to 2021, therefore no LTCP was required. All combined sewers are directly tributary to the WWTP. The permittee had three CSOs, including an on-site ORF (full primary and disinfection), a WWTP headworks bypass, and a conventional manhole overflow at East Ave. Outfalls 01B (WWTP headworks bypass) and 010 (East Ave) are for emergency use only to protect the WWTP. Outfalls 01A and 01B are internal at the WWTP and blend with the WWTP effluent prior to discharge. The ORF discharges occasionally (one—two times per year on average, none in 2019 or 2020), while the other two CSOs have never been known to discharge. Three CSO events occurred in 2021, consisting of 24 million gallons (MG) total.			

Permittees with Pending CSO LTCPs

	Table 5: Permittees with pending CSO LTCPs					
	DEC	C LTCP Report		DEC LTCP Report		
Permittee	Region	Due Date	Date Submitted	Notes		
NYCDEP – Jamaica Bay & Tributaries	2	6/30/2018 (originally 6/30/2017)	6/30/2018	The LTCP was received timely. DEC's comments were provided to NYCDEP on 12/21/2018. NYCDEP provided a response to DEC comments on 3/1/2019 and indicated that supplemental documentation would be provided to address DEC comments, following additional evaluation and technical analysis. The LTCP Supplemental Documentation was provided on 8/14/2019. DEC provided additional comments on 10/11/2019. NYCDEP and DEC have continued to have technical meetings since that time. NYCDEP is expected to submit a supplemental LTCP to reflect the updated status, because of the COVID-19 pandemic, for the various components originally proposed. Detailed information about this project is available at https://www1.nyc.gov/site/dep/water/jamaica-bay.page .		
NYCDEP Citywide (Open Water/ East River)	2	9/30/2020 (originally 12/31/2018)	9/30/2020	The LTCP was received timely. DEC Comments were provided to NYCDEP on 3/9/2021. NYCDEP and DEC continue to have technical meetings to discuss the details of the modeling and proposed projects. Detailed information about this project is available at https://www1.nyc.gov/site/dep/water/citywide-east-river-open-water.page		

Status of New York State's CSO LTCP Implementation

This section describes the status of implementation of New York State-approved CSO LTCPs statewide. Subsection (a) describes the summary of the NYC CSO Abatement Program as well as the implementation status. Subsection (b) is a summary of the Albany Pool CSO Abatement Program followed by implementation status. Subsection (c) describes the status of CSO abatement for the rest of CSO permittees in New York State.

The reporting format for each permittee is consistent with the EPA requirements for information regarding collection systems, receiving water, LTCP, PCCM Plan, and implementation status.

Under Collection System, this report describes data from before and after LTCP for the number of outfalls, overflow events, percentage of sewer system that is combined, and the population served by a CSS. Any data that is currently not available is shown as "Not Available" or "NA." There are four possible ways for permittees to measure and report the number of overflow events:

- Modeling: Because of the complex nature of CSSs, hydraulic conditions vary due to the intermittent and variable characteristics of CSO flows. Flow volumes and frequencies from larger municipalities like NYC, Albany Pool, Buffalo, and a few smaller municipalities were based on predicted overflows and events using mathematical models that were part of the approved LTCP.
- Visual observation: Some municipalities use any observation of debris on overflow weirs as evidence of a CSO event. Others might use a pre-marked water level at an outfall as an indication of an overflow event.
- Metering: Some municipalities might install flow meters in some representative outfalls.
- Calculated/Estimated: For a less complex CSS with fewer outfalls, some municipalities might use a spreadsheet flow balance to estimate CSO volume discharges.

Consequently, due to rainfall variability and complexity of CSSs, CSO volume discharges and events in this report are considered estimates and may not fully represent the true number of CSO frequencies in New York State.

The receiving water information presents overall conditions based on the existing data in the Section 303(d) report.

New York City CSO Program

New York City, consisting of the boroughs of Manhattan, Queens, Bronx, Brooklyn, and Staten Island, has the largest number of CSO outfalls in New York State (See Figure 5). There are 14 WRRFs associated with the New York City municipal sewer system. The Oakwood Beach WRRF sewershed is not a CSS and has no CSO outfalls. In 2021, the Rockaway WRRF was redesignated as a SSS and is no longer considered a CSS/CSO permittee following issuance of the 2022 SPDES Permit Renewal. The other 12 wastewater treatment facilities contain 400 permitted CSO outfalls.

The New York City Department of Environmental Protection (NYCDEP) is required under a 2005 Order on Consent (C02-20000107-8) to reduce CSOs from its sewer system to improve the water quality of its surrounding waters, including Flushing Bay, Jamaica Bay, East River and its tributaries, Long Island Sound, and the Outer Harbor. The 2005 Consent Order required NYCDEP to develop Waterbody/Watershed Facility Plans, which were the initial phase of CSO planning, to construct various grey infrastructure projects, and to develop LTCPs that built upon the Waterbody/Watershed Facility Plans.



Figure 5 - NYC Map — CSO outfall locations

To date, LTCPs have been developed and approved by DEC for Alley Creek, Bronx River, Flushing Creek, Flushing Bay, Gowanus Canal, Hutchinson River, Paerdegat Basin, Westchester Creek, Coney Island Creek, and Newtown Creek. A summary of each approved LTCP can be found in Table 6 below.

The LTCP for Jamaica Bay and Tributaries was submit-ted on July 2, 2018, and the Citywide (East River/Open Water) LTCP was submitted on September 30, 2020. Both LTCPs are still under review by DEC.

Detailed information about the overall NYC CSO program is available at:

- https://www1.nyc.gov/site/dep/water/nyc-water
 ways.page
- https://www1.nyc.gov/site/dep/water/ combined-sewer-overflows.page

Pre- and post-construction monitoring data are also available from the Harbor Survey at https://www1.nyc.gov/site/dep/water/harbor-water-quality.page. Annual CSO PCCM and CSO Retention Facility Overflow Summary Reports are available upon request.

	Table 6 – Summary of NYCDEP-approved LTCPs					
LTCP Name	LTCP Approval Date	Notes				
Alley Creek	3/7/2017	LTCP recommends a disinfection facility (chlorination and dichlorination). Detailed information about the Alley Creek LTCP is available at https://www1.nyc.gov/site/dep/water/alley-creek.page .				
Bronx River	3/7/2017	LTCP recommends relief interceptors for Outfalls HP-007 and HP-009, and floatables control at HP-011. Detailed information about the Bronx River LTCP is available at https://www1.nyc.gov/site/dep/water/bronx-river.page .				
Flushing Bay	3/7/2017	LTCP recommends 25 MG CSO storage tunnel. Detailed information about the Flushing Bay LTCP is available at https://www1.nyc.gov/site/dep/water/flushing-bay.page .				
Flushing Creek	3/7/2017	LTCP recommends disinfection (chlorination and dichlorination) of Flushing Tank overflows at TI-010, and screening, disinfection (chlorination and dichlorination) of TI-011 overflows. Detailed information about the Flushing Creek LTCP is available at https://www1.nyc.gov/site/dep/water/flushing-creek.page .				
Gowanus Canal	3/29/17	LTCP recommends no further action. Detailed information about the Gowanus Canal LTCP is available at https://www1.nyc.gov/site/dep/water/gowanus-canal.page .				
Hutchinson River	3/7/2017	LTCP recommends CSO Outfall HP-024 extension with seasonal disinfection and floatables control. Detailed information about the Hutchinson River LTCP is available at https://www1.nyc.gov/site/dep/water/hutchinson-river.page .				
Paerdegat Basin	2/1/2007	LTCP recommended 50 MG CSO retention facility with in-line storage and floatables control. Project is complete. Detailed information about the Paerdegat Basin LTCP is available at https://www1.nyc.gov/site/dep/water/paerdegat-basin.page .				
Westchester Creek	8/1/2018	LTCP recommends no further action. Detailed information about the Westchester Creek LTCP is available at https://www1.nyc.gov/site/dep/water/westchester-creek.page .				
Coney Island Creek	4/4/2018	LTCP recommends no further action. Detailed information about the Coney Island Creek LTCP is available at https://www1.nyc.gov/site/dep/water/coney-island-creek.page .				
Newtown Creek	6/27/2018	LTCP recommends a 26 MGD Borden Ave. Pump Station Expansion and 39 MG CSO Storage Tunnel. Detailed information about the Newtown Creek LTCP is available at https://www1.nyc.gov/site/dep/water/newtown-creek.page .				

Facility Info: New York City DEP SPDES Permit #: Varies Plant Flo						
		Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current		
	CSO outfalls:	404	408	400		
Collection System:	Percentage of collection system that is combined:	-	60	60		
Current info on CSO	Length of CSS (miles):	-	3,337	3,337		
outfalls, overflows, volume capture, CSS	Average annual CSO events:	38	TBD	21		
area, population served	Average annual CSO volume (MG):	29,566	TBD	26,411		
	Population served by collection system:	8,000,000	TBD	8,600,000		
	Number of satellite system connections:	0	0	0		
Measurement Type for CSO Volume Discharges:	Modeled/Metered	Modeled/Metered				
CSO Abatement Approach:	Demonstrative Approach					
LTCP Info: Dates approved, Issues, Approach, Status	DEC has 10 approved LTCPs for Alley Creek, Bronx River, Gowanus Canal, Flushing Bay, Flushing Creek, Hutchinson River, Paerdegat Basin, Westchester Creek, Coney Island Creek, and Newtown Creek (See Table 6 for DEC approval dates). NYCDEP has two pending LTCPs for Jamaica Bay and Tributaries and Citywide/Open Waters (See Table 5). Additional Information on NYCDEP's LTCPs, including factsheets, LTCPs, approval status, and progress, can be found at https://www1.nyc.gov/site/dep/water/nyc-waterways.page .					
PCCM:	NYCDEP has been conducting PCCM in various waterbodies including Alley Creek, Paerdegat Basin, Gowanus Canal, Flushing Creek, and Spring Creek, as required under its previously approved Waterbody Watershed Facility Plans. More information can be found at https://www1.nyc.gov/site/dep/water/harbor-water-quality.page .					
Implementation Status:	Information regarding the implementation status of the NYCDEP LTCPs can be found at https://www1.nyc.gov/site/dep/water/nyc-waterways.page .					

Albany Pool CSO Program

Six Capital Region communities known as the "Albany Pool"—the cities of Albany, Troy, Rensselaer, Cohoes, and Watervliet, and the Village of Green Island—have worked together and collectively developed a LTCP under a Consent Order with DEC. The Albany Pool area originally had 92 CSO outfalls, reduced to 85 as of 2021. The regional plan will address the CSOs discharging to the Hudson and Mohawk rivers and improve water quality in a way that is more cost-effective than if each municipality developed its own plan. These 6 communities, along with the Albany County and Rensselaer County sewer districts, will implement this 15-year plan with most of the improvement realized in the first 10 years.

The Albany Pool LTCP is a phased approach to control CSOs. When the LTCP is fully implemented, Albany Pool communities and the 2 sewer districts will capture 85% of the annual CSO volume and treat it for bacteria and sewage-related floatable waste.

This will improve the river's water quality and allow for recreational activities (swimming and fishing) to resume within hours instead of days after a typical rainstorm event. The LTCP implements a strategy to maximize the use of green infrastructure (GI) practices for additional CSO reduction over time.

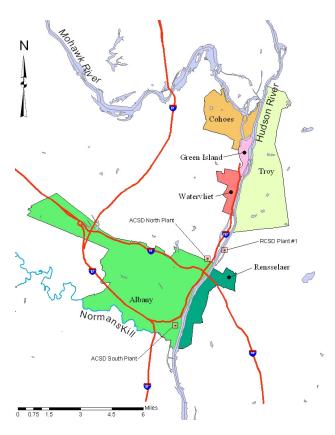


Figure 6 - Albany Pool Communities

Key elements of the LTCP include:

- Maximizing the flow of combined sewage from the Albany Pool communities to the Albany County (North and South) and Rensselaer County WWTPs, pump stations upgrades, sewer system improvements, and sizing the new bacterial disinfection systems in the county treatment plants to accommodate and treat more stormwater-related volume.
- Building and operating a new satellite treatment facility to disinfect CSO flow and control of sewage-related floatable waste at the largest CSO outfall in the system, located in Lincoln Park in the City of Albany.
- Implementing multiple projects to separate combined sewers (create separate lines for stormwater and sewage) and eliminate some existing CSOs.
- Adding facilities to control the discharge of floatable waste at major CSO outfalls in the City of Cohoes and at the Corning Preserve in the City of Albany.
- Implementing a long-term GI strategy to further reduce CSO releases above the 85% capture and treatment level. This strategy will maximize the use of GI in the Albany Pool communities, which will reduce CSOs over time. GI practices help control stormwater at its source, remove pollutants, and reduce the amount of runoff and waste that ends up in sewer systems and local waterbodies. Examples of GI practices are green roofs, pervious pavement, and rain gardens.

In 2019, the Rensselaer County Sewer District (RCSD) completed installation of several WWTP upgrades required under the LTCP, including primary pumps; primary clarifier chain and flights; grit transfer piping; and new cyclone de-gritters. RCSD authorized and completed an additional LTCP project, the Secondary System Capacity Evaluation, during 2020, which was approved by DEC in November 2020.

In 2020 and 2021, DEC issued a modification of the City of Albany SPDES permit and approved the plans and specifications for the Beaver Creek CSO Disinfection Facility. This major LTCP project will screen and disinfect 100 MGD of CSO flows that would otherwise be, or historically have been, discharged without any treatment. Construction of the facility broke ground in mid-2021 and is anticipated to be completed on time, by December 31, 2022, in accordance with the Order on Consent deadline.

Detailed information regarding the Albany Pool CSO program, including the approved LTCP report, implementation schedule, and Consent Order, is available on the Albany Pool's website, https://www.albanypoolcso.org/.

Pool-wide Summary						
		Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current		
	CSO outfalls:	92	86	87		
Collection System: Current info on CSO	Percentage of collection system that is combined:	59	59	58		
outfalls, overflows,	Length of CSS (miles):	477	471	455.5		
volume capture, CSS	Average annual CSO events:	275	224	221		
area, population served	Average annual CSO volume (MG):	1,198	610	1,150		
	Population served by collection system:	186,419	188,533	187,331		
Measurement Type for CSO Volume Discharges:	Modeled					
CSO Abatement Approach:	Presumptive Approach (85% capture)	Presumptive Approach (85% capture)				
LTCP Info: Dates submitted and approved, Issues, Approach, Status	In 2007, the communities of Albany, Troy, Cohoes, Rensselaer, Green Island, and Watervliet came together with support of the Albany County and Rensselaer County sewer districts to develop a regional approach to CSO controls, this regional approach was laid out in the LTCP. An Order on Consent was issued 1/10/2014 for the implementation of the final approved LTCP. More information regarding the Albany Pool LTCP can be found at https://www.albanypoolcso.org/ .					
PCCM: Status	The PCCM Plan was approved by DEC in 2015. The Albany Pool communities have collected the first two years of data in the receiving waters in accordance with the PCCM Plan. Additional information on the PCCM can be found at https://www.albanypoolcso.org/.					

Facility Info: City of Alban	у	SPDES Pern	nit #: NY0025747	Plant Flow: No WWTP		
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current	
	CSO outfalls:		14	9	13	
Collection System:	Percentage of collection system that is combined:		55	55	55	
Current info on CSO	Length of CSS (miles	s):	251	251	251	
outfalls, overflows, volume capture, CSS	Average annual CSC) events:	58	55	68	
area, population served	Average annual CSC) volume (MG):	739	394	685	
	Population served b	y collection system:	97,856	99,040	99,000	
	Number of satellite	system connections:	0	0	0	
Measurement Type for CSO Volume Discharges:	Modeled					
CSO Abatement Approach:	Presumptive Approa	ach				
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls	
Receiving Water Info: 303(d), TMDL, Sensitive	Hudson River	1301-0002	С	Y	10	
areas	Krum Kill	1311-0004	А	Y	1	
Additional Waterbody Information:	The segment of the Hudson River receiving CSO discharges from the City of Albany is listed on the NYS 2018 303(d) as impaired for Fish Consumption due to PCBs caused by contaminated sediment. Additionally, the segment of the Hudson River is also stressed for Aquatic Life, Recreation, Habitat/ Hydrology, and Aesthetics due to aesthetics (floatables) and pathogens caused by CSOs and urban stormwater runoff. Additional information for this segment of Hudson River can be found at https://www.dec.ny.gov/data/WQP/PWL/1301-0002.html . The segment of the Krum Kill receiving CSO discharges from the City of Albany is listed on the NYS 2018 303(d) as impaired for Aquatic Life due to unknown biological impacts of urban stormwater runoff and					
	CSOs. Additional information for this segment of Krum Kill can be found at https://www.dec.ny.gov/data/ WQP/PWL/1311-0004.html .					
Reporting Year Accomplishments:	Jackson/ Livingston is utilized to monitor flow meters. All CSC locations. In 2020, ti (LF) and CCTV'd 40, in areas prone to flo removed flows from pavement and sewer projects in the Arch miles of sewer as pawas started in early new pumps for two upgrades at pumps s	The City of Albany has five Floatables Control Facilities in the system (Orange St., Quackenbush Sq., Jackson/ Livingston St., Maiden Ln., and Steuben Ln.). Supervisory Control and Data Acquisition (SCADA) is utilized to monitor some CSS flows, utilizing 27 SmartCovers, 3 Flo-Dar meters, and 3 additional flow meters. All CSO signs were inspected in 2019 and tide gate installs/repairs were completed in 3 locations. In 2020, the City cleaned 275 catch basins and 70.22 miles of sewer, lined 11,567 linear feet (LF) and CCTV'd 40,281 LF of sewer. Stormwater modeling and flood mitigation studies were completed in areas prone to flooding. Construction of the Harriman Campus Pump Station was completed, which removed flows from the CSS and directed flows to the SSS. The Mereline Ave. Gl project (porous pavement and sewer separating in Island Creek CSS) was completed, along with other SSO mitigation projects in the Arch St. relief sewer. The City cleaned over 360,000 feet of sewer and separated 0.07 miles of sewer as part of the Westerlo St. project. Construction of the Beaver Creek Disinfection Facility was started in early 2021 and is on schedule for completion at the end of 2022. The City also purchased new pumps for two pump stations (Woodville and Northern Blvd.) in 2021 and plans to continue upgrades at pump stations in 2022 (Marlborough Ct. and Northern Blvd.). The City will also continue design for the constructed wetland installation on Hackett Blvd.				

Facility Info: City of Cohoe	es	SPDES Pern	nit #: NY0031046	PI	ant Flow: No WWTP
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current
	CSO outfalls:		17	14	14
Collection System:	Percentage of collection system that is combined:		100	100	100
Current info on CSO	Length of CSS (miles	s):	62	54	54
outfalls, overflows, volume capture, CSS	Average annual CSC	events:	15	14	22
area, population served	Average annual CSC	volume (MG):	-	-	13.13
	Population served by	y collection system:	16,193	16,193	16,193
	Number of satellite s	system connections:	0	0	0
Measurement Type for CSO Volume Discharges:	Modeled				
CSO Abatement Approach:	Presumptive Approa	ch			
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls
Receiving Water Info: 303(d), TMDL, Sensitive	Mohawk River	1201-0085	С	N	13
areas	Hudson River	1101-0002	А	Υ	1
Additional Waterbody	The segment of the Mohawk River receiving CSO discharges from the City of Cohoes is stressed for Aquatic Life, Recreation, and Habitat/Hydrology due to ammonia, nutrients, pathogens, and silt/sediment pollutants caused by urban stormwater runoff. Additional information for this segment of Mohawk River can be found at https://www.dec.ny.gov/data/WQP/PWL/1201-0085.html .				
Information:	The segment of the Hudson River receiving CSO discharges from the City of Cohoes is identified as precluded for Fish Consumption due to PCBs caused by contaminated sediment. The segment is also threatened for Water Supply and stressed for Public Bathing, suspected to be due to pathogens from municipal sources (POTWs, CSOs, and MS4s). Additional information for this segment of the Hudson River can be found at https://www.dec.ny.gov/data/WQP/PWL/1101-0002.html .				
Reporting Year Accomplishments:	The City owns the CSS, pump stations, and regulators, and as of 2021, maintains the regulators at "Little C," Garner St., N. Mohawk St., and Vliet St. A Continuous Deflection Separation (CDS) screening unit is installed at the N. Mohawk St. and Vliet St. regulators. In 2020, the City achieved 75% design of Project SSS-10 Columbia St. Phase 2 and received EPG funds for Project SSS-12 Vliet (engineering report submitted February 2021). The City also continued storm sewer buildout and completed separation of sewer at Sargent St. and Gl at Canal Sq. In 2021, the City submitted the design for SSS-12 to DEC and began construction of SSS-10. SSS-10 is expected to be completed in 2022. The City cleaned and/or inspected approximately 2,000 LF of sewer, finished separations on River St., and purchased 4 new pumps for pump stations.				

Facility Info: Village of Gre	en Island	SPDES Pern	nit #: NY0033031	Pl	ant Flow: No WWTP		
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current		
	CSO outfalls:		3	3	3		
Collection System:	Percentage of collect that is combined:	ction system	100	100	30		
Current info on CSO	Length of CSS (miles	s):	5	4	3.0		
outfalls, overflows, volume capture, CSS	Average annual CSC) events:	41	35	0		
area, population served	Average annual CSC) volume (MG):	4.60	4.20	0		
	Population served b	y collection system:	2,620	2,613	2,176		
	Number of satellite system connections:		0	0	0		
Measurement Type for CSO Volume Discharges:	Modeled	Modeled					
CSO Abatement Approach:	Presumptive Approa	ach					
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls		
Receiving Water Info: 303(d), TMDL, Sensitive areas	Hudson River	1301-0002	С	Y	3		
Additional Waterbody Information:	The segment of the Hudson River receiving CSO discharges from the City of Albany is listed on the NYS 2018 303(d) as impaired for Fish Consumption due to PCBs caused by contaminated sediment. Additionally, the segment of the Hudson River is also stressed for Aquatic Life, Recreation, Habitat/ Hydrology, and Aesthetics due to aesthetics (floatables) and pathogens caused by CSOs and urban stormwater runoff. Additional information for this segment of Hudson River can be found at https://www.dec.ny.gov/data/WQP/PWL/1301-0002.html .						
Reporting Year Accomplishments:	The Village of Green Island project). The	n Island completed a (Village anticipates co	D.5-mile sewer separa nducting a feasibility s	tion project in the fall study in 2022 for sepa rements at Pump Stati	ration of a 1.0-mile		

			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current	
	CSO outfalls:		8	7	6	
Collection System:	Percentage of collecthat is combined:	ction system	35.3	30	30	
Current info on CSO	Length of CSS (mile	s):	8	3.5	3.5	
outfalls, overflows, volume capture, CSS	Average annual CSC	O events:	52	45	37	
area, population served	Average annual CSC	O volume (MG):	2.50	2.06	4.5	
	Population served b	y collection system:	9,392	9,603	9,600	
	Number of satellite	system connections:	0	0	0	
Measurement Type for CSO Volume Discharges:	Modeled					
CSO Abatement Approach:	Presumptive Approa	ach				
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls	
Receiving Water Info: 803(d), TMDL, Sensitive areas	Hudson River	1301-0002	С	Y	6	
Additional Waterbody nformation:	The segment of the Hudson River receiving CSO discharges from the City of Rensselaer is listed on the NYS 2018 303(d) as impaired for Fish Consumption due to PCBs caused by contaminated sediment. Additionally, the segment of the Hudson River is also stressed for Aquatic Life, Recreation, Habitat/ Hydrology, and Aesthetics due to aesthetics (floatables) and pathogens caused by CSOs and urban stormwater runoff. Additional information for this segment of Hudson River can be found at https://www.dec.ny.gov/data/WQP/PWL/1301-0002.html . The segment of the Mill Creek receiving CSO discharges from the City of Rensselaer has no use					
	impairments. Additional information for this segment of Mill Creek can be found at https://www.dec.ny.gov/data/WQP/PWL/1301-0246.html .					
Reporting Year Accomplishments:	 ny.gov/data/WQP/PWL/1301-0246.html. In June 2020, the City sealed (weir removed) and fully separated the sewer upstream of CSO 003B. A of 2020, the City has completed all 5-year Plan projects and 50% of the 10-year Capital Improvement Plan (CIP), including replacement of 18,600 LF of sewer and the addition of 14,400 LF of storm sewer. The City also inspected 2,700 LF of sewer with CCTV and completed a Green Infrastructure Grant Program (GIGP) Project on East St. that included porous pavement and bio-retention (June 2020). The City also reprioritized separations and upgrade projects from their CIP, including: Close CSO 008/009 - Washington Ave. West (need to add Forbes Ave.), Central Ave., and Broadway North Close CSO 002 - Rensselaer Ave. Close CSO 03A - Second Ave., Mill Creek to Hudson River, Washington St./First Ave., and Third Ave. Close CSO 007 - Fowler Ave. In 2021, the City surveyed 1,800 LF of sewer, purchased a portable Mainline Crawler CCTV unit, and received an Engineering Planning Grant (EPG) for an engineering study for closure of CSOs 002, 008, 					

Facility Info: City of Troy		SPDES Pern	nit #: NY0099309	PI	ant Flow: No WWTP
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current
	CSO outfalls:		48	46	46
Collection System:	Percentage of collecthat is combined:	ction system	80	80	80
Current info on CSO	Length of CSS (mile	s):	137	132	130
outfalls, overflows, volume capture, CSS	Average annual CSC	D events:	65	65	70
area, population served	Average annual CSC) volume (MG):	447	207	447
	Population served b	y collection system:	50,129	50,065	50,129
	Number of satellite	system connections:	3	3	3
Measurement Type for CSO Volume Discharges:	Modeled				
CSO Abatement Approach:	Presumptive Approa	ach			
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls
Receiving Water Info: 303(d), TMDL, Sensitive areas	Hudson River	1301-0002	С	Υ	46
Additional Waterbody Information:	The segment of the Hudson River receiving CSO discharges from the City of Troy is listed on the NYS 2018 303(d) as impaired for Fish Consumption due to PCBs caused by contaminated sediment. Additionally, the segment of the Hudson River is also stressed for Aquatic Life, Recreation, Habitat/ Hydrology, and Aesthetics due to aesthetics (floatables) and pathogens caused by CSOs and urban stormwater runoff. Additional information for this segment of Hudson River can be found at https://www.dec.ny.gov/data/WQP/PWL/1301-0002.html .				
Reporting Year Accomplishments:	yet to be designed of Rehabilitation Phase	or constructed are the e II. In 2021, the City u	· Van Buren St. stream	tion project. Additionant separation and Cros Rensselaer County and project in 2022.	s St. Trunk Sewer

Facility Info: City of Water	/liet	SPDES Perm	nit #: NY0030899	Pla	ant Flow: No WWTP
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current
	CSO outfalls:		5	5	5
Collection System:	Percentage of collect that is combined:	ction system	100	100	100
Current info on CSO	Length of CSS (miles	s):	14	14	14
outfalls, overflows, volume capture, CSS	Average annual CSC) events:	44	10	24
area, population served	Average annual CSC) volume (MG):	4.80	2.20	0.118
	Population served b	y collection system:	10,254	10,233	10,233
	Number of satellite	system connections:	2	2	2
Measurement Type for CSO Volume Discharges:	Modeled				
CSO Abatement Approach:	Presumptive Approa	ach			
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls
Receiving Water Info: 303(d), TMDL, Sensitive areas	Hudson River	1301-0002	С	Y	5
Additional Waterbody Information:	The segment of the Hudson River receiving CSO discharges from the City of Watervliet is listed on the NYS 2018 303(d) as impaired for Fish Consumption due to PCBs caused by contaminated sediment. Additionally, the segment of the Hudson River is also stressed for Aquatic Life, Recreation, Habitat/ Hydrology, and Aesthetics due to aesthetics (floatables) and pathogens caused by CSOs and urban stormwater runoff. Additional information for this segment of Hudson River can be found at https://www.dec.ny.gov/data/WQP/PWL/1301-0002.html .				
Reporting Year Accomplishments:	weir heights at multi pits, and 3 rain gard is expected to be co	ple CSOs. The City cleens in 2020. The City onstructed over the ne	eaned 49 catch basin is also currently unde ext two years. Phase 1	npleted in 2017, includes, 3 floatable control forway with a CSO separate of the project began is City cleaned or inspe	acilities, 39 tree aration project that n 2022 and Phase

All Other CSO LTCPs

Table 7 – All other CSO LTCPs						
CSO Permittee Name	SPDES #	No. of Outfalls				
Amsterdam (C)	NY0020290	3				
Auburn (C)	NY0021903	6				
Binghamton (C)	NY0024406	9				
Buffalo Sewer Authority (BSA) - Bird Island WWTF	NY0028410	52				
Canastota (V)	NY0029807	2				
Catskill (V)	NY0020389	4				
Chemung County (Chemung County - Elmira S.D.)	NY0035742	7				
Clayton (V)	NY0027545	2				
Dunkirk (C)	NY0027961	1				
Glens Falls (C)	NY0029050	1				
Gouverneur (V)	NY0020117	1				
Hudson (C)	NY0022039	7				
Johnson City (V)	NY0023981	2				
Kingston (C)	NY0029351	4				
Little Falls (C)	NY0022403	3				
Lockport (C)	NY0027057	10				
Massena (V)	NY0031194	10				
Medina (V)	NY0021873	9				
Monroe County (Frank E. Van Lare STP)	NY0028339	20				
Newburgh (C)	NY0026310	13				
Niagara Falls Water Board	NY0026336	6				
Ogdensburg (C)	NY0029831	17				
Onondaga County - Syracuse Metro WWTP	NY0027081	46				
Oswego (C) - East Side	NY0029114	1				
Oswego (C) - West Side	NY0029106	2				
Plattsburgh (C)	NY0026018	11				
Poughkeepsie (C)	NY0026255	5				
Target Hill WWTP	NY0023761	1				
Ticonderoga (T)	NY0036706	1				
Utica (C)	NY0031429	35				
Washington County	NY0183695	10				
Waterford (T)	NY0029173	2				
Watertown (C)	NY0025984	9				
Westchester County – Yonkers	NY0026689	13				
TOTAL		325				

Facility Info: City of Amste	rdam	SPDES Pern	nit #: NY0020290	PI	ant Flow: 10.0 MGD	
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current	
	CSO outfalls:		3	3	3	
Collection System:	Percentage of collect that is combined:	ction system	17.7	10.6	10.6	
Current info on CSO	Length of CSS (miles	s):	12.5	7.6	7.6	
outfalls, overflows, volume capture, CSS	Average annual CSO events:		18	5	8	
area, population served	Average annual CSO volume (MG):		NA	9.6	2.717	
	Population served by collection system:		18,620	17,844	17,844	
	Number of satellite system connections:		4	4	4	
Measurement Type for CSO Volume Discharges:	J .	f Amsterdam flow me	nd analyzing flow meto ter, the Village of Hag	,		
CSO Abatement Approach:	Presumptive Approa	Presumptive Approach				
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls	
Receiving Water Info: 303(d), TMDL, Sensitive areas	Mohawk River	1201-0087	С	N	3	

Facility Info: City of Amste	rdam SPDES Permit #: NY0020290	Plant Flow: 10.0 MGD
Additional Waterbody Information:	The segment of the Mohawk River receiving CSO discharges from the City of An Aquatic Life and Recreation due to suspected nutrient and silt sediment pollution and urban stormwater runoff. Additional information for this segment of Mohawk https://www.dec.ny.gov/data/WQP/PWL/1201-0087.pdf .	n, caused by agriculture
	The LTCP identified Riverfront Park, which is located downstream of the West Sic Pumping stations, as a sensitive area due to potential impact to boating and fish	
	The LTCP was approved on 7/5/2007 for reducing CSO events to a level that me Approach, which requires the City to reduce overflows to no more than six even	•
LTCP Info:	LTCP Findings and Recommendations: CSO investigations revealed several cross storm and sanitary sewers and inflow contributing from catch basins and neighbor The CSO control recommendations include flow reduction and/or elimination three mergency generators, and controls at three pump stations; upgrading the WW weather flows; and addressing serious I/I issues due to cross-connections.	ooring municipalities. Tough upgrading pumps,
Dates submitted and approved, Issues, Approach, Status	Recommended Approach to Control CSO Discharges: The City plans to correct use the Presumptive Approach to control and monitor CSO events. Under this a intends to limit CSO events to no more than six events annually that do not rece Additionally, the City intends to reduce and/or eliminate CSO discharges through projects, pump station upgrades, emergency generator installation at the three WWTP upgrades to handle wet weather flows more effectively. The City also into I/I issues due to cross-connections. The permittee also plans to eliminate CSO deark, which was identified as a sensitive area, to increase boating and fishing on	pproach, the City vive minimum treatment. h sewer separation pump stations, and ends to address serious lischarges to Riverfront
	Approved Controls Include: All recommended controls were approved.	
PCCM: Status	The City submitted a PCCM Plan to DEC on 8/21/2016. DEC approved the PCCM conducted in 2020, but due to the COVID-19 pandemic and the ongoing disinfer was continued through the 2021 recreational season.	
Implementation Status:	On 12/31/2017, the City of Amsterdam submitted a final CSO report stating it has identified under the LTCP and is currently meeting EPA's Presumptive Approach which requires "the elimination or the capture for treatment of no less than 85% combined sewage collected in the combined sewer system during precipitation wide annual average basis." On 9/7/2019, CSO 003 at the South Side Pump Stat eliminated because all remaining combined-sewer upstream was allegedly prev 2021, the City and DEC staff conducted a dye study within the SSPS sewershed an SSS. The study found that two catch basin cross-connections remain, and the considered combined. In 2021, the City completed projects with WWTP disinfect equipment upgrades at both the South Side Pump Station and the West Side Pu work required by the LTCP has been completed and recurring PCCM shall continuation.	CSO Control Policy, by volume of the events on a system- tion was considered iously separated. In May to verify the status as e system should still be tion construction and imp Station. To date, all

Facility Info: City of Auburn		SPDES Pern	nit #: NY0021903	P	ant Flow: 12.0 MGI
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current
	CSO outfalls:		35	6	6
Collection System:	Percentage of collect that is combined:	ction system	15	15	15
Current info on CSO	Length of CSS (mile	s):	15	15	15
outfalls, overflows, volume capture, CSS	Average annual CSC	O events:	NA	15	19
area, population served	Average annual CSO volume (MG):		NA	108	211.9
	Population served by collection system:		33,000	29,000	27,000
	Number of satellite system connections:		13	13	16
Measurement Type for CSO Volume Discharges:	Modeled				
CSO Abatement Approach:	Presumptive Approa	ach			
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls
Receiving Water Info: 303(d), TMDL, Sensitive	Hunter Brook (Cold Spring/ North Brook)	0701-0038	С	N	1
areas	Owasco Lake Outlet	0706-0001	С	N	5

Facility Info: City of Aubur	n SPDES Permit #: NY0021903	Plant Flow: 12.0 MGD
Additional Waterbody	The segment of the Hunter Brook receiving CSO discharges from the City of Aquatic Life and Recreation due to nutrients caused by agriculture. Additional segment of Hunter Brook can be found at https://www.dec.ny.gov/data/WQP	al information for this
Information:	The segment of the Owasco Lake Outlet receiving CSO discharges from the for Aquatic Life and Recreation due to nutrients caused by CSOs, municipal of stormwater runoff, and agriculture. Additional information for this segment of found at https://www.dec.ny.gov/data/WQP/PWL/0706-0008.html .	discharges, urban
	The permittee entered into a Consent Order agreement with DEC in 1989, who of milestones for corrective actions. The City selected a plan which, by way of improvements and high-rate treatment at the WTTP, would ensure the CSO of at a maximum of four times per year. The LTCP was approved on 8/1/1995.	of collection system
LTCP Info: Dates submitted and	<u>LTCP Findings and Recommendations:</u> An I/I study identified that some areas improvements to reduce sewer surcharging. Additionally, upgrades at the contraction and the WWTP influent sewers were identified.	
approved, Issues, Approach, Status	Recommended Approach to Control CSO Discharges: Recommended CSO a centralized high-rate treatment facility to be located at the treatment plant for solids removal followed by chlorination/dichlorination capability, and a central be located within the WWTP to store excess wet weather flows. The final CSO 8/1/1995.	r floatables and settleable alized storage facility to
	Approved Controls Include: Recommended controls were approved consiste	ent with the Consent Order.
PCCM: Status	No PCCM has been submitted. However, permittee continues to monitor CSC and duration.	O flow volume, frequency,
	The City has constructed new relief sewers, enforced its sewer use ordinance tanks for use as high-rate treatment, constructed a 6.5 MG CSO retention factor concentrators with chlorination/dichlorination capabilities, sealed and bulk-homogeneous constructed 7 miles of relief sewers and interceptors. Other completed CSO sewer upgrades to relieve surcharge of sewer during heavy rain and intercepton confluence of WWTP influent lines and the interceptor.	cility, installed 4 CSO swirl eaded 31 CSO outfalls, and projects include sanitary
Implementation Status:	Furthermore, the City continues to implement the 15 CSO BMPs listed in its S designed to utilize scheduled Operations & Maintenance (O&M) procedures, treatment facility and collection system to the maximum extent practicable, a impacts from CSOs. The fat, oil, and grease (FOG) program has been proacti inspections and emulsifier flushing of sewer lines. The Industrial Pretreatmer permit, inspect, and monitor non-domestic dischargers, and in 2014, the roac	employ the existing and minimize water quality ve in restaurant grease trap at Program continues to
	In 2019, a full-time plumbing inspector was hired to coordinate the grease tramaintenance cover was replaced for the swirl concentrator at CSO 029A for expansion of the WWTP UV disinfection system was completed (now five MG Study was completed. The CSO Engineering Study assessed existing CSO in several improvement projects to upgrade existing CSO controls and continue In 2021, sewer flow meters were replaced at the borders of the City and neighbor.	ease of access. In 2020, an GD) and a CSO Engineering offrastructure and evaluated e sewer separation efforts.

Facility Info: City of Bingh	amton	SPDES Pern	nit #: NY0024406	PI	ant Flow: No WWTP
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current
	CSO outfalls:		26–45	8	9
Collection System:	Percentage of collect that is combined:	ction system	60	40	40
Current info on CSO	Length of CSS (miles	s):	NA	11.4	445.93
outfalls, overflows, volume capture, CSS	Average annual CSC	D events:	NA	NA	27
area, population served	Average annual CSO volume (MG):		NA	NA	475.66
	Population served by collection system:		49,000	47,380	47,380
	Number of satellite system connections:		NA	NA	7
Measurement Type for CSO Volume Discharges:			6Os, 001–005. The reree reported no dischal		•
CSO Abatement Approach:	Presumptive Approa	ach			
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls
Receiving Water Info:	Chenango River	0602-0033	В	Υ	1
303(d), TMDL, Sensitive areas	Susquehanna River	0603-0002	А	Υ	8

Facility Info: City of Bingh	amton	SPDES Permit #: NY0024406	Plant Flow: No WWTP
	for Fish Consumption d not listed on the NYS 2 developed to address a the segment of the Che	enango River receiving CSO discharges from lue to metals (mercury) caused by atmosphel 018 303(d) because a TMDL (EPA's Northeas atmospheric deposition of mercury in New Yo enango River is also stressed for Aquatic Life	ric deposition. This segment is st Mercury TMDL, 2007) has been ork State waterbodies. Additionally, and Recreation due to suspected
Additional Waterbody	Additional information f WQP/PWL/0602-0033.	or this segment of Chenango River can be fond the segment of Chenango River can be for the segment of the segme	ound at https://www.dec.ny.gov/data/
Information:	impaired for Recreation 303(d). The Recreation	squehanna River receiving CSO discharges f n, Aquatic Life, and Fish Consumption. This so and Aquatic Life-use impairments are cause butions from the Binghamton-Johnson City V	egment is not listed on the NYS 2018 and by excess nutrients and low DO
	which was developed t	impairment is addressed through a TMDL (EF o address atmospheric deposition of mercur for this segment of the Susquehanna River ca (0603-0002.html).	ry in New York State waterbodies.
LTCP Info: Dates submitted and approved, Issues, Approach, Status	Presumptive Approach monitoring/surveillance The final version of this 3/13/2002. Construction improvements to Penns was completed 6/30/20 wet weather flow, meet The Binghamton-Johns caused by Tropical Stor	P was not required because the permittee we prior to EPA CSO Control Policy. On 2/29/19 to report that included recommendation for Present was approved on 10/13/2000. The engineer of CSO improvement projects, which includes sylvania Ave., began on 3/1/2002. Construction 3.8 By completing construction, the City of liting the CSO Presumptive Approach. Phase I on City WWTP was being reconstructed due arm Lee (2011). Construction was completed in that led to continued need for plant upgrade	1999, the permittee submitted a CSO resumptive Approach to CSO controls. From this was approved ded floatable control facilities and ion of CSO improvement projects Binghamton can capture 85% of the III consists of the WWTP upgrades. To damage from extreme flooding in 2020, however, as stated in Table 3,
	LTCP Findings and Rec	ommendations: No LTCP development was r	required.
	Recommended Approa	<u>ich to Control CSO Discharges:</u> In accordanc	ce with the preceding findings.
PCCM: Status	monitoring requiremen	proved on 3/1/2010. The SPDES permit has be ts to confirm controls effectiveness. Due to c wingly poor water quality, PCCM was deferre	catastrophic structural failure of the
Implementation Status:	system and continues t policies. In 2019, 0.06 r evaluated and upgrade	e treatment plant, the City of Binghamton co to follow the CSO BMP's requirements in accomile was separated between Rotary Ave. and and the Glenwood St. and Bevier St. pump state aling 0.78 mile, on Ely St., Robinson St., Hugh	ordance with State and Federal d Seminary Ave. In 2020, the City tions, while also completing 6

Facility Info: Buffalo Sewe	r Authority (BSA) Bird	d Island WWTP	SPDES Permit	#: NY0028410	Plant Flow: 180 MGD		
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current		
	CSO outfalls:		65	52	52		
Collection System:	Percentage of collect that is combined:	ction system	92	92	92		
Current info on CSO	Length of CSS (miles	s):	790	790	790		
outfalls, overflows, volume capture, CSS	Average annual CSC) events:	85	9	35		
area, population served	Average annual CSC) volume (MG):	1,886	486	2601.01		
	Population served b	y collection system:	292,648	261,310	278,349		
	Number of satellite system connections:		7	7	7		
Measurement Type for CSO Volume Discharges:	Modeled	Modeled					
CSO Abatement Approach:	Presumptive Approa	ach					
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls		
	Black Rock Canal	0101-0025	С	Y	12		
	Buffalo Harbor*	0104-0032	С	Y	4		
	Buffalo River	0103-0001	С	Y	16		
Receiving Water Info:	Cazenovia Creek	0103-0009	В	N	11		
303(d), TMDL, Sensitive areas	Cornelius Creek	0101-0032	-	-	1		
	Niagara River	0101-0006	A-Special	Y	2		
	Scajaquada Creek	0101-0033	С	Y	6		
		*Includes	Erie Basin and Erie B	Basin Slip			

The segment of the Black Rock Canal receiving CSO discharges from the BSA is listed on the NYS 2018 303(d) as impaired for Fish Consumption due to PCBs caused by contaminated sediment. Additional information for this segment of Black Rock Canal can be found at https://www.dec.ny.gov/data/WQP/PWL/0101-0025.pdf.

The segment of the Buffalo Harbor (Lake Erie Shoreline) receiving CSO discharges from the BSA is listed on the NYS 2018 303(d) as impaired for Fish Consumption due to PCBs caused by contaminated sediment. Additional information for this segment of Buffalo Harbor can be found at https://www.dec.ny.gov/data/WQP/PWL/0104-0032.html.

The segment of the Buffalo River receiving CSO discharges from the BSA is listed on the NYS 2018 303(d) as precluded for Fish Consumption due to PCBs caused by contaminated sediment. The segment is also stressed for Recreation due to low DO, pathogens, and silt/sediment caused by urban stormwater runoff. Additional information for this segment of Buffalo River can be found at https://www.dec.ny.gov/data/WQP/PWL/0103-0001.html.

Additional Waterbody Information:

The segment of the Cazenovia Creek receiving CSO discharges from the BSA is stressed for Public Bathing and Recreation and threatened for Aquatic Life due to pathogens caused by other non-permitted sanitary discharges. Additional information for this segment of Cazenovia Creek can be found at https://www.dec.ny.gov/data/WQP/PWL/0103-0009.html.

The segment of Cornelius Creek receiving CSO discharges from BSA is unassessed, and no water quality information exists.

The segment of the Niagara River receiving CSO discharges from the BSA is listed on the NYS 2018 303(d) as impaired for Fish Consumption due to PCBs caused by contaminated sediment. Additional information for this segment of Niagara River can be found at https://www.dec.ny.gov/data/WQP/PWL/0101-0006.pdf.

The segment of the Scajaquada Creek receiving CSO discharges from the BSA is listed on the NYS 2018 303(d) as precluded for Aquatic Life and impaired for Recreation due to aesthetics (floatables), low DO, nutrients, and pathogens, caused by other non-permitted sanitary discharges and urban stormwater runoff. Additional information for this segment of Scajaquada Creek can be found at https://www.dec.ny.gov/data/WQP/PWL/0101-0033.html

LTCP Info:

Dates submitted and approved, Issues, Approach, Status LTCP Findings and Recommendations: Findings showed exceedances of DO, fecal coliform bacteria, and dissolved zinc. Background fecal coliform bacteria counts were observed to exceed WQS at various receiving waterbody sampling locations included in the monitoring program. WQ analysis revealed that a uniform level of CSO control for all waterbodies receiving CSO discharges from BSA would be neither cost-effective nor necessary to meet WQS for each waterbody due to the extremely varied nature of the CSO receiving waterbodies.

Recommended Approach to Control CSO Discharges: Proposed controls include weir modifications, real-time controls, GI, storage, treatment upgrades. The recommended plan will require all receiving waterbodies to meet or exceed the Presumptive Approach of four to six events per year, apart from the Niagara River (nine events per year). Additionally, the EPA order required BSA to submit a PCCM Plan, which was submitted in December 2015. More information regarding the LTCP can be found at https://buffalosewer.org/about/transparency/.

PCCM:

Status

The BSA PCCM was approved on 3/1/2016.

Implementation Status:

The approved LTCP uses a balance of traditional gray infrastructure and innovative green solutions. The approved LTCP will have a probable project cost of \$380 million and will be implemented over a 20-year period. The LTCP was approved in 2014 and is in the early stages of implementation with expected completion in March 2034. In 2019, the City of Buffalo continued several proactive sewer maintenance activities (cleaning and repair) and construction of several Real Time Control (RTC) and GI projects. A report on the recalibration of CSS model using a modified typical year was also submitted in 2019 and is currently under review by DEC and EPA. Several LTCP projects are underway to optimize regulator controls and design of other projects is either underway or was in 2020.

In 2021, several LTCP projects were completed, including construction of Smith at Eagle RTC and Babcock Pumping Station RTC, Niagara Street Phase 3, and the commencement of Niagara Street Phase 4A. Several LTCP projects are ongoing, and the Authority recently submitted the Basis of Design Report (BODR) for Phase II WWTP Upgrades under the LTCP.

Facility Info: Village of Canastota		SPDES Pern	nit #: NY0029807	Plant Flow: 2.00 MGD			
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current		
Collection System: Current info on CSO outfalls, overflows, volume capture, CSS area, population served	CSO outfalls:		2	2	2		
	Percentage of collection system that is combined:		85	85	15		
	Length of CSS (miles):		7.67	7.67	3.92		
	Average annual CSO events:		3	2	3		
	Average annual CSO volume (MG):		12.50	3.85	6.41		
	Population served by collection system:		5,300	5,300	5,300		
	Number of satellite system connections:		8	8	8		
Measurement Type for CSO Volume Discharges:	Metered						
CSO Abatement Approach:	Presumptive Approach						
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls		
Receiving Water Info: 303(d), TMDL, Sensitive areas	Canastota Creek	0703-0002	С	Y	1		
	Cowaselon Creek	1301-0246	С	N	1		
Additional Waterbody Information:	on the NYS 2018 303(d) as impaired for Aquatic Life and Recreation due to low DO and pathogens caused by CSOs. Additionally, the segment of the Canastota Creek is also stressed for Aesthetics due to floatables from CSOs. Additional information for this segment of Canastota Creek can be found at https://www.dec.ny.gov/data/WQP/PWL/0703-0002.html . The segment of the Cowaselon Creek receiving CSO discharges from the Village is stressed for Habitat/ Hydrology due to silt/sediment caused by habitat and hydrology modification. Additional information for this segment of Cowaselon Creek can be found at https://www.dec.ny.gov/data/WQP/PWL/0703-0093.html .						
	LTCP was approved on 3/29/2007.						
LTCP Info: Dates submitted and approved, Issues, Approach, Status	LTCP Findings and Recommendations: On 2/13/2006, the Village of Canastota entered into an Order on Consent (Case # R7-20050412-23) with DEC for failing to bring CSOs within its sewer system into compliance with the EPA CSO Control Policy.						
	Recommended Approach to Control CSO Discharges: CSO Controls include: increase pump station capacity from 2.0 MGD to 4.1 MGD, construct a 750,000-gallon retention basin at the pump station, install grit removal and an automated bar screen at the pump station to maintain capacity and eliminate flow restriction, increase primary treatment capacity at the WWTP to twice the permitted flow from 2.0 to 4.0 MGD, increase secondary treatment capacity at the WWTP to 1.5 times permitted flow from 2.0 MGD to 3.0 MGD, and increase capacity of the primary clarigesters to 4.1 MGD.						
	Approved Controls Include: Approved controls include upgrade of WWTP headwork components to increase flows to the plant. Since the remaining discharges might still result in the exceedances of WQS, permittee will incorporate CSO controls with its obligations under the Chesapeake Bay Watershed Initiative (CBWI).						
PCCM: Status	PCCM requirements are identified in the Village's SPDES Permit. Permittee continues to have few to no CSO events since completion of the LTCP projects and closure of the Order on Consent.						
Implementation Status:	The Village constructed a new headworks facility including pumping capacity for 5.0 MGD influent transfer to the WWTP and a CSO storage tank with a 750,000-gallon capacity. The new headworks and storage system has been online since 2012. In 2019, there were five overflow events from CSO 002 and only three events in 2021. Accordingly, the new facility has effectively reduced the number of CSO's from 60-plus per year to less than 4–6 events annually as per the LTCP goals.						

Facility Info: Village of Cat	tskill	SPDES Pern	SPDES Permit #: NY0020389		Plant Flow: 1.55 MGD		
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current		
Collection System: Current info on CSO outfalls, overflows, volume capture, CSS area, population served	CSO outfalls:		25	0	4		
	Percentage of collection system that is combined:		75	-	18		
	Length of CSS (miles):		-	-	3.24		
	Average annual CSO events:		25	0	7		
	Average annual CSO volume (MG):		-	0	0.759		
	Population served by collection system:		4,690	-	3,286		
	Number of satellite system connections:		1	1	1		
Measurement Type for CSO Volume Discharges:	Metered						
CSO Abatement Approach:	Demonstrative Approach						
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls		
Receiving Water Info: 303(d), TMDL, Sensitive areas	Catskill Creek	1309-0010	С	Unassessed	4		
Additional Waterbody Information:	The segment of the Catskill Creek receiving CSO discharges from the Village of Catskill is unassessed and thus not listed on the NYS 2018 303(d).						
LTCP Info: Dates submitted and approved, Issues, Approach, Status	The Village originally submitted an LTCP on 12/24/2012, which was determined to be incomplete. An Order on Consent executed 9/20/2016 required a revised approvable LTCP to be submitted within six months. The LTCP was submitted in April 2017 and, following significant discussion and comment from DEC, was ultimately approved on 9/12/2018. The primary goal of the LTCP will be to eliminate all CSO overflow events responsibly and fiscally by 12/31/2026. This will be achieved through projects including installation of tidal check valves, increasing weir heights/pipe, and sewer separation to a point where the Village can responsibly permanently seal off the CSO outfalls. The PCCM Plan was submitted and approved in 2019. Baseline sampling was conducted in 2019. PCCM sampling will be conducted annually for the next three years. Initial review of the baseline results indicates the presence of potential upstream sources and/or natural tidal stream conditions that may require a modification to the PCCM Plan in future years.						
PCCM: Status	PCCM requirements are identified in the Village's SPDES Permit. Permittee reported that there have been no overflows since completion of the CSO and WPCP upgrades and closure of the Consent Order.						
Implementation Status:	The Village has already completed several LTCP projects, including the raising of weir heights at the three CSOs with weirs (completed by mid-2020), raising the elevated pipe at CSO 007A, and installing tidal check valves at three CSOs. The Village also completed installation of the automatic mechanical bar screen at the WWTP headworks in 2020. Several additional LTCP projects, primarily sewer separations, will occur throughout the remainder of the LTCP implementation as the Village seeks to achieve full separation and elimination of the CSOs through 2026. In 2021, the Village CCTV'd the collection system and purchased three SmartCover flow meters for I/I monitoring.						

Facility Info: Chemung County (Chemung County - Elmira S.D.)			SPDES Permit #: NY0035742 P		lant Flow: 28.2 MGD		
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current		
Collection System: Current info on CSO outfalls, overflows, volume capture, CSS area, population served	CSO outfalls:		10	10	7		
	Percentage of collection system that is combined:		65	65	65		
	Length of CSS (miles):		90	105	105		
	Average annual CSO events:		80	-	19		
	Average annual CSO volume (MG):		-	-	15		
	Population served by collection system:		35,000	35,000	35,000		
	Number of satellite system connections:		0	0	0		
Measurement Type for CSO Volume Discharges:	Not available						
CSO Abatement Approach:	Presumptive Approach						
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls		
Receiving Water Info: 303(d), TMDL, Sensitive areas	Chemung River	0501-0015	С	N	6		
	Newtown Creek	0501-0003	С	N	1		

Facility Info: Chemung Co	unty (Chemung County - Elmira S.D.)	SPDES Permit #: NY0035742	Plant Flow: 28.2 MGD			
Additional Waterbody	The segment of the Chemung River receiv no known impacts. Additional information www.dec.ny.gov/data/WQP/PWL/0501-001 The segment of the Newtown Creek received.	or this segment of Chemung River ca 6.html	n be found at https://			
Information:	stressed for Aquatic Life due to nutrients a Additional information for this segment of I WQP/PWL/0501-0003.html.	nd unknown toxicity caused by urban	stormwater runoff.			
	In May 2007, the County submitted a repo Modeling Report. Subsequently, on 11/13/2 Term Control Plan. The plan was approved	009, the County submitted the Phase				
LTCP Info: Dates submitted and approved, Issues, Approach, Status	LTCP Findings and Recommendations: Hig in the Chemung River resulting in occasior reviews and resubmissions, DEC approved would integrate the ongoing CBWI project request to submit the plan after the permit obligations under the CBWI.	nal exceedances of fecal coliform stan I the LTCP report but asked the permits s with CSO abatement by 5/1/2013. DE	dards. After a series of ttee to submit a plan that EC granted an extension			
	Approved Controls Include: Upgrade of W Since the remaining discharges might still CSO controls with its obligations under the	result in the exceedances of WQS, pe	·			
	In accordance with the 2021 permit, the Coplanned consolidation of the County SD#1 addendum in March 2022, which is curren	WWTP with the Elmira WWTP. The Co				
PCCM: Status	A Revised PCCM Plan is due June 1, 2024.					
Implementation Status:	Permittee reported that the system currently captures 88% of the estimated annual average storm events. To maximize flows to treatment plant the permittee reported it has completed several repairs to the bar screens units at the treatment plant. The permittee replaced the bar racks on all three units and replaced the rake mechanism on two of the three screening units. Material cost for the repairs was approximately \$75,000. The repairs now allow higher wet weather flows through the treatment plant. Additionally, the permittee also conducts routine street sweeping throughout the year. This practice reduces grit and garbage being discharged in a storm event. No major CSO work was conducted in					

Facility Info: Village of Clayton		SPDES Permit #: NY0027545			Plant Flow: 1.10 MGD	
				After CSO BMP/LTCP Implementation	Current	
	CSO outfalls:		3	0	2	
Collection System:	Percentage of collect that is combined:	tion system	100	20	20	
Current info on CSO	Length of CSS (miles	s):	9.50	9.50	9.50	
outfalls, overflows, volume capture, CSS	Average annual CSC	events:	18	0	1	
area, population served	Average annual CSC	volume (MG):	1.33	0	0.146	
	Population served by	y collection system:	2,021	2,021	2,718	
	Number of satellite s	system connections:	0	1	1	
Measurement Type for CSO Volume Discharges:	Modeled	1odeled				
CSO Abatement Approach:	Presumptive Approa	ch				
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls	
Receiving Water Info: 303(d), TMDL, Sensitive areas	Saint Lawrence River	0901-0004	A-Special	Y	2	
Additional Waterbody Information:	on the NYS 2018 303 PCBs, and priority or	3(d) as impaired for A ganics (dioxin) cause	quatic Life and Fish C d by toxic/contaminat	arges from the Village consumption due to pe ed sediment. Addition ww.dec.ny.gov/data/W	esticides (mirex), al information for	
LTCP Info: Dates submitted and approved, Issues, Approach, Status	The final CSO LTCP was approved on 11/19/2012. LTCP Findings and Recommendations: Permittee concluded that CSO discharges were mostly due to infiltration during snowmelt and rainfall conditions, and during high groundwater table elevations. The LTCP shows that the permittee is achieving up to 95% wet weather volume capture or more, which meets or exceeds the Presumptive Approach under the EPA CSO Control Policy. Recommended Approach to Control CSO Discharges: Removal of excessive I/I; diversion of flow away from the Riverside Pump Station; increasing capacity to the existing pump stations; and diverting flows from the East Union St. Pump Station. Approved Controls Include: Recommended controls include removing or redirecting extraneous I/I sources, continuing flow monitoring and sewer inspection program to identify sources, and developing remedial measures to eliminate sources.					
PCCM: Status	Not relevant. The Village of Clayton permanently closed its permitted CSOs in 2015. See below.					
Implementation Status:	events are still a con utilize a pump-aroun capped CSO outfall listed in the SPDES p basis. The Village hin engineering report for WWTP. Based on the address the hydrauli anticipated by Decei	cern and result in cord system to relieve we pipes). Since the collection of the collection of the collection of the collection of the completing recommendation of the completing report, of loading at the WWT mber 2022. Following	ntinued CSO discharg yet well capacity and of ection system is still co- yed these infrequent of rm in spring 2018 to u mended improvement the Village is proceed TP and the CSOs in the g completion of this pa	cSOs in 2015; however es at two of the three discharge to the same ombined and the CSO discharges to occur or pdate its LTCP and design in the Village's colleding with an \$11.2 milling collection system. Peroject, the CSO outfall no longer be considered.	locations (operators location as the outfalls are still a a temporary velop a preliminary ction system and on upgrade that will roject completion is s will no longer be	

Facility Info: City of Dunki	rk	SPDES Pern	nit #: NY0027961	P	Plant Flow: 6.0 MGD	
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current	
	CSO outfalls:		1	1	1	
Collection System:	Percentage of collect that is combined:	tion system	50	45	45	
Current info on CSO	Length of CSS (miles	·):	NA	NA	20	
outfalls, overflows, volume capture, CSS	Average annual CSC	events:	5	5	21	
area, population served	Average annual CSC	volume (MG):	27	30	57.6	
	Population served by	collection system:	12,900	12,400	12,400	
	Number of satellite s	ystem connections:	1	1	2	
Measurement Type for CSO Volume Discharges:	Metered	Metered				
CSO Abatement Approach:	Presumptive Approa	ch				
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls	
Receiving Water Info: 303(d), TMDL, Sensitive areas	Lake Erie	0105-0009	В	Y	1	
Additional Waterbody Information:	303(d) as impaired for caused by other san	or Public Bathing, Fish itary discharges, toxio dditional information	n Consumption, and R c/contaminated sedim	city of Dunkirk is listed ecreation due to PCB: ent, unknown sources ke Erie can be found	s and pathogens s, and urban	
LTCP Info:	LTCP Findings and Recommendations: The only permitted outfall serves both the WWTP and CSO discharges. During any significant storm event, when flows exceed the hydraulic capacity of the wet well, the City bypasses CSOs around the facility and combines the CSO flows with WWTP treated effluent via the outfall. The report concluded that CSO discharge reductions will be handled at the treatment plant through plant upgrades. The report also concluded that additional testing was needed to confirm the integrity of the Lake Shore Dr. and Lake Shore Blvd. collector pipes.					
Dates submitted and approved, Issues, Approach, Status	Recommended Approach to Control CSO Discharges: The City is meeting the Presumptive Approach based on an average of 95.6% combined sewage being treated at the WWTP. Recommended plan includes plant upgrade, monitoring, and dye-testing of the remaining collection pipes. The result of the dye study was submitted on 5/28/2008.					
	weather conveyance	system certification		ade and submission o Idition, there is a 2-MG ner flows.		
PCCM: Status	A new PCCM Plan is to be developed, per the 2022 SPDES permit, by December 2022. Dunkirk follows EPA's guideline for the Presumptive Approach, under the criteria of the elimination or capture for treatment of no less than 85% by volume of the combined sewage collected in the CSS during precipitation events, on a system-wide annual average basis. Dunkirk's SPDES permit requires monitoring CSO events which are reported on a monthly performance report, and additional monitoring of lake samples are recorded if lake conditions allow sampling.					
Implementation Status:	NY's 15 CSO BMPs (w possible. In 2019, Dun flows. CSO events are plan was approved in worked with two SIUs City is underway with in design for pumping	Dunkirk is already in compliance with EPA's Presumptive Approach. In addition, Dunkirk continues to implement NY's 15 CSO BMPs (which correspond to EPA's 9 CSO BMPs) and conducts sewer separation whenever possible. In 2019, Dunkirk installed telemeters to monitor CSO flows from the wet well and secondary bypass flows. CSO events are pumped from the wet well and blended with the WWTP effluent. A corrective action plan was approved in 2019 due to WWTP settleable solids issues resulting from wet weather events. The City worked with two SIUs to replace sewer connections to the WWTP and improve pretreatment. Since 2020, the City is underway with upgrades to the WWTP blowers, aeration diffusers, and SCADA. Further, the City is also in design for pumping improvements (influent and CSO). The City plans to fully integrate all pumps (pump stations included) into the WWTP SCADA. No new separation projects were completed, but a new Overflow,				

Facility Info: City of Glens Falls SPDES Pern		nit #: NY0029050	F	Plant Flow: 9.5 MGD	
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current
	CSO outfalls:		1	1	1
Collection System:	Percentage of collect that is combined:	ction system	70	70	67.2
Current info on CSO	Length of CSS (miles	s):	50	50	47.25
outfalls, overflows, volume capture, CSS	Average annual CSO events:		29	6	20
area, population served	Average annual CSO volume (MG):		11.4	>6.0	2.94
	Population served by collection system:		14,000	16,000	14,600
	Number of satellite	umber of satellite system connections:		4	3
Measurement Type for CSO Volume Discharges:	Metered				
CSO Abatement Approach:	Presumptive Approach				
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls
Receiving Water Info: 303(d), TMDL, Sensitive areas	Hudson River	1101-0044	С	Y	1

Facility Info: City of Glens	Falls SPDES Permit #: NY0029050	Plant Flow: 9.5 MGD
Additional Waterbody Information:	The segment of the Hudson River receiving CSO discharges from the City of GI NYS 2018 303(d) as precluded for Fish Consumption due to PCBs caused by conditional information for this segment of Hudson River can be found at https://www.html . WQP/PWL/1101-0044.html.	ontaminated sediment.
	The LTCP was approved on 1/29/2013 based on Presumptive Approach of 85%	volume capture.
LTCP Info: Dates submitted and approved, Issues, Approach, Status	LTCP Findings and Recommendations: Report indicated that sampling data did discharges on the receiving water. Other findings showed cross-connections be and storm sewers. Report recommended a phased approach to perform improve within the CSS. Phase 1 included modeling of infiltration into the collection system simulated using Stormwater Management Model (SWMM) dynamic wave solution of all principal control structures, including gates, weirs, and pumps, will be mode included developing and implementing an asset management plan for long-term maintenance of the CSS and WWTP, complete Geographic Information System entire CSS, cleaning and rehabilitating the CSS, installing a new regulator at CSS screens for floatables control at CSO #002, and making upgrades to pretreatm to improve treatment through the WWTP.	etween combined sewers wements at the WWTP and em. Pipe hydraulics to be on model. The hydraulics deled. Recommendations m operations and (GIS) mapping of the 60 #002, installing
	Recommended Approach to Control CSO Discharges: Recommended control is Approach to continue to capture no less than 85% of CSO volume.	s based on Presumptive
	Approved Controls Include: All recommendations and control options were app	proved.
PCCM: Status	The PCCM plan was submitted in 2010. Monitoring has been conducted annually PCCM results have been rather inconclusive, given the infrequent occurrences, n discharged, and the relative size of the receiving water. Analysis has solely been water quality. The SPDES permit was modified in 2022 to require the submission	ninimal volume of CSO desktop assessment of
Implementation Status:	To maximize the use of the collection system, the permittee reported that they collection system, which includes separation of stormwater from sanitary and the and conversion to stormwater dry wells where practical as catch basins are maistic.). To maximize flow to the treatment plant, period "bottlenecks" in the collect addressed as they were discovered, and improper sanitary connections were expanded as a system of the street. Removal and separation as SSS minimizes overflows and maximizes sanitary flow to the treatment plant. It was a phase I of the LTCP implementation schedule, the construction of Floatables Collimprovements for Outfall 02M in October 2015. Sewer system CCTV inspection and rehabilitation projects are ongoing. Phases 2 and 3 of the LTCP implemental increased primary capacity, additional sewer cleaning, and installation of 0.3 Mobeen deferred awaiting WWTP performance, evaluation of improvements, and 2020, the City completed a sewer separation assessment for Maple St. and Wa St. Pump Station. Sewer separation for Dix Ave. began and improvements to the Station were completed; a portable generator was purchased and installed. In 2 CCTV inspection and visual observation of sewers, moved forward with several completed a gravity sewer I/I study. The City also replaced a 90-year old force of Station. Stormwater separation projects were completed for Dix Ave., Maple St. Hovey St. This removed 0.75 miles of combined sewer.	ne use of GI (rain gardens, intained and replaced, tion system were eliminated on Platt St. in ion of storm flows from Permittee completed ontrol and Aeration and sewer separation ation schedule (i.e., G CSO storage tank) have outstanding needs. In Inut St. and the Henry e Thornberry Pump 2021, the City completed I separation projects, and main from Henry St. Pump

Facility Info: Village of Gouverneur S		SPDES Perr	nit #: NY0020117		Plant Flow: 3.7 MGD
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current
	CSO outfalls:		1	1	1
Collection System:	Percentage of collect that is combined:	ction system	60	60	60
Current info on CSO	Length of CSS (miles	s):	20.2	20.2	20.2
outfalls, overflows, volume capture, CSS	Average annual CSO events:		4	6	10
area, population served	Average annual CSO volume (MG):		0.200	0.342	4.655
	Population served by collection system:		3,949	3,949	3,949
	Number of satellite system connections:		1	1	1
Measurement Type for CSO Volume Discharges:	Outfall is metered				
CSO Abatement Approach:	Presumptive Approa	Presumptive Approach			
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls
Receiving Water Info: 303(d), TMDL, Sensitive areas	Oswegatchie River	0905-0097	В	N	1

Facility Info: Village of Go	uverneur SPDES Permit #: NY0020117	Plant Flow: 3.7 MGD
Additional Waterbody Information:	The segment of the Oswegatchie River receiving CSO discharges known use impairments. Additional information for this segment https://www.dec.ny.gov/data/WQP/PWL/0905-0097.pdf .	3
LTCP Info: Dates submitted and approved, Issues, Approach, Status	The LTCP was approved on 9/9/2015 based on Presumptive LTCP Findings and Recommendations: Modeling results show during storm events; however, when upstream samples are of downstream of CSOs, there is little or no significant impact to due to the CSO. Based on the information gathered through concluded: Water Quality Modeling shows that there are no requality of the Oswegatchie River as a result of the permitted permitted CSO currently meets the requirements of the Prescurrent operation and maintenance activities will not eliminately hydraulic constraints.	w that river quality is significantly impacted compared with samples from locations of the water quality of the Oswegatchie River the Village's efforts, the following can be measurable adverse effects to the water or unpermitted overflows; the Village's umptive Approach to CSO control; and the the Village's unpermitted CSOs due to
Approach, status	Recommended Approach to Control CSO Discharges: Recommeet the Presumptive Approach, which includes a proper op separation, replacement and rehabilitation of existing sewers and evaluation of new sewer connections impacts to CSO dioutfall, a compliance plan has been included in the SPDES processor of the control of the c	peration and maintenance program, sewer s, elimination of an unpermitted CSO outfall, scharges. As for the unpermitted CSO ermit mandating the permittee to eliminate
	Approved Controls Include: All recommendations and control	ol options were approved.
PCCM: Status	The PCCM Report was submitted on 4/26/2018. The PCCM reresults due to the ongoing issues with SSOs. Due to the ong issues, a reassessment has not been requested until these p	oing construction projects to mitigate these
Implementation Status:	The Village has implemented the capital improvement plan in capital improvement project identified for CSO abatement are August 2016 and was completed on 8/29/2018. The project with into the system. In addition, in 2017, the Village began the Wiprojects. The project was to replace the existing submersible pumps. The completed project now allows the pump stations than the old pumping systems. The Village, starting in 2017, but Village also continues to follow its maintenance and inspectional intensity of CSO events since its implementation. In 202 construction to reduce and eliminate unpermitted manhole Sterm I/I study, which is still pending approval by the NYS Envi 2022 the Village submitted plans and specifications for the Eapproved in May 2022; construction was expected to begin	and CSO separation began at the end of was to diminish excess inflow and infiltration WTF influent pumping station improvement by pumps that were online with above-ground as to pump approximately 0.5 MGD more began an inflow and infiltration study. The on plan, which is minimizing the frequency 1, the Village continued prioritizing SSOs. In 2020, the Village completed a long-ironmental Facilities Corporation. By January Dorwin St. Phase II project, which were

Facility Info: City of Hudson SPDES Permi		nit #: NY0022039	F	Plant Flow: 2.8 MGD	
				After CSO BMP/LTCP Implementation	Current
	CSO outfalls:		9	6	6
Collection System:	Percentage of collect that is combined:	ction system	70	69	70
Current info on CSO	Length of CSS (miles	s):	-	-	20
outfalls, overflows, volume capture, CSS	Average annual CSC) events:	15	13	35
area, population served	Average annual CSO volume (MG):		-	-	42.8
	Population served by collection system:		6,700	6,700	6,700
	Number of satellite system connections:		-	-	-
Measurement Type for CSO Volume Discharges:	Metered at Outfalls	02A, 02B, and 005. C	Outfalls 003 & 006 are	monitored by tattleta	le flow detectors.
CSO Abatement Approach:	Presumptive Approa	ach			
	Receiving Waterbody PWL No.		Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls
Receiving Water Info: 303(d), TMDL, Sensitive	Hudson River	1301-0276	А	Y	5
areas	Underhill Pond	1301-0224	В	N	1

Facility Info: City of Hudso	n SPDES Permit #: NY0022039	Plant Flow: 2.8 MGD
Additional Waterbody Information:	The segment of the Hudson River receiving CSO discharges from the City of Hud NYS 2018 303(d) as impaired for Fish Consumption due to PCBs and metals (cac contaminated sediment. Additionally, the segment of the Hudson River is also stidue to pathogens caused by CSOs and urban stormwater runoff. Additional inform of Hudson River can be found at https://www.dec.ny.gov/data/WQP/PWL/1301-02	dmium) caused by ressed for Recreation rmation for this segment
	The segment of Underhill Pond receiving CSO discharges from the City of Hudso information related to water quality is available.	on is unassessed and no
	The LTCP was approved on 4/13/2009 based on Presumptive Approach.	
LTCP Info: Dates submitted and approved, Issues, Approach, Status	LTCP Findings and Recommendations: Recommended plan included expansion capacity of the sewage treatment plant on North Front St. to I6.9 MGD. The primit treatment plant already have this capacity based on Ten States Standards. The pexpansion of the South Front St. Pump Station capacity to 3,500 gallons per min anticipated that the existing force main would be able to accommodate this additining of a 16-inch diameter gravity sewer leading to the South Front St. Pump Stationard to at least 3,500 GPM would be required.	ary clarifiers of the blan also recommended ute (GPM). It is itional flow; however,
	Approved Controls Include: Recommended plan was approved.	
PCCM: Status	The permittee has not submitted a PCCM Plan. However, the permittee claimed 02B, and 005 currently have SCADA capability with 24-hour monitoring.	that only Outfalls 02A,
Implementation Status:	The South Front St. Pump Station has been upgraded to convey up to 3,500 GPI improvements to the WWTP have been made to accommodate treatment of 16.9 primary treatment process. The facility is further configured to direct 6.0 MGD to treatment process while any volumes over 6.0 MGD and up to 16.9 MGD are directly process and then discharged to the Hudson River. The upgrades to the facility we 2011 and convey a minimum of 85% of the wet weather flow to the WWTP for prince disinfection prior to discharge, with the facility providing primary treatment and up to 16.9 MGD at the WWTP and capable of providing secondary treatment and first 6.0 MGD received at the WWTP. In the spring of 2018, the City of Hudson stappoject to incorporate GI within the CSO area. The City intends to replace catches to reduce flow to the CSS by infiltration and separate the remainder into a dediction is also currently separating 1,000 LF of combined sewer into separate storm and anticipated future phases to continue separation. In 2020, the City started constitutions (Power Ave. and Mill St.) that is anticipated to eliminate CSO even project was completed in 2021, and the City replaced and upgraded pumps to control to the WWTP and add a backup generator, Variable Frequency Drives (VFDs), and In 2021, the City reapplied for additional grant funding for the large separation princreased the weir height at Cross St. and installed new storm lines on Front	MGD through the the secondary sected to a disinfection were completed in mary treatment and disinfection of all flows disinfection of all flows disinfection of all flows distributed the secondary of the arted construction of a basins with tree planters ated storm line. The City distributed the secondary mains, with ruction to upgrade two sets at Outfall 007. This onvey additional flow and SCADA monitoring.

Facility Info: Village of Joh	Facility Info: Village of Johnson City SPDES Perr		nit #: NY0023981		Plant Flow: N/A
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current
	CSO outfalls:		2	2	2
Collection System:	Percentage of collect that is combined:	ction system	30.0	6.7	6.7
Current info on CSO	Length of CSS (miles	s):	18	4	4
outfalls, overflows, volume capture, CSS	Average annual CSC	D events:	N/A	N/A	7
area, population served	Average annual CSO volume (MG):		N/A	N/A	29.175
	Population served by collection system:		15,535	15,174	15,174
	Number of satellite system connections:		7	7	7
Measurement Type for CSO Volume Discharges:	Metered	Metered			
CSO Abatement Approach:	Presumptive Approa	Presumptive Approach			
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls
Receiving Water Info:	Little Choconut Creek	0603-0017	С	N	1
303(d), TMDL, Sensitive areas	Susquehanna River	0603-0002	А	Y	1

Additional Waterbody Information:

The segment of the Little Choconut Creek receiving CSO discharges from the Village of Johnson City is possibly stressed for Aquatic Life and Habitat/Hydrology. This assessment needs further verification. Additional information for this segment of Little Choconut Creek can be found at https://www.dec.ny.gov/data/WQP/PWL/0603-0017.html.

The segment of the Susquehanna River receiving CSO discharges from the Village of Johnson City is impaired for Recreation, Aquatic Life, and Fish Consumption. This segment is not listed on the NYS 2018 303(d). The Recreation and Aquatic Life use impairments are caused by excess nutrients and low DO due to municipal contributions from the Binghamton-Johnson City WWTP. The Binghamton-Johnson City WTTP was reconstructed due to damage from extreme flooding caused by Tropical Storm Lee (2011). Construction was completed in 2020 and as a result, water quality is expected to be restored. The Fish Consumption impairment is addressed through a TMDL (EPA's Northeast Mercury TMDL, 2007) which was developed to address atmospheric deposition of mercury in New York State waterbodies. Additional information for this segment of the Susquehanna River can be found at https://www.dec.ny.gov/data/WQP/PWL/0603-0002.html

LTCP Info:

Dates submitted and approved, Issues, Approach, Status The Village owns and maintains the CSS, trunk lines, and CSO facilities which are tributary to the Binghamton-Johnson City Joint WWTP. The Village entered a Consent Order (R7-0589-90-12) to address the CSO discharges from its systems. Subsequently, on 2/29/1999, the permittee submitted a CSO Monitoring/Surveillance Report which DEC approved. The engineering report for the CSO improvements (Floatable Control Facilities) was submitted on 5/10/2001 and approved 11/29/2001.

Recommended Approach to Control CSO Discharges: Recommended controls include installation of flow meters to monitor sanitary sewage flows and to allow determination of the total flow from the Village to the Binghamton-Johnson City Joint Sewage Treatment Plant (BJCSTP), raising the top of overflow structure of JC CSO 001 to allow access during the annual high river stage, providing an access roadway to JC CSO 001 to allow access for maintenance of the CSO structure during annual high river stage, and replacing existing flap gates with new duckbill (elastomeric) valves to prevent river flow back into the SSS.

<u>Approved Controls Include:</u> Proposed controls were approved.

PCCM: Status

The CSO-LTCP Post-Construction Monitoring Plan Final Report was completed February 2011. During 2010, water quality sampling occurred. The next round of sampling was scheduled for 2015. However, with the ongoing upgrades to the BJCSTP the next round of sampling will be performed the year after the upgrades are completed. After the 2011 flood, the CSO control facilities were reconstructed, and flow meters were installed in the channels that convey flows to BJCSTP and to the river. This allows for a calculation of percent of flow that is captured and conveyed to BJCSTP. Based on data from the flow meters, 98.7% of the flows were captured and conveyed to BJCSTP during 2017. Reassessment PCCM sampling was conducted in 2020 but was extended into 2021 to capture water quality data following completion of the BJCSTP construction.

Implementation Status:

On 10/1/2013, the Village adopted a Capacity, Management, Operations, and Maintenance Plan with one of the requirements being to perform internal CCTV inspections of 2% of the collection system or approximately 10,000 feet per year. In 2017, the Village inspected 10,339 feet of the collection system in 8 streets. In 2018, the Village replaced 562 feet of cracked and broken clay pipe with PVC pipe, which eliminated sources of infiltration. The Village also undertook a storm/sanitary sewer separation project on Grand Ave., between Willow St. and Cook St. This included disconnecting two roof leaders from the SSS. SUNY Binghamton performed a redevelopment project at 96 Corliss Ave., which included separating the site's storm sewer from the Village SSS and removing a portion of the Willow St. stormwater from the SSS. The roof leaders from the Johnson City Library were discovered to be connected to the SSS and were disconnected. The Village continues to perform internal inspections of the sanitary sewer lines prior to all street reconstruction and repaving projects to determine if pipes, manholes, and laterals require replacing. In 2020, additional separation was completed (approximately 0.2 acre), along with PipeLogix inspection of 9,951 LF of sewer, replacement of 300 LF of broken pipe, and continuation of work to locate and map the Village's collection system into the Village's Water Point Network Software. In 2021, the Village completed a storm/sanitary sewer separation project, resulting in the separation of approximately 0.13 miles of combined sewer. Approximately 9,798 LF of sewer were televised and over 1,000 LF of clay sewer were replaced. Since 2014, approximately 94,465 LF of pipe have been inspected.

Facility Info: City of Kingst	on	n SPDES Permit #: NY0029351 Plant Flow: 6.8 MG					
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current		
	CSO outfalls:		4	4	4		
Collection System:	Percentage of collect that is combined:	ction system	35	35	60		
Current info on CSO	Length of CSS (miles	s):	28	28	28		
outfalls, overflows, volume capture, CSS	Average annual CSC	D events:	85	85	95		
area, population served	Average annual CSC	O volume (MG):	29.07	144.9	183.9		
	Population served b	y collection system:	28,000	28,000	24,000		
	Number of satellite	system connections:	1	1	2		
Measurement Type for CSO Volume Discharges:	Modeled and each (CSO metered with Sm	nartCovers				
CSO Abatement Approach:	Presumptive Approa	ach					
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls		
Receiving Water Info: 303(d), TMDL, Sensitive areas	Rondout Creek	1306-0030	С	N	4		
Additional Waterbody Information:		Rondout Creek receiver quality information is		rom the City of Kingst	on is unassessed		
	Final CSO LTCP was	approved on 11/23/2	011 based on Presumր	otive Approach.			
LTCP Info:	LTCP Findings and Recommendations: Out of the 4 remaining CSO outfalls, study found out that the Hasbrouck CSO generates 92% of the CSO volume typically discharged.						
Dates submitted and	Recommended Approach to Control CSO Discharges: Recommended controls include upgrades of						
approved, Issues, Approach, Status	the Hasbrouck regulator and removal of I/I in the system. Upgrade the regulator to eliminate the need for daily maintenance in the prevention of dry weather overflows, provide direct measurement of CSO discharges, and modulate the dry weather discharge to maximize flow to the WWTF. Conduct PCCM to verify controls effectiveness. Storage tank is conditional based on PCCM results.						
	Approved Controls I	nclude: Recommende	ed controls were appr	oved.			
PCCM: Status	flow volume and du	Permittee reported that a SMART technology was installed at all CSO outfalls to measure time of day, flow volume and duration, and frequency of events. PCCM sampling was completed in the fall of 2014 and again in summer 2019. Permittee reported in each assessment that sampling results showed no					
Implementation Status:	within the sanitary s cleans and inspects flows to POTW, the controls consisting corifice at the outlet, feedback. All CSO of floatables. Additional 192,000 gallons). Peinitiated design of P 2021. The City issue but has been put on portion of the Broad	And again in summer 2019. Permittee reported in each assessment that sampling results showed no WQS exceedances in the Rondout Creek. PCCM expected to be reassessed again in 2024. For maximum use of collection system for storage, the City uses pump station wet wells; stores sewage within the sanitary sewerage collection system; regularly adjusts regulators and weirs; and regularly cleans and inspects collection system, removing flow restricting sediment and debris. To maximize flows to POTW, the City upgraded the CSO regulator to Old Hasbrouck Ave. by replacing the regulator controls consisting of a float and guide assembly to control influent flows, and anti-vortex fixed-plate perifice at the outlet, with an influent flow sensing regulator gate with WWTP influent channel flow level feedback. All CSO outfalls (except Outfall 007) use mechanical screening for the removal of solids and floatables. Additional in-line storage is available at the Wilbur Ave. Pretreatment Pump Station (approx. 192,000 gallons). Permittee estimates 96.4% capture in 2019 and 94.39% in 2020. In 2020, the City initiated design of Phase I of the Hasbrouck sewershed separation, which remained in design during 2021. The City issued a Request for Qualifications (RFQ) for Phase II in 2020 and was awarded in 2021, but has been put on hold due to funding issues with Environmental Facilities Corporation (EFC). A cortion of the Broadway sewer corridor was smoke tested in 2021 and illegal roof drain connections were disconnected. Separation of three Midtown area combined streets are expected to begin					

Facility Info: City of Little F	alls	SPDES Perm	nit #: NY0022403		Plant Flow: 7.0 MGD
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current
	CSO outfalls:		3	3	3
Collection System:	Percentage of collect that is combined:	tion system	30	30	30
Current info on CSO	Length of CSS (miles	s):	20	20	20
outfalls, overflows, volume capture, CSS	Average annual CSC	events:	69	49	37
area, population served	Average annual CSC	volume (MG):	24.8	2.04	0.79
	Population served by	y collection system:	5,200	5,000	4,900
	Number of satellite s	system connections:	0	0	0
Measurement Type for CSO Volume Discharges:	Metered				
CSO Abatement Approach:	Presumptive Approa	ch			
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls
Receiving Water Info: 303(d), TMDL, Sensitive areas	Mohawk River	1201-0091	С	Y	3
Additional Waterbody Information:		on for this segment of 1.html	•	s caused by contamir e found at <u>https://www</u>	
LTCP Info: Dates submitted and	LTCP Findings and R discharges on receive the projected annua	decommendations: Th ving water backgroun I capture of over 99% n the mid-1940s whic	d loadings. The plan is of wet weather flows	ere were negligible efmet the Presumptive A. The City implemente eas and ultimately rec	Approach based on ed extensive sewer
approved, Issues, Approach, Status	due to the remaining recommended that t with its current SPDE should be made.	g CSO discharges, no he City should contin ES requirements. Con	additional controls w ue to monitor and ma tinued focus on imple	there were no water ere recommended. He intain its sewer syster menting and improvir	owever, the plan m in accordance
PCCM: Status	Approved Controls Include: Continued implementing the CSO BMPs in the permit. The PCCM Plan was approved 12/1/2014. Sampling and assessment are conducted annually for several pollutants, including Biochemical Oxygen D (BOD), Total Suspended Solids (TSS), nitrogen family, fecal coliform, and E. Coli. The 2019 PCCM results were submitted with the CSO BMP Annual Report in January 2020. The results show attainment with all pollutants, except pathogens. Due to a limited set of sampled events, it cannot be determined that CSO events are not contributing to pathogens in the receiving water, but they may not be the only source. Additional PCCM sampling was performed in 2021, consisting of two dry weather events and three wet weather events. Three CSO events were captured. Fecal coliform and suspended solids results appear to show significant increases during wet weather conditions, while all other sampled pollutants were minimal or non-detect. DEC recommended that the PCCM sampling period be expanded or adjusted to capture more CSO events.				
Implementation Status:					

Facility Info: City of Lockport SPDES Permi		nit #: NY0027057	Pla	ant Flow: 22.0 MGD	
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current
	CSO outfalls:		30	12	10
Collection System:	Percentage of collect that is combined:	ction system	70	70	70
Current info on CSO	Length of CSS (miles	s):	100	100	100
outfalls, overflows, volume capture, CSS	Average annual CSO events:		72	26	17
area, population served	Average annual CSO volume (MG):		10.37	12.2	22.628
	Population served by collection system:		-	32,000	25,000
	Number of satellite system connections:		-	12	12
Measurement Type for CSO Volume Discharges:	Metered				
CSO Abatement Approach:	Presumptive Approa	ach			
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls
Receiving Water Info: 303(d), TMDL, Sensitive	Eighteen Mile Creek Tributary	0301-0058	D	N	5
areas	NYS Barge Canal	0102-0044	С	N	5

Facility Info: City of Lockp	ort SPDES Permit #: NY0027057	Plant Flow: 22.0 MGD			
Additional Waterbody	The segment of the Eighteen Mile Creek Tributary receiving CSO discharges from unassessed and no additional water quality information is available.	om the City of Lockport is			
Information:	The segment of the NYS Barge Canal receiving CSO discharges from the City of and no additional water quality information is available.	of Lockport is unassessed			
	The City of Lockport submitted a final CSO LTCP on 10/25/2011. DEC approved 3/12/2012.	the final LTCP on			
LTCP Info: Dates submitted and approved, Issues,	LTCP Findings and Recommendations: The report concluded that CSO controls implemented by the City of Lockport since the year 2000 had effectively reduced CSOs and that the reduced volume and frequency of CSOs were not causing water quality violations. The City determined that about 99% of the wet weather flow was being captured, which supports the presumption that WQS are being met.				
Approach, Status	Recommended Approach to Control CSO Discharges: The CSO controls impler include sewer separation, overflow weir modification, and sewer repair and rep recommended continued implementation of the CSO BMPs.	•			
	Approved Controls Include: DEC concurred with and approved the recommend	ed approach.			
PCCM: Status	The PCCM Plan was submitted on 10/1/2010 and was approved on 3/11/2013. PC conducted in April and May of 2014 in accordance with the approved PCCM Plasummarized in a report to the DEC dated 6/10/2013, indicated attainment of the	an. The monitoring results,			
Implementation Status:	In 2017, the City continued to regularly inspect CSOs. The City purchased and in meters for real-time monitoring in fall 2017 and is using NY-Alert to report overfl has performed video inspections and cleaning of more than 14,200 feet of the several holes and broken segments were found and repaired. Approximately 2 cured-in-place piping (CIPP) lined in 2017. In 2018 the City implemented the storon High St., and further evaluated the sewer system using grant funds awarded 2019, the City continued investigation of potential CSO adjustments and modific raising of weirs at Outfalls 019 and 034. Ongoing collection-system monitoring 034 may lead to future closure. The City also spent \$1.2M on WWTP and sewer upgrades. Approximately 4,700 LF of sewer was televised and cleaned. In 2020 grant application for an I/I study (flow monitoring and CCTV). The City did receiv project, for a study of Outfall 014, the most active CSO. This study was completed also completed primary clarifier repairs in July 2020 and conducted CCTV insp 3,200 LF of sewer in 2020. In 2021, design was completed for the Gulf Intercept that relocated and upsized an existing sewer line to increase conveyance of CS applied for an Energy Efficiency grant to replace existing monitoring equipment monitors for the anticipated Gulf Interceptor project. In 2021, the City purchased installed or replaced CSO outfalls signs for six CSO outfalls. In 2022, the City plof sewer and complete installation of UV at the WWTP.	sow events. The City sewer collection system. ,300 feet of sewer were rm sewer separation I in 2016 and 2017. In cations, including for Outfalls 023 and rehab, inspections, and 0, the City submitted a ve funding for a separate ed in 2021. The City ection and clearing of otor diversion project SS flows. The City has and purchase additional d new outfall meters and			

Facility Info: Village of Massena SPDES Pe		SPDES Perr	nit #: NY0031194	Plant Flow: 13.5 MGD	
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current
	CSO outfalls:		-	14	10
Collection System:	Percentage of collect that is combined:	ction system	100	100	100
Current info on CSO	Length of CSS (miles	s):	55.2	55.2	55.2
outfalls, overflows, volume capture, CSS	Average annual CSO events:		-	5	0
area, population served	Average annual CSO volume (MG):		-	12.96	0
	Population served by collection system:		-	-	-
	Number of satellite system connections:		0	0	0
Measurement Type for CSO Volume Discharges:	Estimated, WWTP B	ypass & ORF are mete	ered/calculated		
CSO Abatement Approach:	Presumptive Approa	ach			
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls
Receiving Water Info:	Grasse River	0904-0008	В	N	4
303(d), TMDL, Sensitive	Grasse River	0904-0009	В	Y	2
areas	Raquette River	0903-0059	В	Υ	4

catch basins connected to the SSS. Facility improvements are ongoing.

Facility Info: Village of Medina SPDES		SPDES Pern	nit #: NY0021873	ı	Plant Flow: 4.5 MGD
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current
	CSO outfalls:		-	-	9
Collection System:	Percentage of collecthat is combined:	ction system	-	-	60
Current info on CSO	Length of CSS (mile	s):	-	-	25
outfalls, overflows, volume capture, CSS	Average annual CS0	O events:	-	-	0
area, population served	Average annual CSO volume (MG):		-	-	0
	Population served by collection system:		-	-	6,250
	Number of satellite system connections:		-	-	-
Measurement Type for CSO Volume Discharges:	Estimated				
CSO Abatement Approach:	Presumptive Approa	ach			
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls
	Barge Canal	1301-0074	С	N	3
Receiving Water Info: 303(d), TMDL, Sensitive areas	Oak Orchard Creek	0301-0005	С	N	2
	Oak Orchard Creek	0301-0014	С	Y	4

Facility Info: Village of Me	dina SPDES Permit #: NY0021873	Plant Flow: 4.5 MGD			
	The segment of the Barge Canal receiving CSO discharges from the Village of Me Recreation, Aquatic Life, and Fish Consumption due to unknown sources. Additio segment of Barge Canal can be found at https://www.dec.ny.gov/data/WQP/PWL/	nal information for this			
Additional Waterbody Information:	The segment of Oak Orchard Creek (0301-0005) receiving CSO discharges from the Village of Medina is stressed for Recreation and Aquatic Life due to nutrients caused by CSOs, urban stormwater runoff, and agriculture. Additional information for this segment of Oak Orchard Creek can be found at https://www.dec.ny.gov/data/WQP/PWL/0301-0005.pdf .				
	The segment of Oak Orchard Creek (0301-0014) receiving CSO discharges from the isimpaired for Aquatic Life due to nutrients caused by agriculture, habitat alterative discharges (all suspected). This segment is not listed on the 2018 NYS 303(d); however the included in the next 303(d) list. Additional information for this Orchard Creek can be found at https://www.dec.ny.gov/data/WQP/PWL/0301-001/	on, and municipal wever, it has been s segment of Oak			
	The LTCP was approved on 8/14/2007 based on Presumptive Approach.				
LTCP Info: Dates submitted and approved, Issues, Approach, Status	LTCP Findings and Recommendations: The Village of Medina indicated that by im BMPs, there have been fewer than four overflow events on annual average. Meas has taken include inspection and maintenance of its permitted CSO locations, ins connections to the sewer system, installation of SCADA controls at lift stations to wet weather events to maximize storage capacity, reduction of infiltration and influsystem, and other measures to eliminate CSO events throughout the collection system.	pections for illegal control pumping during ow into the sewer			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Recommended Approach to Control CSO Discharges: The facility is currently mee Approach by discharging less than four overflow events on an annual average. The to continue with the current practices and reduce CSO discharges.	•			
	Approved Controls Include: Recommended controls were approved.				
PCCM: Status	The permittee has not submitted a formal PCCM Plan to date. The 2021 permit red and submission of a PCCM Plan by 12/1/2021.	quired the development			
Implementation Status:	The Village of Medina typically has no CSO events. There were no CSO events in documented CSO event occurred during an extreme rain event in 2006, where 2 10 hours. Therefore, the Village claims compliance with the Presumptive Approac four to six events per year. All LTCP projects have been completed, except for PC CSO events are infrequent, a modified requirement is being discussed to be inclu of the SPDES permit to verify attainment of the receiving water when CSO events currently completing a significant WWTP upgrade, including new Rotating Biologic the addition of UV disinfection, and the replacement of the bypass microscreens. CSS/CSO inspection in 2021 and identified the need for replacement of CSO more potential modifications to these devices.	.5 inches of rain fell in h criterion for less than CM sampling. Since ded in the next review occur. The Village is cal Contactors (RBCs), DEC conducted a			

Facility Info: Monroe Coun	Facility Info: Monroe County – Frank E. Van Lare STP SPD			Permit #: NY0028339 Plant Flow: 135.0 MGD		
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current	
	CSO outfalls:		-	20	20	
Collection System:	Percentage of collection system that is combined:		-	100	100	
Current info on CSO	Length of CSS (miles	s):	-	736	736	
outfalls, overflows, volume capture, CSS	Average annual CSO events:		-	3	11	
area, population served	Average annual CSO volume (MG):		-	69	259.46	
	Population served by collection system:		-	-	749,600	
	Number of satellite system connections:		-	29	29	
Measurement Type for CSO Volume Discharges:	Metered					
CSO Abatement Approach:	Presumptive Approa	ach				
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls	
Receiving Water Info:	Genesee River	0401-0001	В	Y	16	
303(d), TMDL, Sensitive	Irondequoit Bay	0302-0001	В	Y	3	
areas	Irondequoit Creek	0302-0024	В	N	1	

Facility Info: Monroe Cour	nty – Frank E. Van Lare STP	SPDES Permit #: NY0028339	Plant Flow: 135.0 MGD			
	Lare STP is listed on the NYS 2018	r receiving CSO discharges from the Monr 3 303(d) as impaired for Fish Consumption ediment. Additional information for this se v/data/WQP/PWL/0401-0001.html.	due to PCBs and pesticides			
Additional Waterbody Information:	Lare STP is listed on the NYS 2018 caused by toxic/contaminated sed	ay receiving CSO discharges from the Mor 3 303(d) as impaired for Fish Consumption iment. Additional information for this segri v/data/WQP/PWL/0302-0001.html.	due to PCBs and pesticides			
	Lare STP is stressed for Fish Cons	receiving CSO discharges from the Monroumption, Recreation, and Aquatic Life due al information for this segment of Irondequ/PWL/0302-0024.html.	to nutrients caused by			
	operation in the early 1990s before 175 MG of storage capacity, interce	deep rock tunnel system ⁹ was installed be the EPA CSO Control Policy was develop epts combined sewage via drop shafts fron ewage until the WWTF can provide treatm	ned. This tunnel system, with m the surface collection			
LTCP Info: Dates submitted and approved, Issues, Approach, Status	LTCP Findings and Recommendations: Initial findings and recommendations are listed in a CSO Abatement Program document. However, the County began assessing CSO problems in 1972 by conducting a detailed review of the operation of both the overflow system and the 1968 Comprehensive Sewerage Study, which was commissioned by the county. Those reviews confirmed the problems were due to a CSS that conveys both stormwater and sanitary sewage in a single pipe that became overloaded. Overflow points were established in the system to relieve the overloaded condition during rainstorms to prevent sewage from backing up into homes. The report also indicated that most of these overflow points discharged untreated sewage to the Genesee River, in addition to overflows to Irondequoit Bay and the Barge Canal.					
	recommended to construct a store	rol CSO Discharges: Following a series of a age/conveyance tunnel system, which was asumptive Approach by accepting and trea	completed in 1975. The			
	Approved Controls Include: See the Our-Projects/project/493.	e CSO Abatement Program website https://	://www.erdmananthony.com/			
PCCM: Status	gauge site has real-time communication implemented following completion following 10 consecutive wet weat	gauges are strategically located througho cation using our Citect SCADA System. A Form of the CSO Abatement Program Tunnel and her events. The results show that the recein imarily due to the size of the receiving wat flows during wet weather.	PCCM program was and results were reported viving waters are in			
Implementation Status:	storage. The County estimates that event from Outfall T003, while over sewer was cleaned. The County controls at additional structures, at controls. In 2020, the County estin tunnels. The County continues to and removing grit from grit chamb 660 catch basins, repaired an add 2021, the County cleaned 174,636 catch basins, repaired 27 sewers as	ted the projects in the approved LTCP, incit in 2019 it attained 99.4% capture. In 2019 of 235,000 LF of main sewer was inspected ontinues to investigate additional controls, and upgrades or replacement of hydraulic limated 99.24% capture and only 4 events of optimize the in-line storage by raising weir ers/CSO structures. The County cleaned 12 ition 240 catch basins, and inspected 164, LF and inspected 227,800 LF of sewer maind 248 catch basins. The gate actuator reand hydraulic replacements at Front St. has	d, there was only 1 CSO d and over 163,000 LF of including new floatables ines, actuators, gates, and of discharge from the CSO is at system relief points 23,000 LF of sewer and 000 LF of sewer in 2020. In ain. The County cleaned 763 eplacement at Culver Atlantic			

⁹ See https://www.monroecounty.gov/des-purewaters

¹⁰ See Combined Sewer Abatement Program, Rochester NY, Volume 1 Abatement Analysis, EPA-600/2-79-031a, July 1979: http://goo.gl/Unpn48

Facility Info: City of Newburgh SPDES Permi		nit #: NY0026310	F	Plant Flow: 9.0 MGD	
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current
	CSO outfalls:		13	13	13
Collection System:	Percentage of collect that is combined:	ction system	67	<67	78.9
Current info on CSO	Length of CSS (miles	s):	69	69	44.81
outfalls, overflows, volume capture, CSS	Average annual CSO events:		47	-	44
area, population served	Average annual CSO volume (MG):		185	-	87.07
	Population served by collection system:		59,034	59,034	59,034
	Number of satellite system connections:		4	4	4
Measurement Type for CSO Volume Discharges:	Flow meter for CSO	001 & SmartCover mo	onitors at all other CS	Os	
CSO Abatement Approach:	Presumptive Approa	ach			
	Receiving Waterbody PWL No.		Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls
Receiving Water Info: 303(d), TMDL, Sensitive	Hudson River	1301-0003	В	Y	12
areas	Quassaic Creek	1301-0079	С	N	1

truck in 2020 (estimated delivery 2022), which will allow for increased sewer cleanings.

Facility Info: Niagara Falls	Facility Info: Niagara Falls Water Board SPDES Perr			Pla	ant Flow: 48.0 MGD
				After CSO BMP/LTCP Implementation	Current
	CSO outfalls:		8	6	6
Collection System:	Percentage of collect that is combined:	ction system	65	65	65
Current info on CSO	Length of CSS (miles	s):	280	280	280
outfalls, overflows, volume capture, CSS	Average annual CSO events:		69	-	44
area, population served	Average annual CSO volume (MG):		253	-	102.8
	Population served by collection system:		50,000	50,000	50,000
	Number of satellite	system connections:	1	1	1
Measurement Type for CSO Volume Discharges:	Metered Outfalls 00	3 and 006. Other out	falls are inaccessible.		
CSO Abatement Approach:	Presumptive Approa	ach			
	Receiving Waterbody No. of CS Waterbody PWL No. Classification Impaired (Y/N) Outfalls				
Receiving Water Info: 303(d), TMDL, Sensitive areas	Niagara River	0101-0006	A-Special	Υ	6

Facility Info: Niagara Falls	Water Board	SPDES Permit #: NY0026336	Plant Flow: 48.0 MGD				
Additional Waterbody Information:	on the NYS 2018 303(d) a sediment. Additional infor	The segment of the Niagara River receiving CSO discharges from the Niagara Falls Water Board is listed on the NYS 2018 303(d) as impaired for Fish Consumption due to PCBs caused by toxic/contaminated sediment. Additional information for this segment of Niagara River can be found at https://www.dec.ny.gov/data/WQP/PWL/0101-0006.html .					
	The LTCP was approved o	on 4/21/2008, based on the Presumptive Appro	oach.				
	LTCP Findings and Recom	nmendations: Plan revealed that the existing floesumptive Approach.	ow capture of 88% exceeds the				
LTCP Info: Dates submitted and	la contraction of the contractio	to Control CSO Discharges: Recommended p ecially weir adjustment at the Gorge Pump Sta alnut outfalls.					
approved, Issues, Approach, Status	next to Drop Shaft 3 to div installing baffles along the overflow events; isolating structure to direct less sto 010; installing of a new we	e: Removal of flow bottleneck near Outfall 005 vert flow from the Walnut intercepting chamber approach channel in the Gorge Pump Station Outfall 008 and diversion chamber from the Comwater flow to the Gorge interceptor; increase ir to decrease the volume of the water dischalimizing storage in the Garfield Tunnel.	er and into the drop shaft; In to capture floatables during CSS; modifying weirs in the Ssing stormwater flow to Outfall				
PCCM: Status	monitoring demonstrating conducted in 2018, submilt is expected that the Nia	nitted on 10/1/2010 and approved on 3/11/2013. I objective attainment was submitted on 6/10/2 tted on 02/04/2019, and showed that the rece gara River will continue to exhibit attainment ds. PCCM monitoring continues in years ending	2013. A reassessment was eiving water was in attainment.				
Implementation Status:	for storage, the WWTF op the influent level at a prec treatment facility as well at the Falls St. Tunnel (FST) at permittee reported that so devices slow the rate at we the catch basin and along weather overflows from the issues with bottlenecks at Station began rehabilitation	er the LTCP have been completed. To maximizerations staff controls the wastewater treatmes defined range level in the main wet well. This new maximizing the storage capacity of the interest Regulator 6C for as long as possible during a everal catch basin restrictors were installed in which street runoff enters the sewers by creating adjacent curbs. In 2019, the Water Board reported Gorge St. Pump Station, which are partially on the need for additional wet well volume. In the total report to replace the 1992 pumps and upgrade sufflows from the Fall St. Tunnel were diverted to	ent plant main pumps to maintain maximizes conveyance to the ceptor to delay overflow to a wet weather event. Also, the various parts of the CSS. These ag temporary storage within orted several instances of dry connected to ongoing SSO fall 2020, the Gorge St. Pump pport systems. As part of this				

Facility Info: City of Ogder	nsburg	SPDES Pern	nit #: NY0029831	Р	lant Flow: 6.5 MGD	
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current	
	CSO outfalls:		18	17	17	
Collection System:	Percentage of collect that is combined:	ction system	100	97	97	
Current info on CSO	Length of CSS (miles	s):	90	87	90	
outfalls, overflows, volume capture, CSS	Average annual CSC	events:	42	<42	48	
area, population served	Average annual CSC) volume (MG):	-	-	31.38	
	Population served by	y collection system:	10,937	10,937	10,064	
	Number of satellite s	system connections:	0	0	0	
Measurement Type for CSO Volume Discharges:	Observation of debr	is on weirs				
CSO Abatement Approach:	Presumptive Approa	och				
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls	
Receiving Water Info:	Oswegatchie River	0905-0110	В	N	9	
303(d), TMDL, Sensitive areas	Saint Lawrence River	0901-0015	A-Special	Y	8	
Additional Waterbody Information:	The segment of the Oswegatchie River receiving CSO discharges from the City of Ogdensburg has no known water quality impacts. Additional information for this segment of Oswegatchie River can be found at https://www.dec.ny.gov/data/WQP/PWL/0905-0110.pdf . The segment of the St. Lawrence River receiving CSO discharges from the City of Ogdensburg is listed on the NYS 2018 303(d) as impaired for Fish Consumption due to pesticides (mirex), PCBs, and priority organics (dioxin), caused by toxic/contaminated sediment. Additional information for this segment of St.					
LTCP Info: Dates submitted and approved, Issues, Approach, Status	Lawrence River can be found at https://www.dec.ny.gov/data/WQP/PWL/0901-0015.html . Final CSO LTCP was approved on 7/26/2012 based on Presumptive Approach. LTCP Findings and Recommendations: Initial findings indicated that the mean fecal coliform is slightly above WQS at the upstream location of St. Lawrence River which is likely due to CSO discharges. Plan showed that percent capture from CSO discharges to Oswegatchie River was 90%, and percent capture to St. Lawrence River was 75%. Recommended Approach to Control CSO Discharges: Recommended approach is to increase the capture rate to meet the Presumptive Approach for CSO requirements. This approach includes a combination of controls, including sewer separation along Paterson St.; GI projects; optimization of capture rate through weir modifications; hydraulic improvements; and installation of an 800,000-gallon storage facility for CSOs 001 and 002. Approved Controls Include: The recommended controls were approved following a revised LTCP that					
PCCM: Status	completion of the 0.5	included a discussion on a PCCM plan. The PCCM plan was required to be developed and submitted by 7/10/2020, following construction completion of the 0.8 MG CSO storage facility. This has been completed and the PCCM Plan is expected to be developed and implemented by 12/31/2022. PCCM sampling will occur following approval of the PCCM Plan.				
Implementation Status:	work aligns with the in 2017 and amende 800,000-gallon CSC	approved July 2012 I d in 2019, which exte d equalization tank ha s also been construct	TCP. An Order on Conded the construction is been constructed.	difications were comp nsent (R6-20170602-2 n timeline of the storag The additional pump st construction is due, in	27) was executed ge facility. The tation within the	

Facility Info: Onondaga County - Syracuse Metropolitan WWTP			SPDES Permit #	SPDES Permit #: NY0027081 Plant Flow: 84.2 MGD		
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current	
	CSO outfalls:		72	46	46	
Collection System:	Percentage of collecthat is combined:	ction system	99.5	88.5	34	
Current info on CSO	Length of CSS (mile	s):	-	-	160	
outfalls, overflows, volume capture, CSS	Average annual CSC	O events:	-	-	55	
area, population served	Average annual CSO volume (MG):		-	-	341.6	
	Population served by collection system:		147,346	145,170	148,620	
	Number of satellite system connections:		-	-	3	
Measurement Type for CSO Volume Discharges:	Modeled					
CSO Abatement Approach:	Presumptive Approa	ach				
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls	
	Harbor Brook	0702-0002	В	Υ	6	
Receiving Water Info: 303(d), TMDL, Sensitive	Harbor Brook	0702-0012	С	N	10	
areas	Ley Creek	0702-0001	С	Υ	2	
	Onondaga Creek	0702-0023	С	Υ	28	

approvable LTCP.

Additional Waterbody

The segment of the Harbor Brook (0702-0002) receiving CSO discharges from Onondaga County is listed on the NYS 2018 303(d) as impaired for Public Bathing, Aquatic Life, and Recreation due to aesthetics (floatables), ammonia, nutrients (phosphorus), and pathogens, caused by CSOs, landfill/land disposal., and urban stormwater runoff. Additional information for this segment of Harbor Brook can be found at https://www.dec.ny.gov/data/WQP/PWL/0702-0002.html.

The segment of the Harbor Brook (0702-0012) receiving CSO discharges from Onondaga County is unassessed and no further water quality information is available. Additional information for this segment of Harbor Brook can be found at https://www.dec.ny.gov/data/WQP/PWL/0702-0012.html.

The segment of the Ley Creek receiving CSO discharges from Onondaga County is listed on the NYS 2018 303(d) as impaired for Public Bathing, Aquatic Life, and Recreation due to other organics (cyanide), aesthetics (floatables), ammonia, and priority organics, caused by CSOs, landfill/land disposal, and urban stormwater runoff. Additional information for this segment of Ley Creek can be found at https://www.dec.ny.gov/data/WQP/PWL/0702-0001.html.

The segment of the Onondaga Creek receiving CSO discharges from Onondaga County is listed on the NYS 2018 303(d) as impaired for Aquatic Life and Recreation due to pathogens, nutrients (phosphorus), turbidity, silt/sediment, chloride/salts, and aesthetics (floatables), caused by CSOs, urban stormwater runoff, and streambank erosion. Additional information for this segment of Onondaga Creek can be found at https://www.dec.ny.gov/data/WQP/PWL/0702-0023.html.

The detailed information about the Amended Consent Judgment (ACJ) and Onondaga County's progress on the CSO Abatement Program is available at http://www.ongov.net/wep/.

LTCP Info: Dates submitted and approved, Issues, Approach, Status

The CSO Abatement Program was set forth in the 2009 ACJ. The ACJ specifies projects and sets milestone dates to complete each project. Also, the ACJ requires Onondaga County to conduct the Ambient Monitoring Program (AMP) to assess the water quality of Onondaga Lake and its tributaries (during both wet and dry weather). The results of these efforts will be used to validate the SWMM model and to ascertain percent capture of stormwater and CSO flows from green and gray technologies up to the design storm. The County and DEC negotiated an Order on Consent that supplanted the ACJ, now that the goals and requirements of the ACJ have been attained. Since the ACJ's AMP has shown that water quality is not being attained, even after significant percent capture, further work is necessary. As part of the Order on Consent Compliance Schedule, the County is required to submit and implement an

Recommended Approach to Control CSO Discharges: As required by the ACJ, the quarterly reports were submitted and are available at: https://savetherain.us/str-reports/. Under the Order on Consent, the County will submit annual status reports. The County is in compliance with the Presumptive Approach for percent capture, however, water quality is not attained. New projects are to be proposed in the LTCP to be submitted under the Order on Consent.

<u>Approved Controls Include:</u> ACJ projects have been completed and DEC is awaiting submission of an approvable LTCP.

PCCM: Status

Detailed information about the approved PCCM can be found at http://www.ongov.net/wep/. The AMP required by the ACJ has exhibited the water quality has not been attained in the CSO receiving waters during periods of wet weather. A formal PCCM Plan and recurring monitoring will be required as part of the LTCP.

Implementation Status:

Information regarding the implementation status of the LTCP can be found at http://www.ongov.net/wep/. As of 2019, the County estimates that 97.9% capture is being attained during the typical year and is therefore in compliance with the Presumptive Approach. A new LTCP was submitted on 10/11/2019 to DEC. After several discussions and comments, it was determined that additional time and data collection are necessary to provide a sufficient and approvable LTCP. The County and DEC executed a new Order on Consent in March 2021 that has taken over CSO enforcement, following satisfactory termination of the ACJ in October 2021. The Order requires several signification projects to be conducted over a five-year period, including additional ambient data collection, evaluation of existing CSO controls, and submission of a revised LTCP document. In 2021, the County contracted out two sewer lining projects. The first, on North Salina St. lining 6,200 LF of sewer, and the second, on West Kirkpatrick St. lining 1,300 LF. The regulator at CSO 075 was modified to reduce the frequency of CSO discharges and provide estimated backflow conditions from the Inner Harbor into the combined sewer. All three projects were funded in part via a New York State Empire State Development (ESD) Regional Council Economic Grant that the County obtained.

Facility Info: City of Oswego - East Side		SPDES Perr	nit #: NY0029114	Pl	Plant Flow: 5.35 MGD		
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current		
	CSO outfalls:		6	1	1		
Collection System:	Percentage of collection system that is combined:		Unknown	27	27		
Current info on CSO	Length of CSS (miles):		Unknown	12.15	12.15		
outfalls, overflows, volume capture, CSS	Average annual CSC	D events:	10	4	3		
area, population served	Average annual CS0	O volume (MG):	Unknown	8.98	2.48		
	Population served b	y collection system:	9,000	9,000	9,000		
	Number of satellite	system connections:	1	1	1		
Measurement Type for CSO Volume Discharges:	Flows are calculated	d for 002					
CSO Abatement Approach:	Presumptive Approa	ach					
					No. of CSO Outfalls		
Receiving Water Info: 303(d), TMDL, Sensitive areas	Lake Ontario	0303-0017	А	Y	1		
Additional Waterbody Information:	The segment of Lake Ontario receiving CSO discharges from the City of Oswego – East Side is listed on the NYS 2018 303(d) as impaired for Fish Consumption due to pesticides (mirex), PCBs, and priority organics (dioxin) caused by toxic/contaminated sediment. Additional information for this segment of Lake Ontario can be found at https://www.dec.ny.gov/data/WQP/PWL/0303-0017.pdf .						
	The final CSO LTCP was approved on 1/26/2006 based on Presumptive Approach.						
LTCP Info: Dates submitted and	upstream of Outfall	003. As a result, the 0		cility already exists at n was already capturin Imptive Approach.			
approved, Issues, Approach, Status	Recommended Approach to Control CSO Discharges: Although the permittee is already meeting the Presumptive Approach prior to developing LTCP, additional recommended controls include increasing the capacity at the existing storage tank, pump station upgrades, and an increase in headworks capacity.						
	Approved Controls Include: All recommended controls.						
PCCM: Status	The PCCM was submitted in September 2012 and was deemed incomplete by DEC in June 2013. A meeting was held with DEC and the permittee on 1/22/2016. PCCM was eventually approved on 3/7/2017.						
Implementation Status:	The LTCP has been completed as of the end of 2016. The East Side Sanitary System is 70% separated and all sanitary wastewater is treated at the East Side Treatment Plant.						

Facility Info: City of Oswego - West Side SPDES Permit #: NY0029106 Plant Flow: 12.0 M					
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current
	CSO outfalls:		2	2	2
Collection System:	Percentage of collection system that is combined:		33.4	25	16
Current info on CSO	Length of CSS (miles):		15	11.25	8
outfalls, overflows, volume capture, CSS	Average annual CSO events:		32	10	6
area, population served	Average annual CSO volume (MG):		44.60	21.90	9.38
	Population served by collection system:		16,350	16,350	16,350
	Number of satellite system connections:		2	2	2
Measurement Type for CSO Volume Discharges:	Metered				
CSO Abatement Approach:	Presumptive Approach				
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls
Receiving Water Info: 303(d), TMDL, Sensitive areas	Oswego River	0701-0022	С	N	2

Facility Info: City of Oswe	go - West Side	SPDES Permit #: NY0029106	Plant Flow: 12.0 MGD		
Additional Waterbody Information:	The segment of the Oswego River receiving CSO discharges from the City of Oswego – West Side has no known water quality impacts. Additional information for this segment of Oswego River can be found at https://www.dec.ny.gov/data/WQP/PWL/0701-0022.pdf .				
LTCP Info: Dates submitted and approved, Issues, Approach, Status		n was not approvable; subsequently, on 3/9/20' requiring a series of CSO controls to bring the page.	•		
	LTCP Findings and Recommendations: Findings included unpermitted wet weather discharges in some parts of the collection system. Facility already has an Excess Flow Management Facility (EFMF) with 0.15 MG capacity.				
	Recommended Approach to Control CSO Discharges: Control approach is presumptive. LTCP plan includes continuation to maintain the EFMF, disinfection, in-line storage, and other BMPs.				
	of a WWTP operation	clude: The Consent Decree mandated a series and maintenance program; Oswego Intercepto low elimination; Capacity Management, Operationitoring.	or cleaning; disinfection at the		
PCCM: Status		he PCCM Plan on 9/24/2012. Preliminary monit Decree, a PCCM Plan for follow-up sampling w plete in 2023.			
Implementation Status:	project along with consubmission of the CSG allowing up to 3.5 MG capacity for wet weat to 12 MGD has been of 9/25/17. Combined se sewer separation third was completed in 202	in progress. The Westside Sanitary System has impletion of a 25% rehabilitation project. The Cit O Control Report's second 25% plan. The EFMF of to be pumped to the main plant. This project her storage and disinfection. Main plant wet we completed. Combined sewer separation second wer rehabilitation Section 25% Phase 2 was coad 25% Phase 3 and combined sewer rehabilitation. In 2020, the City replaced slide gates to aero MGD) for wet weather storage, as needed.	ty is currently working on Fupgrade has been completed, to also included a 150,000-gallon eather capacity upgrade from 8 MGD d 25% Phase 2 was completed on simpleted on 10/22/2018. Combined cion third and fourth 25% Phase 3		

Facility Info: City of Plattsburgh SPDES Pe		SPDES Pern	mit #: NY0026018		Plant Flow: 16.0 MGD	
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current	
	CSO outfalls:		26	11	11	
Collection System:	Percentage of collection system that is combined:		79	79	79	
Current info on CSO	Length of CSS (miles):		45	45	45	
outfalls, overflows, volume capture, CSS	Average annual CSO events:		16	5	25	
area, population served	Average annual CSO volume (MG):		5.49	4.20	4.2	
	Population served by collection system:		18,823	18,823	19,750	
	Number of satellite system connections:		1	1	1	
Measurement Type for CSO Volume Discharges:	Modeled					
CSO Abatement Approach:	Presumptive Approach					
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls	
Receiving Water Info: 303(d), TMDL, Sensitive areas	Cumberland Bay	1001-0001	В	Υ	1	
	Lake Champlain	1000-0002	A(T)	Υ	1	
	Saranac River	1003-0049	C(T)	N	9	

Facility Info: City of Poughkeepsie		SPDES Perm	SPDES Permit #: NY0026255		
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current
	CSO outfalls:		6	6	5
Collection System:	Percentage of collection system that is combined:		37	36.6	36.6
Current info on CSO	Length of CSS (miles):		26.3	26	26
outfalls, overflows, volume capture, CSS	Average annual CSO events:		181	134	75
area, population served	Average annual CSO volume (MG):		114.54	61	60.1
	Population served by collection system:		-	32,761	31,577
	Number of satellite system connections:		2	2	2
Measurement Type for CSO Volume Discharges:	Metered				
CSO Abatement Approach:	Presumptive Approach				
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls
Receiving Water Info: 303(d), TMDL, Sensitive areas	Hudson River	1301-0001	А	1	5

Facility Info: City of Pough	keepsie :	SPDES Permit #: NY0026255	Plant Flow: 14.0 MGD	
Additional Waterbody Information:	the NYS 2018 303(d) as impai	River receiving CSO discharges from the City of ired for Fish Consumption due to PCBs and many and many and many and information for this segment of Huward Many (1301-0001.html).	etals (cadmium) caused by	
		resumptive Approach with greater than 93% wing, and Modeling Plan report was approved	•	
LTCP Info: Dates submitted and approved, Issues, Approach, Status	overflows frequently occur at impact on the receiving strea pounds of biological oxygen of Recommendation includes eli	ndations: The initial findings in a 1983 report so the Pine St. Pump Station; summer period has m's best usage; and CSO discharges contribudemand per day and 0.42 million gallons per diminating dry weather overflows through trunkasin flows from the pump station, and monitor.	s the greatest potential te an average of 330 day to the Hudson River. c tunnels at Pine and	
	Recommended Approach to Control CSO Discharges: The 2007 LTCP report concluded that sewer separation was the most effective CSO control. Therefore, the plan recommended sewer separation projects at Pine St. to reduce or eliminate CSO discharges, to continue implementation of CSO BMPs, to install flow meters at CSO outfalls, and to eliminate CSO discharges at Fallkill Creek, Riverview, and Albany St.			
	Approved Controls Include: R	ecommended approach was approved.		
PCCM: Status	monitors and documents the maintained at the POTW loca	PCCM in 2011 and reassessed in 2016. The Clocal precipitation amounts with rain gauge at ted at Kitridge Pl. The City conducted a 5 more from June–October 2021. The next round of	nd weather stations that are ath continuous water sampling	
Implementation Status:	several years. The City of Pour The latest major LTCP milesto 007, which was completed in a year of flow monitoring, through permanently close and reque 20,000 LF of sewer and insperand cleaned 44 manholes and Ongoing projects include rehoseptember 2020, the City consewer flows from 2018–2020 24,000 LF of sewer CCTV dispost-construction monitoring project engineer stated that be GIGP project would eliminate the dates of the remaining LT \$3.5M grant to line the 40-inc	projects that are intended to reduce or eliminal alghkeepsie is on schedule with the implementation of the was the separation of combined sewer trib. November 2020 with weir installation and is obugh November 2021. Following completion of cough November 2021. Following completion of the climinate Outfall 007 from the permit. In sected 346 manholes. In 2020, the City performed 62 sewer lines (16,000 LF sanitary and 1,000 abilitation of the Meyer Ave., Cedar Ave., and insultant completed an engineering report inverse, which included flow monitoring, groundwate accovering many cracks, fractures, or large holes of the Riverview CSO separation, recording for eased on current understanding of the system overflows. A permit application was submitted CP milestones, which is still being developed. The brick sewer that parallels the Fallkill Creek, mext LTCP milestone (separation of CSOs tribustics)	tation of the approved LTCP. Dutary to the Riverview CSO Currently being verified with of construction, the City will 2019, the City televised ned 691 manhole inspections, of LF combined sewer). Pine St. Pump Stations. In destigating the source of high or metering devices, and destine in 2021, the City performed our overflow events. The of completion of the Liberty St. d in November 2021 to modify The City was awarded a and the City plans to actively	

Facility Info: Target Hill WWTP SPDES Per		nit #: NY0023761		Plant Flow: 2.06 MGD	
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current
	CSO outfalls:		1	-	1
Collection System:	Percentage of collection system that is combined:		20	-	20
Current info on CSO	Length of CSS (miles):		3.4	-	3.4
outfalls, overflows, volume capture, CSS	Average annual CSO events:		2	-	0
area, population served	Average annual CSO volume (MG):		0.66	-	0
	Population served by collection system:		13,500	-	13,500
	Number of satellite system connections:		0	0	0
Measurement Type for CSO Volume Discharges:	Estimated				
CSO Abatement Approach:	Unknown				
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls
Receiving Water Info: 303(d), TMDL, Sensitive areas	Hudson River	1301-0003	В	Y	1

Facility Info: Target Hill W	WTP SPDES Permit #: NY0023761	Plant Flow: 2.06 MGD
Additional Waterbody Information:	The segment of the Hudson River receiving CSO discharges from the Target NYS 2018 303(d) as impaired for Fish Consumption due to PCBs and metals contaminated sediment. Additional information for this segment of Hudson F www.dec.ny.gov/data/WQP/PWL/1301-0003.pdf .	(cadmium) caused by toxic/
LTCP Info: Dates submitted and approved, Issues, Approach, Status	Final CSO LTCP was approved on 1/24/2012. LTCP Findings and Recommendations: CSO discharges were discovered wh Academy (USMA) West Point was cited for unpermitted discharge of 66,000 sewage to the Hudson River via a newly discovered CSS outfall during dry vunpermitted discharge of 5,000 gallons of untreated sewage to the Sinclair referral also includes violations of SPDES permit effluent requirements at the Motor Pool Industrial Wastewater Treatment Plant (IWTP). Recommended Approach to Control CSO Discharges: Recommended control sewer separation, CSO storage, and continued implementation of the 15 CS include MS4 program aimed at protection of the non-CSO stormwater convethroughout the post, and correction of any illicit discharges from the sanitary system by tracking and redirecting the sanitary source. Approved Controls Include: The schedule of compliance includes Target Hill Improvement, South Dock PS Maintenance, SSO Response, and US Motor PUSMA West Point will submit engineering reports with proposed improvement.	gallons of untreated weather (3/13/2013), and for Pond Brook (4/2/2013). This e Target Hill WWTP and the cols include source control, O BMPs in the permit. Others evances and streams located y system into the storm
PCCM: Status	PCCM Plan includes monitoring of I/I reduction at Thayer Rd. and Williams R	d.
Implementation Status:	Permittee reported that it discovered one stormwater inflow to the SSS after line on Washington Rd. Permittee instituted a project in 2013 to remove roof system from nine older, mostly barracks buildings. The first building to be addressly in approximately 11,000 feet of roof drains being redirected from the SNo CSO discharges occurred in the 2015 calendar year. Permittee indicated at the Target Hill headworks confirms that a recent relining project of the sar Tower Rd. was effective in reducing overall baseline flows. Permittee continucollection system for storage through regular cleaning of the sanitary trunk I maintenance of pump stations. In 2018, the permittee discovered a new over a previously sealed separation of sanitary and storm sewers had failed. The seal and eliminated the possibility of sewer/storm connection in the summer removed, and the sewer line was re-lined. The permittee continued inflow so leaders) in 2019, as part of the barracks and academic building renovations. through 2022. The permittee also plans to implement newly improved FOG food service facilities to prohibit future blockage issues. In 2020, the facility U.S. Dept. of Army to American Water Military Services, LLC. In 2021, permittincluded installation of flow monitors and a rain gauge; collection of flow dat CCTV (64,000 LF) inspections; and smoke testing (72,000 LF). The study was along with an LTCP amendment for DEC review. A capital budget plan is being the findings. A new WWTP design was submitted in 2022 and is under review equalization basins that will reduce the hydraulic loading on the plant during	drain inlets to the sanitary dressed, Bartlett Hall, will canitary to the storm system. It that monitoring of flows nitary sewer trunk line in uses to maximize the use of ines and inspection and erflow location, in which permittee repaired the rof 2019. A blockage was reparation (primarily roof This work will continue program measures for the was transferred from the tee began an I/I study, which ta; lift station, manhole, and as completed mid-2022, and developed based on ew, which includes four

Facility Info: Town of Tico	conderoga SPDES Permit #: NY0036706 Plant Flow: 1.7					
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current	
	CSO outfalls:		2	2	1	
Outlier than Contains	Percentage of colle that is combined:	Percentage of collection system that is combined:		83	83	
Collection System: Current info on CSO	Length of CSS (mile	s):	20.1	19.7	19.7	
outfalls, overflows,	Average annual CS	O events:	38	18	2	
volume capture, CSS area, population served	Average annual CS	O volume (MG):	71	63	0.0336	
area, population served	Population served b	y collection system:	5,314	6,058	6,058	
	Number of satellite connections:	system	0	0	0	
Measurement Type for CSO Volume Discharges:	Information not available					
CSO Abatement Approach:	Presumptive Approx	Presumptive Approach				
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls	
Receiving Water Info: 303(d), TMDL, Sensitive areas	La Chute River	1006-0017	D	N	1	
Additional Waterbody Information:	for Recreation and A	Aesthetics due to aes on for this segment o	ving CSO discharges thetics (trash and deb f La Chute River can b	oris) caused by urban	stormwater runoff.	
	Final CSO LTCP was	s approved on 12/31/2	2007.			
LTCP Info:	intensity storms in p on hydraulic modeli Manhole 75 to the v storage prior to Out Amherst Ave. and C area prior to overflo	particular, the addition ng there appears to b vastewater treatment fall 002. No additiona hamplain Ave. The gr w at intermediate loc	<u> </u>	causes CSOs at sever ity in the trunk sewer, the potential for colle ists in combined sewer significant enough to	ral locations. Based extending from ection system ers extending up limit the surcharge	
Dates submitted and approved, Issues, Approach, Status	The plan recommended the Presumptive Approach's Criterion #1 for Outfall 003 via sewer extension and sewer separations to alleviate CSO discharges. The plan also recommended Presumptive Approach's Criterion #3 for Outfall 002, using primary clarification available within the WWTP.					
	Recommended Approach to Control CSO Discharges: The plan met the Presumptive Approach, and it requires the permittee to submit a schedule of compliance for design and construction and implementation of the selected CSO control methods and development of an operational plan and post-construction monitoring. Also, the completed controls must continue to meet the Presumptive Approach and WOS in the La Chute Piver.					
	Approach and WQS in the La Chute River. Approved Controls Include: Approved controls include implementation of CSO BMPs, such as floatables removal, hydraulic capacity modification, storage maximization, and sewer separation. The permittee will also embark on various capital improvements to increase WWTP secondary treatment capacity.					

PCCM:

Status

For Outfall 002 during the five-year reporting period from 2013 to 2017, the Town was in compliance with the LTCP Presumptive Approach Criterion #3. For Outfall 003, following construction of the new outfall structure, overflow events from 2014–2017 were in compliance with the LTCP (maximum of our events per year) and the SPDES permit (maximum of six events per year). The PCCM confirmed the LTCP is meeting the objectives of the EPA CSO Control Policy. Sampling was conducted again in 2020 and appears to indicate that other non-CSO sources may be contributing to pathogen pollutant loadings. However, the Town has not performed any additional tracking down or investigation of these sources

Outfall 002 is located at the treatment facilities, which consists of a stormwater storage basin overflow when incoming volume exceeds both the secondary treatment capacity and available storage. Every storm event resulting in an overflow event at Outfall 002 is monitored along with the capture rate of the secondary process and recycle of stormwater captured demonstrating equivalent primary treatment. A capital improvement plan was developed to increase capture rates by expansion of the secondary process and making available existing storage for peak flow conditions. At CSO Outfall 002, all flows receive preliminary screening, grit removal, and some sedimentation in the stormwater basins prior to blending with the WWTP secondary effluent and passing through UV disinfection, then discharge through Outfall 001 to La Chute River. The UV disinfection, as well as a secondary clarifier expansion project, were completed in 2019. A few (5 in 2019) manhole surcharges still occur at CSO 003 (Manhole 75); however, the Town plans to fully separate the sewer upstream to eliminate discharges at this location, including the planned Portage Sewer Separation Project. In 2019 the Town also proposed the development of a new plan to evaluate the existing system, identify CSO LTCP implementation progress, determine the Town's compliance with the CSO Policy and water quality, and serve as an updated LTCP-level document for future projects. DEC has acknowledged and agreed with the concept of this approach. In 2020, the Town continued separation work as part of the Portage Project, to separate 1.3 miles of sewer and reduce wet weather flows up to 48 cubic feet per second (cfs). The Town also purchased vortex grit removal units for installation at LaChute Ln. for stormwater flow separated from the CSO 003 sewershed. The Town is also working with a consultant to track cleaning and repairs with a GIS-mapped system to better manage assets (two sewer mains were cleaned in 2020).

Implementation Status:

As part of the modified SPDES permit, effective 8/1/2021, the compliance sampling point for the WWTP was relocated to a point after blending with their CSO Outfall 01A (formerly CSO 002). As a result, CSO Outfall 01A (002), will no longer be considered a CSO outfall, but rather a CSO-related bypass, which is allowable under the conditions of the SPDES permit. The CSO-related bypass receives the minimum treatment required, in accordance with the EPA CSO Control Policy, and is monitored, sampled, and limited by the WWTP Outfall 001 effluent limitations for protection of water quality.

In 2021, the City completed the Portage stormwater projects. In 2021, 1,000 feet of sewer line, along with 6 manholes and catch basins, was cleaned and inspected. A GIS system was developed to allow for tracking and scheduling of facility maintenance, repair, replacement, cleanings, or sediment.

The City is now planning on installation of storm sewer on Mt. Defiance Rd. The new plan described above is to be treated as a revised LTCP (included in 2021 permit to be due August 2023) and will likely include projects such as an inspection of the trunk main, inspection of areas to target next for separation, flow monitoring, drafting of updated LTCP, locating of laterals, and the planning of future collection system storm separation projects.

Facility Info: City of Utica		SPDES Permi	t #: NY0031429		Plant Flow: Varies
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current
	CSO outfalls:		82	34	35
0.11120	Percentage of collect that is combined:	ction system	44	40	40
Collection System: Current info on CSO	Length of CSS (miles	s):	-	-	102.15
outfalls, overflows,	Average annual CSC	events:	-	-	26
volume capture, CSS area, population served	Average annual CSO volume (MG):		-	-	41.33
area, population servea	Population served by collection system:		62,235	-	60,320
	Number of satellite system connections:		-	-	-
Measurement Type for CSO Volume Discharges:	Metered				
CSO Abatement Approach:	Presumptive Approach				
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls
Receiving Water Info: 303(d), TMDL, Sensitive	Ballou/Nail Creek	1201-0203	С	Y	29
areas	Mohawk River	1201-0093	С	Y	6

Facility Info: City of Utica	SPDES Permit #: NY0031429	Plant Flow: Varies
Additional Waterbody	The segment of the Ballou/Nail Creek receiving CSO discharges from the City of Unit NYS 2018 303(d) as precluded for Aquatic Life and Recreation due to nutrients and CSOs. Additionally, Ballou/Nail Creek is listed as impaired for Habitat/Hydrology du low DO caused by habitat modification. Additional information for this segment of E be found at https://www.dec.ny.gov/data/WQP/PWL/1201-0203.html .	I low DO caused by ie to nutrients and
Information:	The segment of the Mohawk River receiving CSO discharges from the City of Utica 2018 303(d) as precluded for Fish Consumption due to PCBs caused by toxic/conta Additionally, the Mohawk River is listed as impaired for Aquatic Life and Recreation (odor and floatables) and pathogens caused by CSOs and landfill disposal. Additionally, the Mohawk River can be found at https://www.dec.ny.gov/data/WQP/F	aminated sediment. due to aesthetics nal information for
	The final LTCP was approved on 4/30/2014 based on Presumptive Approach.	
LTCP Info: Dates submitted and approved, Issues,	<u>LTCP Findings and Recommendations:</u> LTCP-related activities are required to be conceided County activities addressing a major SSO and treatment plant upgrades to overloading.	
Approach, Status	Recommended Approach to Control CSO Discharges: LTCP plan proposes the Prewith controls including capacity increase to Oneida County WWTP, GI, five sewer seremote treatment at two CSOs, and SSO abatements.	
PCCM: Status	The PCCM will be submitted and implemented after completed construction of CSC PCCM Plan was due February 2022, but is currently still in development. In 2014, the installed three meters in accordance with SPDES permit requirements at Outfalls 0 CSO 076 contributes 85% of total CSO flow.	ne permittee
Implementation Status:	The LTCP initially required attainment of greater than 85% capture by 6/30/2022, be extended based on construction status. Construction of a remote treatment unit up 142 eliminated the CSO outfall and construction was completed in December 2020 be removed from the SPDES permit upon its next modification but has been accouns Statewide Annual Report). Attainment of the Presumptive Approach goal is expected following construction completion of the Oneida County WWTP expansion and address system. Construction of the HRD system began in 2018 and was completed by 12/3 expansion/HRD system provides separate headworks, grit removal, and primary treatment flows. Under normal conditions, the primary effluents will blend and restreatment and disinfection prior to discharge. During large wet weather events, who capacity is reached, the primary effluent from the CSS side of the WWTP will be dir HRD system and then discharged through WWTP Outfall 003. Due to the COVID-192020 planned projects were delayed, including the A9.1 project design and A9.2 Gravers, 700 square feet of infiltration area in rain gardens, and tree pits. The LTCP work will commence in 2023 and take approximately 1 year to finish. Additionally, the bore 900 LF of storm sewer under railroad tracks to remove storm flows from Railroad tracks	ostream of CSO In the outfall will Inted for in this Inted to be achieved Idition of CSO HRD Idition of CSO

Facility Info: Washington C	Facility Info: Washington County SPDES Permi		nit #: NY0183695		Plant Flow: Varies
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current
	CSO outfalls:		11	11	10
Collection System:	Percentage of collect that is combined:	ction system	90	80	75
Current info on CSO	Length of CSS (miles):		55	45	51.5
outfalls, overflows, volume capture, CSS	Average annual CSO events:		150	77	64
area, population served	Average annual CSO volume (MG):		8.29	9.9	>5.46
	Population served by collection system:		15,000	14,000	14,000
	Number of satellite system connections:		2	2	2
Measurement Type for CSO Volume Discharges:	Metered				
CSO Abatement Approach:	Presumptive Approach				
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls

Facility Info: Washington (County	SPDES Pern	nit #: NY0183695		Plant Flow: Varies
Receiving Water Info: 303(d). TMDL, Sensitive	Bond Creek	1101-0085	С	N	1
areas	Hudson River	1101-0044	С	Υ	10
Additional Waterbody	no known water qua	-	O discharges from Wa al information for this 01-0085.pdf.		
Information:	The segment of Hudson River receiving CSO discharges from Washington County Sewer District #2 is listed on the NYS 2018 303(d) as precluded for Fish Consumption due to PCBs caused by toxic/contaminated sediment. Additional information for this segment of Hudson River can be found at https://www.dec.ny.gov/data/WQP/PWL/1101-0044.html .				
LTCP Info: Dates submitted and approved, Issues, Approach, Status	LTCP Findings and Recommendations: The permittee developed a phased approach to first achieve SPDES permit compliance, and then monitor and measure the benefits of those projects. After the assessment of the benefits, the permittee will then prioritize future projects. This municipality meets the Presumptive Approach with greater than 93% wet weather volume captured. The Characterization, Monitoring, and Modeling Plan report was approved on 1/9/2008. Recommended Approach to Control CSO Discharges: The permittee complies with the Presumptive Approach with an estimated 92.6% capture of wet weather flows. Recommended plan proposed system maintenance, SCADA monitoring, and WWTP improvements to capture and covey more wet weather flows to the WWTP treatment plant.				
PCCM: Status	Approved Controls Include: Recommended controls were approved. PCCM has not been developed. Permittee planned to model the CSS to verify annual volume capture and verify compliance with the Presumptive Approach of the EPA CSO Control Policy. PCCM Plan will be expected nearer completion of the LTCP projects. The current milestone for PCCM Plan submission is December 31, 2023.				
Implementation Status:	In 2019, the permittee identified a major trunk sewer in need of significant replacement/ rehabilitation, which could reduce discharges from CSOs 007 and 008. CSO volumes from 2019 were increased from the past several years, likely attributed to significant number of high-intensity storms. In 2020, the County began the separation of 1,600 LF of sewer and completed several small repairs and cleanings throughout the system. The County also began design of LTCP Phase III (WWTP headworks and grit removal upgrades and digester improvements). In 2021, approximately 1,600 LF of gravity sewer was upgraded along Feeder St. in Village of Hudson Falls. Storm sewer within the service area of the project was separated.				

Facility Info: Town of Wate	Facility Info: Town of Waterford SPDES Pern				Plant Flow: 1.5 MGD
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current
	CSO outfalls:		2	2	2
Collection System:	Percentage of collect that is combined:	Percentage of collection system that is combined:		<10	<10
Current info on CSO	Length of CSS (miles	s):	<10	<10	<10
outfalls, overflows, volume capture, CSS	Average annual CSO events:		40	4-6	0
area, population served	Average annual CSO volume (MG):		10	<0.1	0
	Population served by collection system:		10,400	10,400	10,400
	Number of satellite system connections:		0	0	0
Measurement Type for CSO Volume Discharges:	Metered				
CSO Abatement Approach:	Presumptive Approach				
	Receiving Waterbody				
Receiving Water Info: 303(d), TMDL, Sensitive areas	Mohawk River	1201-0086	С	N	2

erford SPDES Permit #: NY0029173	Plant Flow: 1.5 MGD
unassessed and there is no water quality information available. Additional inform	ation for this segment
the 1990s to maximize flows to the treatment plant. Based on the existing project	ts, the report stated that
of wet weather flows, which exceeds the Presumptive Approach under the EPA C Proposed CSO controls include monitoring activities to document the operation the new storage tanks at the plant. Inspection and monitoring of the Front St. Pur suggest a floatables issue exists at the overflow. Additional investigations indicate	CSO Control Policy. and effectiveness of np Station does not e the largest source of
Approved Controls Include: Recommended controls were approved on 4/20/201	1.
completed major upgrades to the CSS and has been working in collaboration wit Communities to provide data to characterize the current conditions in the receivi will continue to monitor wet weather flow conditions moving forward in an effort diversions and management of the system. Ambient sampling is conducted at the coliform during the recreational season each year. The sampling locations are put	th the Albany Pool ng waters. The Town to optimize flow ree locations for fecal irposely selected to
Presumptive Approach. The Town has completed significant sewer separation single on metering data collected during the development of the Town's CSO LTCP, the been characterized as capturing and treating greater than 95% of wet weather fill improvements to maximize flows to the WWTP were completed in 2014 and 2015 continues to see significant reductions in the frequency and volume of overflows reassessment of compliance with the EPA CSO Control Policy every five years. Or recorded in 2017, totaling less than 1,200 gallons, and no CSO events occurred in notable projects from 2019 or 2020. The only event that occurred in 2020 was c Isaias, which consisted of 4.48 inches of rain over 14 hours (equivalent to the 25-Town updated the written maintenance and inspection program in 2022 to align No CSO events occurred in 2021; the Town upgraded several pump stations (full	Town's CSS has ows at the WWTP. 5, and the Town SPDES permit requires only two overflows were no 2019. There were no aused by Tropical Storm year storm level). The with current practices. replacement of James
	The segment of the Mohawk River receiving CSO discharges from the Town of W unassessed and there is no water quality information available. Additional inform of Mohawk River can be found at https://www.dec.ny.gov/data/WQP/PWL/1201-00 The Characterization, Monitoring, and Modeling Plan was approved on 7/5/2007 approved on 4/20/2011. The LTCP indicates that between 94.1% and 100% of wet captured. Therefore, the Town of Waterford meets the Presumptive Approach. https://www.dec.ny.gov/data/WQP/PWL/1201-00 The Characterization, Monitoring, and Modeling Plan was approved on 7/5/2007 approved on 4/20/2011. The LTCP indicates that between 94.1% and 100% of wet captured. Therefore, the Town of Waterford meets the Presumptive Approach. https://www.dec.ny.gov/data/WQP/PWL/1201-00 The Town is currently providing treatment of greater than 92.7% of wet weather flows is currently providing treatment of greater than 92.7% of wet weather flow tweather flows, which exceeds the Presumptive Approach under the EPA CP of wet weather flows, which exceeds the Presumptive Approach under the EPA CP of wet weather flows, which exceeds the Presumptive Approach under the EPA CP of wet weather flows, which exceeds the Presumptive Approach under the EPA CP of wet weather flows at the overflow. Additional investigations indicated inflow remaining to the CSS for the Front St. Pump Station is existing catch basing St., within the NYSDOT right-of-way.

Facility Info: City of Water	town	cility Info: City of Watertown SPDES Permi		PI	ant Flow: 16.0 MGD
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current
	CSO outfalls:		14	9	9
Collection System:	Percentage of collection system that is combined:		16.5	11	11
Current info on CSO	Length of CSS (miles	Length of CSS (miles):		37	37
outfalls, overflows, volume capture, CSS	Average annual CSO events:		87	91	70
area, population served	Average annual CSO volume (MG):		-	12.9	12.93
	Population served by collection system:		-	-	27,000
	Number of satellite system connections:		-	-	-
Measurement Type for CSO Volume Discharges:	Metered at 2 CSOs	only (001 and 004); Ti	It devices used at oth	er CSOs	
CSO Abatement Approach:	Presumptive Approa	Presumptive Approach			
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls
Receiving Water Info: 303(d), TMDL, Sensitive areas	Black River	0801-0250	С	N	9

Facility Info: City of Water	town SPDES Permit #: NY0025984	Plant Flow: 16.0 MGD			
Additional Waterbody Information:	The segment of the Black River receiving CSO discharges from the City of Watertown has no known water quality impacts. Additional information for this segment of Black River can be found at https://www.dec.ny.gov/data/WQP/PWL/0801-0250.html .				
	Final CSO LTCP was approved on 4/29/2011. The plan demonstrated that the C Presumptive Approach by capturing up to 88% annual average of wet weather	,			
LTCP Info: Dates submitted and	<u>LTCP Findings and Recommendations:</u> The plan identified that inflow upstream of Outfall 001 is the main cause of impairment in the receiving stream. The City had also implemented a CSO elimination program that has been in place since 1986, which has resulted in several sewer separation projects that have reduced the combined portion of the sewer system by nearly 33%.				
approved, Issues, Approach, Status	Recommended Approach to Control CSO Discharges: The City's LTCP is based Approach, with a calculated wet weather volume capture of 88% during an aver Various control projects are listed in the City's 5-year plan, including reconstruc sewers affecting CSO Outfalls 007, 015, 016, 020, 021, and 024.	rage precipitation year.			
	Approved Controls Include: Recommended controls were approved.				
PCCM: Status	The City currently has permanent and continuous flow monitoring and recording captured flows. Further, permanent and continuous flow monitoring also exists a Outfall 001 both immediately upstream of the CSO and on the overflow stream. formal maintenance program comprising written Standard Operating Procedure maintenance scheduling, work-order requests, and procedures for routine and	at the Western CSO The City also has a es (SOPs), preventative			
Implementation Status:	Permittee reported that volume capture has improved to 90.5%, more than pred Flow maximization to WWTP is achieved through effective use of collection systimplementation of an industrial pretreatment program. In 2020, the City continuin continuous flow meters at CSO outfalls into the WWTP SCADA system. The C digester transfer pump and continued with Phase 1B projects (modification of a scrubbing, and direct drive engine). No sewer separation was conducted in 202 manhole frames were reset or readjusted, 13,170 LF of sanitary sewer was televisanitary sewer was cleaned.	tem and the effective ued to investigate tying City also replaced the naerobic digesters, gas 20. However, multiple			
	In 2021, the volume capture at Outfalls 001 and 004 were both 99.9%. Seven of replaced with pre-cast structures. The City cleaned Lift Station #1 at Ives Hill and sewer together with 8-foot SDR-35 piping. Much like in 2021, multiple manhole with multiple storm inlets, and 4,340.2 LF of sanitary sewer and 1,833.9 LF of states.	d installed a new storm frames were reset along			

Facility Info: Westchester	Facility Info: Westchester County - Yonkers SPDES Perm		nit #: NY0026689	Pla	ant Flow: 92.0 MGD
			Before CSO BMP/LTCP Implementation	After CSO BMP/LTCP Implementation	Current
	CSO outfalls:		13	13	13
Collection System:	Percentage of collect that is combined:	ction system	7.1	7.1	6
Current info on CSO	Length of CSS (miles):		-	-	5.5
outfalls, overflows, volume capture, CSS	Average annual CSO events:		-	11	9
area, population served	Average annual CSO volume (MG):		-	-	329.44
	Population served by collection system:		-	-	509,921
	Number of satellite system connections:		-	-	22
Measurement Type for CSO Volume Discharges:	Metered at two CSC	outfalls			
CSO Abatement Approach:	Presumptive Approach				
	Receiving Waterbody	PWL No.	Waterbody Classification	Impaired (Y/N)	No. of CSO Outfalls
Receiving Water Info: 303(d), TMDL, Sensitive areas	Hudson River	1301-0094	SB	Y	13

Facility Info: Westchester	County - Yonkers	SPDES Permit #: NY0026689	Plant Flow: 92.0 MGD		
Additional Waterbody Information:	on the NYS 2018 303(c by toxic/contaminated Recreation due to path	didson River receiving CSO discharges from the Yol) as impaired for Fish Consumption due to PCBs sediment. Additionally, the segment of the Hudsongens caused by CSOs and urban stormwater run River can be found at https://www.dec.ny.gov/c	and metals (cadmium) caused on River is also stressed for unoff. Additional information for		
	Trunk Sewer; building r conveying the maximu Pump Station, the Sout	ed and constructed in five phases. The plan invo- relief sewers; raising regulator weirs to minimize to m amount of combined sewage to the treatment th Yonkers Screen House, and the Yonkers Joint 15. The County is in the PCCM phase of the LTCP.	the discharge of pollutants; and facilities at the North Yonkers		
	LTCP Findings and Rectified the outfalls.	commendations: The LTCP report concluded that	over 90% of CSOs occur at 5 of		
LTCP Info: Dates submitted and approved, Issues, Approach, Status	recommend a series of pumping capacity to ro at the North Yonkers Po Screen House. The CS	ach to Control CSO Discharges: The permittee us f abatement controls, including sewer and regula oute more flow to the treatment plant, constructio ump Station, and construction of a CSO treatment of treatment facilities at North Yonkers and Southables removal and disinfection.	ntor improvements and increased on of a CSO treatment facility of facility at the South Yonkers		
	<u>Approved Controls Include:</u> Treatment facilities at North Yonkers Pump Station, sewer and regulator improvements for North Yonkers Collection System, additional pumping station capacity at three main pumping stations, treatment facilities at South Yonkers Screen House, and sewer and regulator improvements.				
	South Yonkers Screen	entered a Consent Order with DEC to address ra House Overflow Facility. The Order included an i ents and modifications to the internal structures o	implementation schedule for both		
PCCM:	facilities. The final reposampling program is repermit cycle. The PCCI	eed an initial PCCM Plan in 2007 to assess the import was completed by the County and approved be equired to be performed once every five years in M Plan estimated that Yonkers WWTP and CSO to 6% of wet weather flows.	by DEC on 9/22/2008. The conjunction with their SPDES		
Status	that water quality in the and CSO treatment fac 2020, and provided sir	ne PCCM was performed to analyze bacteria and e Hudson River was not impacted by CSO discha cilities. Another reassessment was performed in 2 milar results to 2007. Additional sampling was to andemic, the sampling was deferred to 2022.	rges from the Yonkers WWTP 2019, submitted to DEC in March		
Implementation Status:	County-owned trunk sealso performed internal approximately 9,700 LF resulting in a discharge cleared. An additional County continued ongoing regulator access through reported inspection and began design for upgrade/rehab of the Additionally, 11,200 LF Additionally, 11,200 LF	lized an outside contractor to clean and televise ewers in the North, South, and Central Yonkers Soul inspection of the Saw Mill Trunk Sewer Tunnel at F of sewer. In 2019, the County had 1 dry weather e of 2,400 gallons at the Pier St. regulator. The lin 744 LF of sewer was cleaned in 2019 in the South oing replacement of tide gates (per Order on Corgh 2019 and 2020, and completed replacement of cleaning of 19,027 LF of County-owned sewers ades to the Ludlow St. and Main St. pump station Alexander St. Influent Chambers and channels to of sewer cleaning/inspection was performed outsistrict). In 2022, the County planned to begin des	ewer Districts. The County and entrance sewer, totaling overflow, caused by a blockage, he was subsequently jetted and he Yonkers sewer district. The insent) and improvement of on 12/3/2020. The County also is in 2020. In 2021, the County is, and continued design for the the North Yonkers Pump Station.		
		he deferred PCCM sampling that was delayed du	•		

Definition of Terms and Abbreviations

Best Management Practices (BMP) – In a wastewater context, BMPs consist of various technical or managerial strategies intended to address a specific problem or guide an activity while being efficient and cost-effective.

BOD5 – Five-day Biochemical Oxygen Demand

CCTV - Closed-Circuit Television

CBOD5 – Five-day Carbonaceous Biochemical Oxygen Demand

Clean Water Act (CWA) – The primary federal law governing water pollution control. Passed in 1972, this act relies upon the Federal Water Pollution Control Act amendments of 1972 for much of its authority.

Combined Sewer Overflow (CSO) – A discharge of untreated wastewater from a CSS at a point before the headworks of a publicly owned treatment works (POTW). CSOs generally occur during wet weather (rainfall or snowmelt) and combine a mixture of stormwater runoff and untreated sewage.

Combined Sewer System (CSS) – A sewer system which conveys sewage and stormwater through a single pipe system to a POTW wastewater treatment plant.

Compliance Schedule – A schedule of remedial measures included in a permit or legally enforceable action, with a sequence of interim requirements (e.g., actions, operations, or milestone events) leading to compliance with the CWA and regulations.

CSO Communities – Municipalities with SPDES permits to own and maintain CSSs.

CSO Event – An overflow event is one or more overflows from a CSS as the result of a precipitation event that does not receive the minimum CSO treatment requirements.

DO - Dissolved oxygen

Dry Weather Flow (DWF) – All flow in a sewer (includes sanitary flow and infiltration) except that caused directly by rainfall. Measured during a period of extended dry weather (7–14 days) and seasonally high groundwater.

ECL – Environmental Conservation Law: The body of law that established DEC and authorizes its programs, often abbreviated as ECL. The full text of New York's ECL is found on the New York State Legislative Information System.

Gray Infrastructure – Most commonly refers to conventional infrastructure: pipes, tanks, sewage collection systems, and drinking water systems. While not always

grey in color, these infrastructure assets typically provide underlying support to a modern and economically developed society.

Green Infrastructure (GI) – Represents an approach to wet weather management that is cost-effective, sustainable, and environmentally friendly. This approach commonly involves the use of permeable pavement, rain barrels, or "green" roofs. Often these devices intend to divert stormwater runoff from a sanitary sewer, where it can cause an overflow and result in a public health or environmental situation.

Infiltration – Water other than sanitary wastewater that enters a sewer system from the ground through defective pipes, pipe joints, connections, or manholes.

Inflow – Water other than sanitary wastewater that enters a sewer system from sources such as roof leaders; cellar/foundation drains; yard drains; area drains; drains from springs and swampy areas; manhole covers; cross-connections between storm sewers and sanitary sewers; and catch basins. Inflow does not include infiltration.

Long Term Control Plan (LTCP) – A LTCP is a phased approach for control of CSOs that requires the permittee to develop and submit an approvable plan that will ultimately result in compliance with New York State WQS and Clean Water Act requirements.

Modeling – Modeling flows typically involves using hydrologic and hydraulic to estimate flows influent to the sewer system.

Municipal Separate Storm Sewer System (MS4) – A conveyance or system of conveyances that is:

- Owned or operated by a state, county, or other public body created by state law, having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes;
- Designed or used for collecting or conveying stormwater;
- Not a combined sewer; and
- Not part of a publicly owned treatment works.

National Pollutant Discharge Elimination System (NPDES) – The federal Clean Water Act authorized development of NPDES for implementing requirements for all discharges to surface waters of the United States (NPDES does not cover discharges to ground water). Under New York's ECL, DEC administers the state's program for meeting the requirements of NPDES.

Order on Consent – A legally binding agreement negotiated by DEC and a SPDES permittee, which addresses specific violations and includes provisions for a payable penalty. An Order on Consent may also include suspended and/or stipulated penalties, interim effluent limitations, and a compliance schedule for corrective action.

PCBs – Polychlorinated Biphenyls

Post-Construction Compliance Monitoring (PCCM) – A program adequate to verify compliance with WQS and protection of designated uses as well as to ascertain the effectiveness of CSO controls. The PCCM Program includes a plan that details the monitoring protocols to be followed; effluent and ambient monitoring; and reporting of sampling results.

Publicly Owned Treatment Works (POTW) – A municipal wastewater treatment facility owned by a state or municipality.

Sanitary Sewer Overflow (SSO) – The occasional, unintentional discharge of raw sewage from municipal sanitary sewers. These discharges can occur at sewage pump stations, manholes, or in home basements.

Sanitary Sewer System (SSS) – Pipelines or conduits, pumping stations, force mains, and all other constructions, devices, and appliances appurtenant thereto, used for conveying municipal sewage, industrial waste or other wastes, alone or in combination to a disposal system.

SCADA – Supervisory Control and Data Acquisition

Secondary Treatment – The technology-based requirement for direct discharging by a POTW. Secondary treatment consists of a combination of physical and biological processes typical for the treatment of pollutants in sewage.

Sewage Pollution Right to Know Act (SPRTKA) – This is a New York State law that that went into effect May 1, 2013. This law requires the reporting of untreated or partially treated sewage discharges, also known as bypasses, from POTWs. The law imposes new reporting requirements for POSSs and CSOs. The first phase of the SPRTKA provides a system for collecting reports of these discharges. The second phase, currently under development, will provide regulations to require POTWs and POSSs to directly notify the public of discharges of untreated or partially treated sewage.

State Pollutant Discharge Elimination System (SPDES) – The SPDES program goes beyond requirements of the federal NPDES program in that SPDES also regulates discharges to the groundwater of the state. The minimum threshold for applicability of SPDES to groundwater discharges is 1,000 gallons per day for sanitary wastewater, while discharges including any industrial wastewater

have no minimum threshold. New York State Department of Health regulates discharges of less than 1,000 gallons per day, consisting of only sanitary wastewater.

Stormwater Pollution Prevention Plan (SWPPP) – This document, based on sound engineering practices, details erosion and sediment controls during construction and post-construction stormwater control practices.

STP – Sewage Treatment Plant

Total Maximum Daily Load (TMDL) – A calculation of the maximum amount of a pollutant or multiple pollutants that a waterbody can receive and still meet WQS.

Total Suspended Solids (TSS) – Listed as a conventional pollutant in the Clean Water Act of 1972, TSS is a measurement of solids that are visible or in suspension of a water sample. SPDES permits extensively require this analysis as an effective means to measure the quality of water discharged.

Water Quality Standard (WQS) – Such measures of purity or quality for any waters in relation to their reasonable and necessary use as promulgated in Part 700, et seq. of 6 NYCRR.

Wet Weather Flow – The highest daily flow during and immediately after a significant storm event. Includes sanitary flow, infiltration, and inflow.

Wet Weather Operating Plan – A document used by wastewater collection or treatment staff to provide guidance on operational changes to make during wet weather conditions. These changes allow for the highest degree of treatment when flows exceed design standards.

WI/PWL - Waterbody Inventory/Priority Waterbodies List

WPCP - Water Pollution Control Plant

WRRF - Wastewater Resource Recovery Facility

WWTF – Wastewater Treatment Facility

WWTP – Wastewater Treatment Plant

Additional definitions of terms and abbreviations:

Click here for additional terms and abbreviations

New York State Surface Waters Classifications (6 NYCRR Part 701)

Table 8 - New York State Surface Waters Classifications (6 NYCRR Part 701)	
Classification	Usage Usage
Class AA-Special Fresh Surface Waters	a. The best usages of Class AA-S waters are: a source of water supply for drinking, culinary, or food processing purposes; primary and secondary contact recreation; and fishing. The waters shall be suitable for fish, shellfish, and wildlife propagation and survival.
	b. These waters shall contain no floating solids, settleable solids, oil, sludge deposits, toxic wastes, deleterious substances, colored or other wastes, or heated liquids attributable to sewage, industrial wastes, or other wastes.
	c. There shall be no discharge or disposal of sewage, industrial wastes, or other wastes into these waters.
	d. These waters shall contain no phosphorus and nitrogen in amounts that will result in growths of algae, weeds, and slimes that will impair the waters for their best usages.
	e. There shall be no alteration to flow that will impair the waters for their best usages.
	f. There shall be no increase in turbidity that will cause a substantial visible contrast to natural conditions.
Class A-S Fresh Surface Waters	a. The best usages of Class A-S waters are: a source of water supply for drinking, culinary, or food processing purposes; primary and secondary contact recreation; and fishing. The waters shall be suitable for fish, shellfish, and wildlife propagation and survival.
	b. This classification may be given to those international boundary waters that, if subjected to approved treatment equal to coagulation, sedimentation, filtration, and disinfection, with additional treatment if necessary to reduce naturally present impurities, meet or will meet New York State Department of Health drinking water standards and are or will be considered safe and satisfactory for drinking water purposes.
Class A-A Fresh Surface Waters	a. The best usages of Class AA waters are: a source of water supply for drinking, culinary, or food processing purposes; primary and secondary contact recreation; and fishing. The waters shall be suitable for fish, shellfish, and wildlife propagation and survival.
	b. This classification may be given to those waters that, if subjected to an approved disinfection treatment, with additional treatment if necessary to remove naturally present impurities, meet or will meet New York State Department of Health drinking water standards and are or will be considered safe and satisfactory for drinking water purposes.
Class A Fresh Surface Waters	a. The best usages of Class A waters are: a source of water supply for drinking, culinary, or food processing purposes; primary and secondary contact recreation; and fishing. The waters shall be suitable for fish, shellfish, and wildlife propagation and survival.
	b. This classification may be given to those waters that, if subjected to approved treatment equal to coagulation, sedimentation, filtration, and disinfection, with additional treatment if necessary to reduce naturally present impurities, meet or will meet New York State Department of Health drinking water standards and are or will be considered safe and satisfactory for drinking water purposes.
Class B Fresh Surface Waters	The best usages of Class B waters are primary and secondary contact recreation and fishing. These waters shall be suitable for fish, shellfish, and wildlife propagation and survival.
Class C Fresh Surface Waters	The best usage of Class C waters is fishing. These waters shall be suitable for fish, shellfish, and wildlife propagation and survival. The water quality shall be suitable for primary and secondary contact recreation, although other factors may limit the use for these purposes.
Class D Fresh Surface Water	The best usage of Class D waters is fishing. Due to such natural conditions as intermittency of flow, water conditions not conducive to propagation of game fishery, or stream bed conditions, the waters will not support fish propagation. These waters shall be suitable for fish, shellfish, and wildlife survival. The water quality shall be suitable for primary and secondary contact recreation, although other factors may limit the use for these purposes.
Class SA Saline Surface Waters	The best usages of Class SA waters are shellfishing for market purposes, primary and secondary contact recreation and fishing. These waters shall be suitable for fish, shellfish, and wildlife propagation and survival.
Class SB Saline Surface Waters	The best usages of Class SB waters are primary and secondary contact recreation and fishing. These waters shall be suitable for fish, shellfish, and wildlife propagation and survival.

Table 8 - New York State Surface Waters Classifications (6 NYCRR Part 701)		
Classification	Usage	
Class SC Saline Surface Waters	The best usage of Class SC waters is fishing. These waters shall be suitable for fish, shellfish, and wildlife propagation and survival. The water quality shall be suitable for primary and secondary contact recreation, although other factors may limit the use for these purposes.	
Class I Saline Surface Waters	The best usages of Class I waters are secondary contact recreation and fishing. These waters shall be suitable for fish, shellfish, and wildlife propagation and survival.	
Class SD Saline Surface Waters	The best usage of Class SD waters is fishing. These waters shall be suitable for fish, shellfish, and wildlife survival. This classification may be given to those waters that, because of natural or man-made conditions, cannot meet the requirements for primary and secondary contact recreation and fish propagation.	











