



CAPITAL DISTRICT
**Regional
Planning
Commission**

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September 14, 2017

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Wastewater Permits Section, Division of Water
NYSDEC
625 Broadway, 4th Floor
Albany, NY
12233-3506

Re: Albany Pool Communities 2017 First Term Semi-Annual Report

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Mr. Maier,

As the designated Program Coordinator on behalf of the Albany Pool Communities CDRPC herewith submits to the Department the Albany Pool Communities 2017 First Term Semi-Annual Report. This Semi-Annual Report sets forth the status of progress made by the Pool Communities and two County Sewer Districts in complying with the milestones set forth in the Order between January 1, 2017 and June 31, 2017.

In the November 13, 2014 semi-annual report comment letter from DEC to the respondents, the Department requested a “table that reports the details of each community shall be updated in each report to indicate any changes in volumes captured, population/area trends...” Because US Census population estimates are not available until the following calendar year, the 2016 population projections for the CSO communities for the 2016 Second Term Semi Annual report became available only recently. The 2016 population data has been provided with this report.

If you have questions about the report please do not hesitate to contact me.

Sincerely,

Martin Daley
Environmental Planner

Encl.

Albany Pool Communities
Combined Sewer Overflow Long Term Control Plan

CSO Order on Consent
DEC Case #CO 4-20120911-01

SEMI-ANNUAL STATUS REPORT

First TERM, 2017
(January 1 to June 31)

September 14, 2017

Table of Contents

1.0 Introduction	1
2.0 Critical Events this Term	1
3.0 Major Actions This Term	1
4.0 Performance against Order Deadlines	3
5.0 Deadlines for Upcoming Reporting and Associated Issues	4
6.0 Description of Work Performed	6
8.0 Community Relations	6
Appendix A (Project Sheets)	10
Appendix B (Population Data)	58
Appendix C (CSO Reduction Data)	60

1.0 INTRODUCTION

The Albany Pool Communities Combined Sewer Overflow Long Term Control Plan Order on Consent (DEC Case #CO 4-20120911-01) was entered into by the Albany Pool Communities (APCs), Albany County Sewer District, the Rensselaer County Sewer District (Collectively the Respondents) and The New York State Department of Conservation (DEC) on January 15th, 2014.

Six municipalities in the greater Albany area of New York State make up the Albany Pool Communities and consist of the Cities of Albany, Cohoes, Rensselaer, Troy and Watervliet, and the Village of Green Island.

Pursuant to the Order, Respondents shall submit written Semi-Annual Status Reports to the Department. The Semi-Annual reports shall describe the actions that have been taken toward achieving compliance with this Order during the past 6-month period.

This Semi-Annual Report sets forth the status of any progress made by the Pool Communities and two County Sewer Districts in complying with the milestones set forth in the Order between **January 1, 2017 and June 31, 2017**.

In the November 13, 2014 semi-annual report comment letter from DEC to the respondents, the Department requested a “table that reports the details of each community shall be updated in each report to indicate any changes in volumes captured, population/area trends...” Because US Census population estimates are not available until the following calendar year, the 2015 population projections for the CSO communities for the 2015 Second Term Semi Annual report became available only recently. Thus, the 2015 population data has been provided herein.

2.0 CRITICAL EVENTS THIS TERM

None.

3.0 MAJOR ACTIONS THIS TERM

BMP-6, “18th Street and Avenue A Regulator Optimization”

On March 29, 2017, the Albany Pool Joint Venture Team (APJVT), on behalf of the City of Watervliet (City) and the Albany Pool Communities (APCs), requested a modification in scope for the 18th Street and Avenue A Regulator Improvements Project (Project) as required by Order on Consent CO 4-20120911-01. The Project was described in the LTCP as “an optimization project that includes modification of the existing regulator structure, increasing the size of the connection pipe.” The purpose of the Project is to increase combined sewage flows to the City’s Gas House Interceptor by replacing the sewer between the regulator and the interceptor; thus, reducing the frequency and volume of CSOs at outfall W-005.

The Plan and Spec for the project, submitted on September 30, 2016, provided a narrative from the engineering team that indicated a scope change may be needed. Following an investigation, it was determined that the interceptor sewer was not structurally compromised as originally suspected, and that debris found partially blocking the interceptor, may have originated from a catch basin. The project engineer submitted a scope modification request to NYSDEC on March 29, 2017. The request stated that replacement of the 10-inch line was an unnecessary cost given the effectiveness of removing the existing orifice and based on the condition of the connecting sewer. The City pledged to continue to monitor this area in accordance with the program established in the OM&I Plan, and report to the Department any future issues they may experience.

On April 7, the Department responded to the Modification Request. The Department inquired as to whether the December 15, 2017 construction completion date milestone for Project BMP-06 or any other milestone in the Schedule of Compliance in the above-referenced Order on Consent would be affected. The Department conditionally approved the City's request to perform the work -- removal of the existing orifice plate at the regulator-- with in-house staff/resources conditioned, in part, on the Department's receipt of written confirmation of no known scheduling impacts.

Approval was further contingent on the Department's receipt of an approvable report specifying a plan to identify and evaluate upstream sources of debris and a schedule to inspect, clean and if necessary, repair sewer lines upstream of the 18-inch interceptor by the December 15, 2017 milestone date for Project No. BMP-06.

The Department also required that the City's 25th Street regulator be plugged and the outfall sewer abandoned in place due to no observed overflows at this location and that this work was to be completed by the December 15, 2017 construction completion date milestone.

The Department offered conditional forbearance from enforcement during the period from April 1 - May 22, 2017 while the City prepared the required response.

On May 22, the Albany Pool Joint Venture Team (APJVT), on behalf of the City of Watervliet (City) and the Albany Pool Communities (APCs), submitted a response memo to the Department, confirming that there is no known impact on the construction schedule, with a completion milestone date of December 15, 2017, as the Project scope as amended and conditionally and approved.

The APJVT asserted that based upon examination of the debris, there was a strong likelihood the debris entered the system from an upstream catch basin. The diameter of the debris found also lead the Team to believe there's only a finite section of the upstream system from which the debris could have originated and traveled through the sewer.

An approvable schedule to permanently plug the 25th Street regulator by the December 15, 2017 was included in the memo, as was as a plan and schedule to identify and evaluate possible upstream sources of debris at the 18th St and Avenue A interceptor.

On July 17, 2017 the City submitted a memo to the Department documenting the permanent plug installation at the 25th St. bypass. Photo documentation of the concrete bypass plug was enclosed.

On August 29, 2017 The APJVT, on behalf of the City of Watervliet and the APCs, submitted a memo summarizing their review of CCTV inspection that was completed in general conformance with the Collection System Assessment Workplan, dated May 22, 2017. The memo concluded that no structural deficiencies were observed in any of the upstream sewers that were included in the Workplan. No further investigations are scheduled to commence at this time.

The city is on schedule to modify the 18th St. regulator.

4.0 PERFORMANCE AGAINST ORDER DEADLINES

Additional details on project development can be found in the project sheets, Appendix A.

Table 1 – Milestones Certified this Term (January 1 – July 31, 2017)

Unique Identifier	Item Description	Responsible Party (LTCP)	Project Location	Action Required	LTCP Milestone Date	Milestone Met	Status
STCF-03	"Big C" Disinfection and Floatables Control Facility	APCs	Albany	Begin SEQR & Eminent Domain 2/1/17	2/1/2017	1/20/2017	Milestone met.
BMP-06	18th St. and Ave. A Weir Improvements	APCs	Watervliet	NTP to Construction	4/1/2017	3/29/2017	The Communities negotiated a modification to the project scope with DEC. The regulator modification is on schedule.
BMP-07	Improvements at Five Regulators	APCs	Watervliet	NTP to Construction	4/1/2017	3/28/2017	This project was completed on 9/7/17

BMP-08	Improvements at up to Eleven Regulators	APCs	Cohoes	NTP to Construction	4/1/2017	3/27/2017	This project was completed on 7/18/17.
BMP-09	Swan St. and Hamilton St. Regulator Improvements	APCs	Green Island	NTP to Construction	4/1/2017	3/9/2017	Project Completed on 6/20/17.
PIW-01	Primary Sludge Degritting	RCSD	RCSD	NTP to Construction	4/1/2017	3/31/2017	Project proceeding on schedule.
SSS-04	George St. Sewer Separation	APCs	Cohoes	NTP to Construction	4/1/2017	4/5/2015	Project Completed on 6/11/2015.
SSS-05	Middle Vliet St. Sewer Separation	APCs	Cohoes	NTP to Construction	4/1/2017	3/30/2017	Project proceeding on schedule.

5.0 DEADLINES FOR UPCOMING REPORTING PERIOD AND ASSOCIATED ISSUES

Table 2, below, reflects the activities and deadlines established in Appendix B of the Order during the upcoming six-month reporting period. No issues or delays are anticipated. More details on project status can be found in the project sheets, Appendix A of this report.

Table 2 – Milestones next Term (August 1, 2017 – December 31, 2017)

Unique Identifier	Item Description	Responsible Party (LTCP)	Project Location	Action Required	LTCP Milestone Date	Milestone Met	Status
GI-08	Completion of a Feasibility Assessment for a "Green Infrastructure Banking System"	APCs	N/A	Task Completion Date	8/1/2017	4/3/2017	Task completed on 4/3/17.
GI-09	Green Infrastructure Technical Design Guidance	APCs	N/A	Task Completion Date	8/1/2017	8/1/2017	Task completed on 8/1/17.

BMP-10	Outside Community Metering	APCs	Troy	Completed Plans & Specs	10/1/2017		Project proceeding on schedule.
SSS-07	Hoosick St. Storm Sewer Extension	APCs	Troy	Completed Plans & Specs	10/1/2017		Project proceeding on schedule.
STCF-01	Floatables Control Facility for CSO 026 Outfall (Regulators Maiden, Steuben and Orange)	APCs	Albany	Completed Plans & Specs	10/1/2017		Project proceeding on schedule.
STCF-02	Floatables Control Facility for CSO 030 Outfall (Regulators Quackenbush, Jackson and Livingston)	APCs	Albany	Completed Plans & Specs	10/1/2017		Project proceeding on schedule.
APW-05	Asset Management Plans	Albany Water Board, Cohoes, Watervliet, Green Island	Albany County	Task Completion Date	12/1/2017		Project proceeding on schedule. Mapping and survey work have been completed.
BMP-06	18th St. and Ave. A Weir Improvements	APCs	Watervliet	Construction Completion Date & Operational Start Up Date	12/15/2017		Project proceeding on schedule.
BMP-07	Improvements at Five Regulators	APCs	Watervliet	Construction Completion Date & Operational Start Up Date	12/15/2017		This project was completed on 9/7/17.
BMP-08	Improvements at up to Eleven Regulators	APCs	Cohoes	Construction Completion Date & Operational Start Up Date	12/15/2017		This project was completed on 7/18/17

BMP-09	Swan St. and Hamilton St. Regulator Improvements	APCs	Green Island	Construction Completion Date & Operational Start Up Date	12/15/2017	4/21/2017	Project Completed on 6/20/17.
GI-05	Route 32 Green St. Project	APCs	Watervliet	Construction Completion Date & Operational Start Up Date	12/15/2017	1/30/2017	Project Completed on 1/30/17.
SSS-04	George St. Sewer Separation	APCs	Cohoes	Construction Completion Date & Operational Start Up Date	12/15/2017	6/11/2015	Project Completed on 6/11/2015.
SSS-05	Middle Vliet St. Sewer Separation	APCs	Cohoes	Construction Completion Date & Operational Start Up Date	12/15/2017		Project proceeding on schedule.
TE-04	Investigate Non-CSO Bacteria Sources Along Mill Creek, Poesten Kill, & Wynants Kill	APCs	Troy	Task Completion Date	12/15/2017		Project proceeding on schedule.

6.0 DESCRIPTION OF ADDITIONAL WORK PERFORMED

Project sheets for Compliance Schedule projects that have been completed, or are active during this reporting period are included with this report as **Appendix A**.

8.0 COMMUNITY RELATIONS

CDRPC continues to maintain the CSO Corporation website (<http://cdrpc.org/programs/water-quality/combined-sewer-overflow-cso/albany-cso-pool-communities-corporation/>) This page functions as the primary communication tool for the Pool communities, featuring information and links for the LTCP, the Discharge Notification System, and meeting schedules for the Pool IMA Board. A section titled "Albany Pool Communities CSO Long Term Control Plan in the News" functions as a clearing house for Pool projects and programs that have been featured in the media.

CDRPC staff attends monthly MS4 working group meetings for both Albany and Rensselaer County, informing coalition members on the progress of the LTCP. CDRPC is also a participant of the Albany County Water Quality Working Group, a body that also meets monthly, to share program progress.

I certify under penalty of law that I have examined and am familiar with the information submitted in this document and all attachments and that this document and its attachments were prepared under my direction or supervision in a manner designed to ensure that qualified and knowledgeable personnel properly gather and present the information contained therein. I further certify, based on my inquiry of those individuals immediately responsible for obtaining the information, that I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

City of Rensselaer

Municipality / Entity



Signature

MARK HENDRICKS

Name

ENGINEERING ASSE

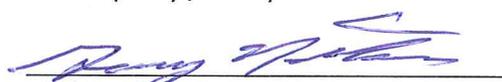
Title

9/12/17

Date

City of Cohoes

Municipality / Entity



Signature

Gerry Nathan

Name

City Engineer

Title

9/14/17

Date

City of Troy

Municipality / Entity



Signature

Chris Wheland

Name

Superintendent

Title

9/14/17

Date

City of Albany

Municipality / Entity



Signature

William D. Sincera, PE

Name

Deputy Commissioner

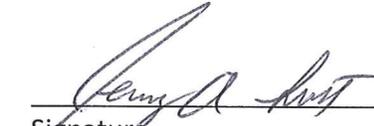
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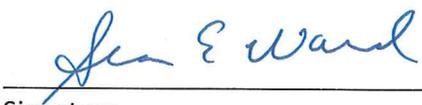
7-14-17

Date

City of Watervliet
Municipality / Entity

Village of Green Island
Municipality / Entity


Signature


Signature

Jeremy A. Smith
Name

Sean E. Ward
Name

General Manager
Title

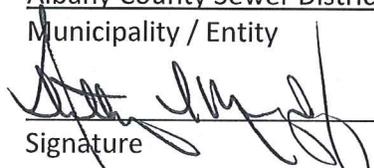
Executive Assistant to the Mayor
Title

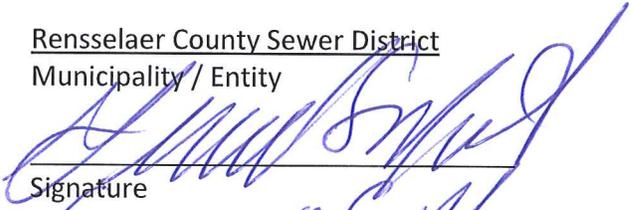
9-14-17
Date

9/14/17
Date

Albany County Sewer District
Municipality / Entity

Rensselaer County Sewer District
Municipality / Entity


Signature


Signature

Timothy S. Murphy
Name

GERARD S. MOSCA
Name

Executive Director
Title

Admin. Director
Title

9-14-17
Date

9/14/17
Date

Appendix A: Project Sheets

APW-06

GI-06 Documentation/Reporting of New Public and Private Green Projects

Project Description:

The objective of this task is to provide a mechanism by which to document the installation of “green practices or infrastructure” within the individual communities; and to assess the use of green practices within new development and redevelopment projects for both public and private sectors.

Purpose:

This task will document the extent and acceptance of green strategies within the APCs, and will generate the estimated runoff volume reduction on an annual basis.

Contact Information:

Martin Daley
 CDRPC
 518-453-0850
 mdaley@cdrpc.org

Consent Order Milestones	Date Milestone Met
Task Start Date: 8/1/14	7/31/2014
Task Completion Date: 3/1/19	

SPEDES Permit #s	NY 002 5747, 003 1046, 003 0899, 003 3031
LTCP Projected Project Cost (Millions)	\$0.05 (aggregate)
Total Construction Cost (minus in-kind)	N/A
Owned By	N/A
CSO Outfall No.	N/A
Grant Funding or other sources	None

Project Status:

3/27/14: As GI projects are developed, so too will this program to document.

8/14/14: Task has begun, communities are working with the Albany Pool Joint Venture Team on program.

11/13/14: The standard tool and methodology for collecting and evaluating the data that will need to be created, as well as the format for disseminating this info - potentially in the semi-annual report structure.

1/08/15: A reporting tool has been created and will be reviewed by the APCs before being submitted to DEC.

2/12/15: Communities are reviewing the draft form.

4/9/15: DEC has requested the Pool communities for annual runoff and capture data to be included the second term annual report. The technical team is evaluating methods for collecting and reporting this data and will respond.

10/08/15: The APCs will submit runoff reduction and capture data for LTCP Projects to DEC. A draft reporting tool to collect information on private sector GI applications in each of the Albany Pool Communities (APCs) will be submitted to DEC for comments following APC review.

2/12/16: A final draft of the form was submitted to the Department on 2/12. The form was developed by the Pool Communities and technical team as tool to collect data on public applications of GI projects that may fly below the proverbial radar. The Pool aimed to make the form simple enough for an applicant and board members to understand and complete, yet have enough substance to educate. The use of the form by planning and zoning board staff allows the reporting to work through the established development review procedure. Because the documentation form is being implemented on a community-level, and not limited to within the CSO area, we don't ask for the sewer or water shed. The address could be used post survey to identify these attributes. The GI form requests an applicant with a GI practice to provide run-off reduction and water quality benefit data and to quantify if possible. The APCs are also attempting to capture data on whether the practice has a special maintenance plan and if there is a cost associated. Getting the contact info for the designer, installer, and caretaker for the practice also useful in case we'd like more information, the practice fails, or if we get inquiries on costs and service providers. This data will be loaded into a database that CDRPC will retain. The form was "tested" on the Capital Roots staff for their GI project at the Urban Grow Center in Troy. Their feedback was helpful and the Pool made some slight revisions to the form after this dry run.

4/14/16: The Draft GI documentation reporting form was submitted to the department on 2/12 and included in the second term Semi-Annual Report. The Pool is eager for comments on the draft form prior to distributing it to the Pool Communities for adoption into the development review process.

7/14/16: The GI Documentation and Reporting Form has been distributed to each of the Pool Communities for inclusion in the development review process, dependent on planning board site plan or subdivision approval.

10/16/16: CDRPC has implemented a tracking form and database for the communities to utilize in reporting this data. Data will be aggregated and reported in the Semi-Annual Reports annually submitted in March of each year which summarize the full calendar year of GI projects.

3/1/17: Two tracking sheets were returned from the City of Cohoes. These were added to a spreadsheet that has been employed to track implementation of non-LTCP public and private GI projects taking place in Pool Municipalities.

4/12/17: Documentation and reporting forms obtained from the communities were included in the semi-annual report covering 2016 that was submitted to DEC. CDRPC will continue to work with the communities to document, collect, and report data on GI projects occurring within the Pool but outside of the Consent Order program.

7/13/17: Documentation and reporting forms are included in the second-term semi-annual report covering year end. These reports have helped guide development of the Green Infrastructure Toolbox. CDRPC will continue to work with the communities to document, collect, and report data on GI projects occurring within the Pool but outside of the Consent Order program.

9/15/17: The Documentation Forms and Database were shared with the NYSDEC Hudson River Estuary Program, as they also collect this information, in an effort to see if there are additional/modified questions, format modifications that would be of use.

GI-08

Completion of a Feasibility Assessment for a “Green Infrastructure Banking System”

Project Description:

This task will identify and evaluate various models associated with the potential implementation of a green infrastructure banking system, including Stormwater In-Lieu Fees and Stormwater Retention Credit Banking.

Consent Order Milestones	Date Milestone Met
Task Start Date: 8/1/15	6/16/2014
Task Completion Date: 8/1/17	4/6/2017

Purpose:

This task will evaluate the feasibility and potential benefits associated with "green banking."

SPEDES Permit #s	NY 002 5747, 003 1046, 002 6026, 009 9309, 003 0899, 003 3031
LTCP Projected Project Cost (Millions)	\$0.075
Total Construction Cost (minus in-kind)	\$.050
Owned By	N/A
CSO Outfall No.	N/A
Grant Funding or other sources	NYS DEC Estuary Grant \$50,000

Contact Information:

Martin Daley
 CDRPC
 518-453-0850
 mdaley@cdrpc.org

Project Status:

1/08/15: Application for grant funding from the Consolidated Funding Application was not awarded. The program is envisioned as an in-lieu-fee (ILF) approach for stormwater management which can occur in circumstances where a permittee provides funds to an ILF sponsor instead of completing specific stormwater mitigation onsite. In general, a public entity, or entity designated by the public office would act as an aggregator to develop stormwater retention projects on public or private lands and receive payment from entities who cannot meet stormwater retention regulations with onsite mitigation. This model may also be able to support stormwater credits being offered to developers as a means to incentivize investment of private funds within designated priority areas/zones for redevelopment. The project is envisioned to evaluate Stormwater Retention Credit Banking: Market based solution similar to wetland mitigation banking systems. Under this model, private property owners install stormwater best management practices on private lands and sell excess retention credits to

permitted entities. The feasibility assessment will include the following tasks, Projected Development Demand, In-house Human Capital Assessment, Topographical Assessment, Stormwater Retention Strategies and Site Evaluations, and Financial Assessment of ILF Costs and Fee Calculations, or Off-Site Credits

2/12/15: Researching plans in other communities collecting data on scope of plan, cost, authors, boundaries, etc. Will use this research to develop RFP and work plan for consultant.

4/9/15: CDRPC staff researching programs in Baltimore, Philadelphia, and Washington DC

5/14/16: Reviewing CFA & Estuary programs to prepare a grant application.

6/11/15: CDRPC is assisting the city of Albany to prepare and submit an application to the Hudson River Estuary Program. **10/8:** CDRPC has drafted an RFP for the selection of a vendor to administer the program. Because the Albany Water Board was the applicant for Estuary funding to assist with financing the program, we are working to determine if CDRPC can issue and administer the RFP and contract on behalf of the Water Board and APCs.

1/14/16: CDRPC issued an RFP on behalf of the Albany Water Board. RFP responses were received and evaluated and the AWB made final determination of award, selecting Arcadis, CHA, Boomi Environmental, Town Ryan and Partners, and Storm Stream Solutions. A project kick-off meeting will take place soon. -Continued on next page- **4/14/16:** The consultant team has begun researching ILF and credit programs in Georgia, Aspen CO, Washington DC, Park Ridge IN, and San Antonio TX. A presentation was prepared to kick off the program (<http://cdrpc.org/wp-content/uploads/2016/04/03312016-Emerging-Tools-for-Effective-Stormwater-Management.pdf>).

7/14/16: The consultant team has completed a draft of the regulatory and legal review of In-Lieu Fee (ILF) and credit banking programs. A draft legal memorandum was provided by Arcadis and Town, Ryan & Partners, and is currently being reviewed by the Albany Pool Communities. A meeting with the consultants and the Albany Pool Communities to discuss the memorandum will be planned for August 2016. The team also completed a survey of other established ILF and credit banking programs that have been implemented around the country. They have identified other similar programs, including programs implemented by Washington D.C., City of Chattanooga, TN, City of Park Ridge, IL, Town of Aspen, CO, and the City of San Antonio, TX. A section of the draft of the Stormwater In-Lieu Fees and Credit Banking Feasibility Report describing the survey of ILF and Credit Banking programs was provided by Arcadis and is currently being reviewed by the Albany Pool Communities. Work continues on the assessment of the organizational capacity to implement the program and the completion of the feasibility report.

10/16/16: A workshop has been scheduled to discuss the findings of the legal review, comparative program analysis, and "lessons learned" from Chattanooga, Tennessee, a city that

has implemented a GI ILF and trading program. This workshop will help determine will help determine feasibility and appetite for local or regional programs.

3/1/17: The project team has completed the Draft Feasibility report and it has been distributed to the communities for review. Once the document is completed, the team aims to submit the report to DEC in late March and present the results of the report to the Department at the April, 2017 quarterly meeting.

4/12/17: The final draft of the report was delivered to DEC on April 6. The Pool will present a summary of the report to DEC at the Quarterly meeting on April 13.

7/13/17: This project has been completed and NYSDEC sent the Pool an approval letter on June 22.

GI-09 Green Infrastructure Technical Design Guidance

Project Description:

This task will identify and evaluate various models associated with the potential implementation of a green infrastructure banking system, including Stormwater In-Lieu Fees and Stormwater Retention Credit Banking.

Consent Order Milestones	Date Milestone Met
Task Start Date: 8/1/15	6/16/2014
Task Completion Date: 8/1/17	

Purpose:

This task will evaluate the feasibility and potential benefits associated with "green banking."

SPEDES Permit #s	NY 002 5747, 003 1046, 003 0899, 003 3031
LTCP Projected Project Cost (Millions)	\$0.150 (aggregate)
Owned By	N/A
CSO Outfall No.	N/A
Grant Funding or other sources	NYS DOS Local Government Efficiency Grant (will fund 90% of project costs)

Contact Information:

Martin Daley
CDRPC
518-453-0850
mdaley@cdrpc.org

Project Status:

1/08/15: Applied for funding through the Consolidated Funding program but was not awarded. Will need to develop scope of program and if needed, RFP for consultant assistance.

5/14/15: Reviewing CFA & Estuary programs to prepare a grant application. DEC and Pool considering joint development of design guidance.

6/11/15: Considering reapplying to DOS for this project.

10/08/15: An RFP was posted on the contract reporter and sent to several local firms. The APCs are evaluating responses to the RFP and anticipate selecting a vendor on October 8.

1/14/16: After review and selection of the vendor, the APCs have engaged Barton and Loguidice, O'Brien and Gere, Harris Beach, and RCBD to undertake the survey and GI technical design program. In December of 2015, the APCs were awarded a CFA grant from NYSDOS that will defray most of the cost for administering the code audit and the technical design program.

The consultant team will be focusing on the audit to get started and will be taking on the technical design component next.

4/14/16: There is no update at this time.

7/14/16: A kick-off meeting with NYSDEC was held on June 6th, to update the Department on this task and introduce consultant members to program staff. A general outline of a program - GI for small sites and redevelopment as a supplement to the DEC design manual was discussed. It's anticipated the project will ramp up immediately following completion of GI-07, the Code Audit project.

10/16/16: The draft scope and deliverables for this task was submitted to DEC for input.

3/1/16: The Department informed the APCs that they had no formal comments on the scope and deliverables and the project team is working on the design report.

4/12/16: The consultant team is reviewing a draft report that will be presented to the communities.

7/13/17: The consultant team presented the draft report to the Pool Communities for review and comment. A final report will be submitted to NYSDEC for review on or before August 1.

9/15/17: The final report, the "GI Toolbox," was submitted to NYSDEC on 8/1.

PIW-01
PIW-01 Primary Sludge Degritting
Rensselaer County Sewer District (RCSD)

Project Description:

Upgrade primary sludge degripping capacity to accommodate increased flow to the plant during peak wet-weather conditions.

Purpose:

Maximize flow to the plant for treatment, reduce CSO frequency and volume.

Consent Order Milestones	Date Milestone Met
Completed Plans & Specifications: 10/1/16	9/30/16
NTP to Construction: 4/1/17	3/31/17
Construction Completion Date: 12/15/18	
Operational Start-Up Date: 12/15/18	

SPEDES Permit #	NY 008 7971
LTCP Projected Project Cost (Millions)	\$3.12
Total Construction Cost (minus in-kind)	
Owned By	RCSD
Affected Water Bodies	Hudson River
Grant Funding or other sources	None
Annual Volume Captured (Mgal)	
Annual Percent CSO Reduction (%) (Pool-Wide)	

Contact Information:

Gerry Mosckinski
 RCSD
 (518) 283-2235 / GMoscinski@rensco.com

Project Status:

4/14/16: The district has published an RFP for engineering services. A walk-thru is scheduled for 4/27 and proposals are due May 12.

7/14/16: The District held the grit improvements project kick-off meeting last Friday, July 8 with Chazen Engineering. At the meeting the District and consultant reviewed the scope and schedule and walked through the site to review the various components of the project.

10/16/16: Plans and specs submitted to DEC on 9/30/2016.

3/1/17: Plans and specs approved by DEC on 1/27/2017. Bids have come back and the County is working to assemble bond and insurance needed in order to issue NTP to the selected contractor. The Bond Resolution is on the County Legislature docket for March.

3/14/17: Bond Resolution, SEQRA Resolution and capital Project Resolution passed by County Legislature. Contracts award letters sent to General and Electrical Contractors.

3/31/17: Notice To Proceed letters sent to contractors.

4/11/17: Construction Phase Services Contract passed by County Legislature, Project kick off meeting scheduled for May 01, 2017.

05/01/17: Construction kick-off meeting held with engineer, owner and general contractor.

07/07/17: General contractor mobilized to site with materials and equipment.

9/15/17: The project is advancing on schedule. All the new in-ground grit piping is installed. Installation of new piping in the solids building in underway. The primary chain and flights should arrive by the end of September.

APW-05

Asset Management Plans

Albany Water Board, Cohoes, Watervliet, Green Island

Project Description:

Provides each community with assistance in developing asset management plans to improve long term management of capital investments for operation and maintenance of their collection systems. Scope to be further developed within the established budget based upon the goals and needs of each community.

Purpose:

Allows for prioritization of rehabilitative measures based upon condition and criticality of infrastructure. Helps to reduce the risk of failure of critical infrastructure and improves reliability of the collection system to convey wastewater to the WWTP for treatment during dry and wet weather conditions.

Contact Information:

Martin Daley
 CDRPC
 518-453-0850
 mdaley@cdrpc.org

Consent Order Milestones	Date Milestone Met
Task Start Date: 4/1/16	4/1/16
Task Completion Date: 12/15/17	

SPEDES Permit #s	NY 002 5747, 003 1046, 003 0899, 003 3031
LTCP Projected Project Cost (Millions)	\$0.35 (aggregate)
Total Cost (minus in-kind)	
Owned By	N/A
CSO Outfall No.	N/A
Grant Funding or other sources	WQIP for a portion of the mapping portion accomplished by the Stormwater Coalition of Albany County

Project Status:

1/08/15: Awaiting asset management plan guidance from DEC, which will be helpful for this task. 2/12: Troy and Rensselaer will be meeting with DEC at the end of the month to discuss these plans. We anticipate these final plans to drive development and content of AMPs for west side communities.

4/9/15: Under discussion for several months, plans on the east side continue to be modified and negotiated with DEC. West side communities awaiting approved plans from east side communities prior to developing their own.

4/14/15: Troy, RSCD, and Rensselaer have submitted revised plans to DEC for consideration.

6/11/15: The Pool is interested in the newly announced DEC Asset Management Plan Pilot Program and eagerly await the formal announcement.

1/14/16: The complimentary Sewer System Operations, Maintenance, and Inspection Plans have been submitted to DEC - plans that will help shape the Asset management program. The "west side" pool communities have elected not to apply to the DEC pilot program.

4/14/16: The City of Albany is taking a lead role in preparing their Asset management plan, which other communities may model upon for format and consistency. Albany has begun inventory and assessment of programs that may manage the AMP, maps, and reports.

7/14/16: A Gap Analysis was completed with AWB management and senior staff from the operations, engineering, finance and administration functions who will comprise the Asset Management Steering Team. This workshop identified strengths, weaknesses and gaps in asset management practices, identify potential quick wins, and identify asset management elements for implementation. The gap analysis followed the WERF SAM GAP framework. The AMP will be aligned with recognized guidance documents including the NYS DEC Asset Management Guide, US EPA AM Best Practices Guide, and New Zealand AM Support Group International Infrastructure Maintenance Manual. The major components of the AMP will include formal roles and responsibilities, goals and objectives, levels of service, asset inventory, valuation, risk exposure, condition assessment, maintenance strategies, repair and replacement strategies, and budgeting. In addition the City has been implementing programs to support elements of the Asset Management program These include updating the existing Geographic Information System and converting existing files into the Local Government Information Model (LGIM), and performing sewer condition assessment of critical assets including very large diameter combined sewers that have a high consequence if they fail.

3/1/17: Watervliet, Green Island, and Cohoes are working through an Albany County Stormwater Coalition grant and are engaged in mapping and inventorying their MS4 and CSO systems. The map work will be major driver that feeds their Asset Management Plans. Cohoes has shared all our data with the coalition and a status meeting is to be held the end of April. Green Island is about 95% done with mapping of both CSO and MS4 system. The only areas that remain are two streets, Albany and Saratoga Avenues that were separated within the last few years; other areas have been mapped.

9/15/17:

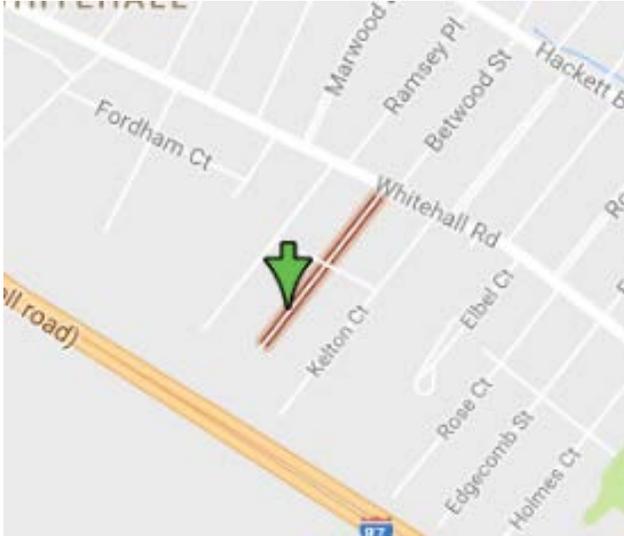
Watervliet: The City has completed mapping and measuring the depths of the pipes. The map and depth data will be included in the Plan.

Cohoes: The City has received a proposal from Arcadis and CHA to author the plan.

Green Island: The village has received a proposal from Arcadis and CHA to author the plan.

Albany: Arcadis is making final revisions to the City of Albany Plan.

SSS-06 Mariette Place Stormwater Storage Facility City of Albany



Project Description:

Connection of catch basins in the Mariette Place vicinity to a storage facility to reduce peak flows conveyed to the CSS.

Purpose:

Reduces local flooding and reduces both the incidence and frequency of combined sewer discharge to the surface, as well as reducing

Contact Information:

Albany Water Board
William Simcoe
(518) 434-5300 / wsimcoe@albanyny.gov

Consent Order Milestones	Date Milestone Met
Completed Plans & Specifications: 10/1/16	9/28/16
NTP to Construction: 4/1/17	3/31/16
Construction Completion Date: 12/15/18	6/1/17
Operational Start-Up Date: 12/15/18	6/1/17

SPEDES Permit #s	NY-0025747
LTCP Projected Project Cost (Millions)	\$0.250
Owned By	N/A
CSO Outfall No.	A-13
Grant Funding or other sources	None
Annual Volume Captured (Mgal)	
Annual Percent CSO Reduction (%) (Pool-Wide)	

Project Status:

7/14/16: The Water Board has retained Barton & Loguidice for design of this project.

10/16: Plans and specs for this project were submitted to DEC for review in September.

3/1/17: DEC issued approval of plans and specs on December 27, 2016. The project went out to bid on February 7. March 7 is the anticipated selection date for contactors. Although categorized in the LTCP as a Sewer Separation project, the Mariette Place project will incorporate Green Infrastructure elements and discharge stormwater in to a vegetated swale.

9/15/17: The project was finally completed on 7/27/17. Certification of project completion was submitted on 8/13/17.

SSS-09 Mereline Combined Sewage Storage City of Albany



Consent Order Milestones	Date Milestone Met
Completed Plans & Specifications: 10/1/18	
NTP to Construction: 4/1/19	
Construction Completion Date: 12/15/20	
Operational Start-Up Date: 12/15/20	

Project Description:

Connection of catch basins in the Mariette Place vicinity to a storage facility to reduce peak flows conveyed to the CSS.

Purpose:

Reduces local flooding and reduces both the incidence and frequency of combined sewer discharge to the surface, as well as reducing the frequency and intensity of CSO events.

SPEDES Permit #	NY-0025747
LTCP Projected Project Cost (Millions)	\$0.640
Total Construction Cost (minus in-kind)	
Owned By	City of Albany
CSO Outfall No.	A-13
Grant Funding or other sources	None
Annual Volume Captured (Mgal)	
Annual Percent CSO Reduction (%) (Pool-Wide)	

Contact Information:

Albany Water Board
William Simcoe
(518) 434-5300 / wsimcoe@albanyny.gov

Project Status:

7/14/16: The Albany Water Board is reviewing the scope of the project with Barton & Loguidice engineering.

3/1/17: This project is advancing ahead of schedule. The City is looking to incorporate Green Infrastructure elements in to this project.

9/15/15: At this time engineering proposals have been provided by Barton and Loguidice.

STCF-01 Floatables Control Facility for CSO 026 Outfall (Regulators Maiden, Steuben and Orange) City of Albany

Project Description:

The proposed floatables facility will collect floatable debris and materials associated with CSOs from the Maiden, Steuben and Orange regulator structures.

Purpose:

The project will provide for the collection of floatables from the combined sewer overflows (CSOs) in the vicinity of the Corning Preserve.

Contact Information:

Albany Water Board
William Simcoe
(518) 434-5300 / wsimcoe@albanyny.gov

Consent Order Milestones	Date Milestone Met
Completed Plans and Specs: 10/1/17	
NTP to Construction: 4/1/18	
Construction Completion Date: 12/15/19	
Operational Start-Up Date: 12/15/19	

SPEDES Permit #	NY0025747
LTCP Projected Project Cost (Millions)	\$4.00
Total Construction Cost (minus in-kind)	
Owned By	Albany Water Board
CSO Outfall No.	A-026
Grant Funding or other sources	
Annual Volume Captured (Mgal)	
Annual Percent CSO Reduction (%) (Pool-Wide)	

Project Status:

6/1/17: The preliminary design for this project has been completed along with soil surveys and borings. The Albany Water Board will submit this project to the State Intended Use Plan and apply for WQIP funding.

9/15/17: An application for WQIP funding has been submitted to NYSDEC through the CFA.

Floatables Control Facility for CSO 030 Outfall Regulators: Quackenbush, Jackson and Livingston City of Albany

Project Description:

The proposed floatables facility will collect floatable debris and materials associated with CSOs from the Quackenbush, Jackson and Livingston regulator structures.

Purpose:

The project will provide for the collection of floatables from the combined sewer overflows (CSOs) in the vicinity of the Corning Preserve.

Contact Information:

Albany Water Board
William Simcoe
(518) 434-5300 / wsimcoe@albanyny.gov

Consent Order Milestones	Date Milestone Met
Completed Final Plans & Specifications: 10/10/17	
NTP to Construction: 4/1/18	
Construction Completion Date: 12/15/19	
Operational Start-Up Date: 12/15/19	

SPEDES Permit #	NY-0025747
LTCP Projected Project Cost (Millions)	\$4.00
Total Construction Cost (minus in-kind)	
Owned By	Albany Water Board
CSO Outfall No.	A-030
Grant Funding or other sources	
Annual Volume Captured (Mgal)	
Annual Percent CSO Reduction (%) (Pool-Wide)	

Project Status:

6/1/17: The preliminary design for this project has been completed along with soil surveys and borings. The Albany Water Board will submit this project to the State Intended Use Plan and apply for WQIP funding.

9/15/17: An application for WQIP funding has been submitted to NYSDEC through the CFA.

STCF-03 "Big C" Disinfection and Floatables Control Facility City of Albany



Project Description:

The proposed satellite treatment facility provides CSO controls for flows up to 75 mgd to reduce floatable and fecal coliform discharges to the Hudson River. The "Big C" Disinfection Project would provide treatment consisting of screening and disinfection for an additional ~285MGal on an average annual basis.

Purpose:

The project provides a cost-effective, regional solution to enhance the "recovery time" for the Hudson River during periods of combined sewer overflows; and contributes to the treatment of greater than 85% of all wet weather flows from a regional perspective.

Contact Information:

Albany Water Board
William Simcoe
(518) 434-5300 / wsimcoe@albanyny.gov

Consent Order Milestones	Date Milestone Met
Begin Preliminary Design Report: 8/1/15	7/8/2015
Completed Preliminary Design Report: 8/1/16	8/1/2016
Begin SEQR & Eminent Domain Process: 2/1/17	1/12/15 and 1/20/2017
Completed SEQR & Eminent Domain Process: 2/1/21	
Begin Final Design: 12/15/18	
Completed Final Plans & Specifications: 10/1/20	
NTP to Construction: 4/1/21	
Construction Completion Date: 12/15/22	

SPEDES Permit #	NY-0025747
LTCP Projected Project Cost (Millions)	\$45.0
Total Construction Cost (minus in-kind)	
Owned By	Albany Water Board
CSO Outfall No.	A-16
Grant Funding or other sources	None
Annual Volume Captured (Mgal)	
Annual Percent CSO Reduction (%) (Pool-Wide)	

Project Status:

5/14/15: Preliminarily examining of the last leg of the Beaver Creek for options to consider siting of the facility.

10/08/15: The water board is reviewing a scope and fee proposal from the JVT for the preliminary design report.

1/14/16: The Albany Water Board has retained the APJVT to begin the preliminary design of the facility.

4/14/16: Work is underway to evaluate potential locations, disinfection, and screening technologies. Characterizing wet weather flow in and to the Beaver Creek will begin shortly.

7/14/16: The Albany Water Board has made significant headway and met with DEC to review progress.

10/16/16: A preliminary design report for this facility was submitted to DEC on 8/1/16.

3/1/17: The Albany Water Board is presently working with the City of Albany leadership. Their consultants continue to advance the public education and outreach program for the project. There was a meeting at the offices of the City of Albany Department of Water & Water Supply on January 20th, 2017, in regard to this project. Attending were Mayor Kathy Sheehan, the Mayor's Chief of Staff Brian Shea, Council Member Richard Conti, Council Member Cathy Fahey, Commissioner Joe Coffey, Deputy Commissioner Bill Simcoe and Mike Miller of CHA. The next step in the outreach process is to identify additional stakeholders and community leaders and reach out to these individuals and organizations. A certificate and memo for the milestone "Begin SEQR and Eminent Domain Process" has been submitted to the Department.

6/1/17: Preliminary layout for piping and structure is complete. The AWB has submitted this project to the State Intended Use Plan and is pursuing WIIA and IMG funding.

9/1/17: WIIA and IMG funding applications have been submitted for this project.

BMP-10

Outside Community Metering

Troy, NY

Project Description:

Monitoring of flows from outside communities to track I/I impacts on interceptor capacities; include up to 8 connections to Troy system. SCADA connections included to Troy and RCSD for automated reporting of metered flows.

Purpose:

Provides supporting data to encourage outside communities to address I/I issues; while tracking available capacity for future development as well as potential billing purposes.

Contact Information:

Chris Wheland
 City of Troy Public Utilities
 (518) 237-0438 / Chris.Wheland@troyny.gov

Consent Order Milestones	Date Milestone Met
Completed Plans & Specifications: 10/1/17	
Construction Start Date: 4/1/18	
Construction Completion Date: 12/15/18	
Operational Start-Up Date: 12/15/18	

SPEDES Permit #	NY-009 9309
LTCP Projected Project Cost (Millions)	\$2.07
Total Construction Cost (minus in-kind)	
Owned By	City of Troy
Affected Waterbodies	Hudson River
Grant Funding or other sources	
Annual Volume Captured (Mgal)	
Annual Percent CSO Reduction (%) (Pool-Wide)	

Project Status:

9/15/17: Plan and spec submission is on schedule.

SSS-07
Hoosick Street Storm Sewer Extension
City of Troy

Project Description:

Separation of existing storm sewer from the combined sewer.

Purpose:

Removal of inflow from CSS to increase conveyance of wet-weather flows, and reduce the frequency and volume of CSOs.

Contact Information:

Chris Wheland
 City of Troy Public Utilities
 (518) 237-0438 / Chris.Wheland@troyny.gov

Consent Order Milestones	Date Milestone Met
Completed Plans & Specifications: 10/1/17	
NTP to Construction: 4/1/18	
Construction Completion Date: 12/15/18	
Operational Start-Up Date: 12/15/18	

SPEDES Permit #	NY-009 9309
LTCP Projected Project Cost (Millions)	\$1.05
Total Construction Cost (minus in-kind)	
Owned By	City of Troy
Affected Waterbodies	Hudson River
Grant Funding or other sources	None
Annual Volume Captured (Mgal)	
Annual Percent CSO Reduction (%) (Pool-Wide)	

Project Status:

7/14/16: Because NYSDOT was repaving this road, the City accelerated work to replace pipe (NYSDOT would otherwise have a moratorium preventing the new pavement to be ripped up). New pipe has installed under Hoosick and the city is reviewing plans to access the need for additional work.

3/1/17: The city of Troy is working with CDM Smith on completing the design of the separation project so new phase of construction can start. Depending on funding the next phase is anticipated to begin in the late summer or early fall 2017.

7/13/17: No update at this time.

9/15/17: The plan and spec is proceeding on schedule and will be submitted on or before 10/1.

SSS-08
123rd Street Sewer Separation
Troy, NY

Project Description:

Divert unnamed stream from combined sewer.

Purpose:

Removal of inflow from CSS to increase conveyance of wet-weather flows, and reduce the frequency and volume of CSOs.

Contact Information:

Chris Wheland
 City of Troy Public Utilities
 (518) 237-0438 / Chris.Wheland@troyny.gov

Consent Order Milestones	Date Milestone Met
Completed Plans & Specifications: 10/1/18	
NTP to Construction: 4/1/19	
Construction Completion Date: 12/15/20	
Operational Start-Up Date: 12/15/20	

SPEDES Permit #	NY-009 9309
LTCP Projected Project Cost (Millions)	\$4.54
Total Construction Cost (minus in-kind)	
Owned By	City of Troy
Affected Waterbodies	Hudson River
Grant Funding or other sources	
Annual Volume Captured (Mgal)	
Annual Percent CSO Reduction (%) (Pool-Wide)	

Project Status:

9/15/17: No update at this time.

TE-04
**Investigate Non-CSO Bacteria Sources along Mill Creek,
 Poesten Kill, & Wynants Kill**
Troy, NY

Project Description:

Inspect condition of sewers running parallel and crossing the Poesten Kill, Wynantskill, Mill and Mill Creek to identify repairs that could reduce infiltration and exfiltration.

Consent Order Milestones	Date Milestone Met
Task Start Date: 4/1/16	11/16/2015
Task Completion Date: 12/15/17	

Purpose:

Potential repairs will reduce infiltration to the CSS, thereby reducing the frequency and volume of CSOs during wet-weather conditions. The project will also reduce exfiltration and associated risks of bacterial contamination during dry-weather conditions.

SPEDES Permit #	NY-009 9309
LTCP Projected Project Cost (Millions)	\$.15
Total Construction Cost (minus in-kind)	
Owned By	N/A
Affected Waterbodies	Mill Creek, Poesten Kill, Wynants Kill, & Hudson River
Grant Funding or other sources	None
Annual Volume Captured (Mgal)	N/A
Annual Percent CSO Reduction (%) (Pool-Wide)	N/A

Contact Information:

Chris Wheland
 City of Troy Public Utilities
 (518) 237-0438 / Chris.Wheland@troyny.gov

Project Status:

4/1/16: In November, 2015, the Rensselaer Land Trust applied for grant funding for a water quality sampling program. The proposed sampling program will help the communities identify sources of bacteria in these Hudson River tributaries. The application was supported by the Pool. The communities are optimistic that, if funded, this sampling program will provide data to help the communities identify sources and causes of bacteria in the tributaries, provide new sources for lab support, and raise awareness of potential programs to improve water quality in these tributaries.

7/14/16: The Rensselaer Land Trust application to the EPA Small Waters program was not funded, but the RLT is applying to this year's Estuary program. In the meantime, the City is to

start some in house sampling in August for bacteria and Coliform to get a baseline where the streams enter the city and just before they terminate at the Hudson.

3/1/17: The Rensselaer Land Trust held a kick-off meeting on Monday, January 23rd. In attendance were representatives of the City of Troy, City of Rensselaer, USGS, DEC, Riverkeeper, the Watered Alliance, and CDRPC. The sampling program project will recruit and train citizen scientists to collect water samples from 18 sites along 5 tributaries of the Hudson River for enterococcus levels. The 18 sample sites were selected for one of more of the following reasons: within EJ area, within MS4 area, previously sampled as part of Albany Pool, or previously sampled as part of Priority Waterbody List. Data will be analyzed by qualified labs and an assessment will be communicated to the general public, municipal decision makers and other stakeholders. Report cards will be prepared for each site. Other outputs include creation of a baseline of water quality and fact sheets. Expected outcomes will be an increased level of awareness and knowledge of community residents and others about water quality conditions that can lead to a reduction of pollutants and improvement in water quality by introducing measures to reduce contamination sources. The sampling data will help inform the city of Troy as to sources and locations of bacterial contamination.

7/13/17: The Rensselaer Land Trust has completed several rounds of bacteria and emerging compound sampling program. A preliminary report was distributed to project stakeholders and the city of Troy. This data will help support findings from sewer inspections, help determine potential sources of bacterial contamination. The City of Troy purchased a camera truck which will be utilized to inspect the conditions of sewers running parallel and crossing the Poesten Kill, Wynantskill, Mill and Mill Creek to identify repairs that could reduce infiltration and exfiltration. Staff is currently being trained on using this new equipment and inspections will be scheduled.

9/15/17: The Rensselaer Land Trust continues to sample for bacteria in these tributaries. This data is helping the City identify potential sources of bacteria. The City will be scheduling inspections with the new camera truck and it's operators.

BMP-08

Improvements at up to Eleven Regulators Cohoes

Project Description:

Optimization project that includes modification of eleven (11) existing regulator structures: Mohawk St (007), Duncan (012), Ontario (006), Main/Saratoga (015), Continental (005), Cedar (011), Hudson Ave (001), Bridge St (002), Van Schaick (003), Myrtle Ave (004), and Peach St (010).

Consent Order Milestones	Date Milestone Met
Completed Plans & Specifications: 10/1/16	9/30/2016
NTP to Construction: 4/1/17	3/27/2017
Construction Completion Date: 12/15/17	7/18/17
Operational Start-Up Date: 12/15/17	7/18/17

Purpose:

Optimization project that increases capacity of regulators to convey more combined sewage to the interceptor, thus reducing the frequency and volume of CSOs including Optimization project that increases capacity of regulators to convey more combined sewage to the interceptor, thus reducing the frequency and volume of CSOs.

SPEDES Permit #	NY-003 1046
LTCP Projected Project Cost (Millions)	\$.159
Total Construction Cost (minus in-kind)	
Owned By	City of Cohoes
CSO Outfall	C-001 to 007, 010 to 012, 015
Grant Funding or other sources	DEC WQIP (85%)
Annual Volume Captured (Mgal)	
Annual Percent CSO Reduction (%) (Pool-Wide)	

Contact Information:

City of Cohoes
 Gary Nathan, PE
 (518) 233-2131 / gnathan@ci.cohoes.ny.us

Project Status:

10/08/15: ACSD has applied for WQIP funds to complete this project, BMP-09, BMP-06, and BMP-07.

1/14/16: ACSD was awarded a WQIP grant to help defray the costs of this project. CDRPC will be working with the communities, District, and DEC to develop a work plan and to advance the project.

4/14/16: Watervliet, Cohoes, and Green Island have begun working with the APJVT to develop a more detailed scope of the projects to create budget lines, determine roles and responsibilities for individual projects, and complete requirements to execute the grant contract with the Department.

7/14/16: The District and communities have been working and meeting with representatives of the APJVT, scoping the projects and developing a list of optimization projects and budget. The communities will be advancing some of the optimizations in house, some work will require contractors. The final states of budgeting and executing the engineering agreement are underway.

10/16/16: Plans and specs submitted to DEC on 9/28/16.

3/1/16: (Revised) DEC approved the plan and specs on 10/27/16. The City and the District have completed some of the project already. Demolition and the removal of orifices at Mohawk and Duncan streets has been completed by the City and the District. It was originally anticipated that the Corporation would take on oversight of this project because of a perceived operational advantage to economy of scale and grant management. As the date for the advertisement for construction bidding approached, concerns were raised about the Corporation's potential role in letting bids, some member municipalities believing that it was not within the scope of the authority of the Corporation to do so. Upon further examination it was determined that while streamlining design and grant administration realized cost savings, there would be unanticipated additional costs such as construction insurance and counsel review that would increase the cost of a joint project. It was believed that the cost of obtaining the appropriate insurance coverage that would enable the Corporation to manage the construction contracts would add significant expense to the operations of the program and be duplicative, in large part, to insurance coverages the municipalities hold. Furthermore, it was determined that the complexities of transferring ownership of materials from the Corporation to the municipalities and future liability to the Corporation would further reduce the anticipated efficiencies and negate overall cost savings. After discussing community concerns and the hurdles to advancing a timely, joint construction under Corporation control, the Corporation Board determined it was more appropriate, in this circumstance, to advance the individual projects by the host communities – with separate bids and contracts. The City of Cohoes is advancing this project on their own, through their own municipal bidding process and will award and NTP. A pre bid

meeting was held on the 14th and bids were opened on the 24th. The low bidder was MJC Construction and it was awarded the contract.

4/12/16: A Notice to Proceed was issued with work to begin in June and will be done by August.

7/13/17: Construction mobilization is underway from MJC construction. A partial MWBE waiver was granted by the Department. The first report, and voucher, for this project is being prepared for the WQIP grant program.

9/15/17: Construction work on the weirs has was completed on July 18, 2017.

SSS-05 Middle Vliet Street Sewer Separation Cohoes

Project Description:

Sewer separation and rehabilitation work in the vicinity of Middle Vliet Street, including: Harvard Street, Berkshire Street, Beacon Avenue, and Edward Road.

Purpose:

Reduction of stormwater flows and infiltration to the CSS, thereby reserving conveyance capacity with the CSS and reducing the frequency and intensity of CSO events.

Contact Information:

City of Cohoes
Gary Nathan, PE
(518) 233-2131 / gnathan@ci.cohoes.ny.us

Consent Order Milestones	Date Milestone Met
Completed Plans & Specifications: 10/1/16	10/27/2016
NTP to Construction: 4/1/17	3/30/17
Construction Completion Date: 12/15/17	
Operational Start-Up Date: 12/15/17	

SPEDES Permit #	NY-003 1046
LTCP Projected Project Cost (Millions)	\$1.43
Total Construction Cost (minus in-kind)	
Owned By	City of Cohoes
CSO Outfall	C- 007
Grant Funding or other sources	DEC WQIP, \$900,000
Annual Volume Captured (Mgal)	
Annual Percent CSO Reduction (%) (Pool-Wide)	

Project Status:

7/12/16: The City applied for a WQIP Grant for the project which will fund approximately \$900k of the work. CHA Engineering has been retained for design and project management for the project. Ongoing work to meet EFC requirements for contracts and documentation. An inspection is scheduled for July 17th to perform reconnaissance and construction easements are also beginning to be ascertained.

10/16: Plans and specs submitted to DEC on 9/28/16.

3/1/17: DEC submitted a comment letter to the Pool on January 20, 2017. A response to comments was sent to DEC on February 15, 2017. A pre-bid meeting was held on the 2/21 and bids are due on March 3rd.

4/13/17: Construction is expected to start in June and be done by September.

7/13/17: Test pits have been dug and crews are scheduled to arrive to start construction the last week of July.

9/15/17: Construction crews started on July 31st with the Directional Bore now done and the sanitary sewer lining item also complete. The new storm line is installed from the west side of Edward Street to Beacon Avenue and has connected with the directional bore piece.

BMP-06
18th St. and Ave. A Weir Improvements
City of Watervliet

Project Description:

Optimization project that includes modification of the existing regulator structure, increasing the size of the connection pipe.

Purpose:

Eliminates operational challenges within the regulator and increases capacity of regulator to convey more combined sewage to the interceptor, thus reducing the frequency and volume of CSOs.

Contact Information:

Jeremy Smith
 Acting City Manager
 City of Watervliet
 (518)270-3800 x 115/ jsmith@watervliet.com

Consent Order Milestones	Date Milestone Met
Completed Plans & Specifications: 10/1/16	9/30/2016
NTP to Construction: 4/1/17	3/29/2017
Construction Completion Date: 12/15/17	
Operational Start-Up Date: 12/15/17	

SPEDES Permit #	NY-003-0899
LTCP Projected Project Cost (Millions)	\$.04
Total Construction Cost (minus in-kind)	
Owned By	City of Watervliet
CSO Outfall	W-005
Grant Funding or other sources	DEC WQIP (85%)
Annual Volume Captured (Mgal)	
Annual Percent CSO Reduction (%) (Pool-Wide)	

Project Status:

10/08/15: ACSD has applied for WQIP funds to complete this project, BMP-09, BMP-06, and BMP-07.

1/14/16: ACSD was awarded a WQIP grant to help defray the costs of this project. CDRPC will be working with the communities, District, and DEC to develop a work plan and to advance the project.

4/14/16: Watervliet, Cohoes, and Green Island have begun working with the APJVT to develop a more detailed scope of the projects to create budget lines, determine roles and responsibilities for individual projects, and complete requirements to execute the grant contract with the Department.

7/14/16: The District and communities have been working and meeting with representatives of the APJVT, scoping the projects and developing a list of optimization projects and budget. The communities will be advancing some of the optimizations in house, some work will require contractors. The final states of budgeting and executing the engineering agreement are underway.

10/16/16: Plans and specs submitted to DEC on 9/28/16. The first attempt with cameraing contractor to video sewer line from either direction was made on 9/29/16. Could not camera the pipe due to amount of gravel and flow. The technical team discussed the potential need to modify the project at the quarterly meeting with DEC on October 13, 2016.

3/1/16: The Department approved the Plans and Specs, collectively for BMP-05-BMP-08 on October 27, 2016. During the winter, the City of Watervliet has made several attempt to employ a sewer jet truck to investigate the downstream intercepting sewer that the regulator discharges to that appears to have debris that is restricting are wet weather flow. Cold weather and flow volume in the interceptor has prevented the City from jetting the line to send in a camera to do adequate inspection of the condition of the pipe. The debris is too large to be jetted by standard jet equipment. At this time it is not possible to determine if the debris is related to a pipe collapse or not, and this hampers efforts to develop a remedy.

The following is a timeline and results of attempts made by the City to jet and inspect the connection pipe at 18th and Ave. A.

- **9/29/16:** First attempt with a camera contractor to video sewer line from either direction. Could not camera the pipe due to amount of gravel and flow.
- **11/10/16:** Collaborated with ACSD to use their vacuum truck to clean as much gravel as possible. Made 2 passes with a large power head and vacuum truck broke down.
- **11/14/16:** ACSD came back and made several passes with the jet, cleaning out the gravel.
- **11/16/16:** Had camera contractor come back to video the line. Still could not get through due to debris and flow.
- **1/11/17:** Contractor came back with vacuum truck and specialized large gravel puller nozzle to scour the pipe clean. Low temperatures caused the jet nozzle to freeze. Contractor advised waiting until warmer weather with low flow.
- Weather from mid-Jan to mid-Feb was not conducive to reattempt jetting.

The Watervliet City Council met on February 17, 2017 to review the bid documents for Ave A and 18th St. Work. The Council took no action. Part of the concern was that a change order of unknown scope would have eventually been needed between bid and construction start and

without a clear picture of remedy there was some cause for concern about bidding out a project that would ultimately be modified. At this point the Pool became certain that the NTP date of 4/1/16 would no longer be possible. A modification request letter for the NTP date detailing this request for a modification will be submitted to the Department.

4/13/16: After successful completion of jetting and cleaning the the city-owned interceptor, and removing debris in early March, the investigation revealed that the interceptor sewer was not structurally comprised as originally suspected. Debris partially blocking the interceptor was cleaned and removed. The engineering team reviewed the scope of the project and determined that if the scope were slightly modified, to remove the existing orifice, leave the overflow weir at its current elevation (27.5 feet), and retain the 10-inch sewer, the resulting flow to the intercepting sewer would not be limited to the capacity of the orifice and could be as high as 2.5 mgd during wet weather; substantially greater than the LTCP's original proposal of modifying the weir and upsizing the 10" connector pipe. The replacement of the 10-inch sewer would have yielded only a marginal return in system optimization due to the slope and capacity of the 18-inch interceptor sewer. The City has indicated that they are willing to self-perform this work beginning April 1 – without any modification to the project's completion date modification date in the Order. A technical memo describing the progress of the project and the genesis of its alternative design was submitted to the department on March 28. The Pool received the Department's letter on April 10th and is developing a reply to the Department's requests within the project scope modification response letter.

7/13/17: The Department conditionally approved the project scope modification schedule as proposed by the technical team, provided several tasks were completed within a schedule specified in the modification request letter. Pipe inspection has been completed and video footage will be reviewed, results conveyed in a report on the conditions of the upstream system. Work on the 25th street bypass is slated to begin shortly.

9/15/17: The City plugged the 25th St. overflow and submitted photo documentation to the Department on July 27, 2017. The City also completed jetting and inspection of the sewer pipes tributary to 18th and Avenue A and found the pipes to be in good condition. This report was submitted to NYSDEC on 8/30. Retrofit of the 18th St. Regulator is slated to be undertaken by City of Troy Force Account work.

BMP-07 Improvements at Five Regulators City of Watervliet

Project Description:

Optimization project that includes modification of five (5) existing regulator structures: 25th Street, 14th Street, 7th Street, 6th Street, and 3rd Street.

Purpose:

Optimization project that increases capacity of regulators to convey more combined sewage to the interceptor, thus reducing the frequency and volume of CSOs.

Contact Information:

Jeremy Smith
Acting City Manager
City of Watervliet
(518)270-3800 x 115/ jsmith@watervliet.com

Consent Order Milestones	Date Milestone Met
Completed Plans & Specifications: 10/1/16	9/30/2016
NTP to Construction: 4/1/17	3/29/17
Construction Completion Date: 12/15/17	9/7/17
Operational Start-Up Date: 12/15/17	9/7/17

SPEDES Permit #	NY-003-0899
LTCP Projected Project Cost (Millions)	\$.05
Total Construction Cost (minus in-kind)	
Owned By	City of Watervliet and ACSD
CSO Outfall	W-001 to 004, 006
Grant Funding or other sources	DEC WQIP (85%)
Annual Volume Captured (Mgal)	
Annual Percent CSO Reduction (%) (Pool-Wide)	

Project Status:

10/08/15: ACSD has applied for WQIP funds to complete this project, BMP-09, BMP-06, and BMP-07.

1/14/16: ACSD was awarded a WQIP grant to help defray the costs of this project. CDRPC will be working with the communities, District, and DEC to develop a work plan and to advance the project.

4/14/16: Watervliet, Cohoes, and Green Island have begun working with the APJVT to develop a more detailed scope of the projects to create budget lines, determine roles and responsibilities for individual projects, and complete requirements to execute the grant contract with the Department.

7/14/16: The District and communities have been working and meeting with representatives of the APJVT, scoping the projects and developing a list of optimization projects and budget. The communities will be advancing some of the optimizations in house, some work will require contractors. The final states of budgeting and executing the engineering agreement are underway.

10/16/16: Plans and specs submitted to DEC on 9/28/16.

3/1/17: DEC approved the plan and specs on 10/27/16. The City and the District have completed some of the project already. Demolition and the removal of orifices has been accomplished through District and force account work by the City. It was originally anticipated that the Corporation would take on oversight of this project because of a perceived operational advantage to economy of scale and grant management. As the date for the advertisement for construction bidding approached, concerns were raised about the Corporation's potential role in letting bids, some member municipalities believing that it was not within the scope of the authority of the Corporation to do so. Upon further examination it was determined that while streamlining design and grant administration realized cost savings, there would be unanticipated additional costs such as construction insurance and counsel review that would increase the cost of a joint project. It was believed that the cost of obtaining the appropriate insurance coverage that would enable the Corporation to manage the construction contracts would add significant expense to the operations of the program and be duplicative, in large part, to insurance coverages the municipalities hold. Furthermore, it was determined that the complexities of transferring ownership of materials from the Corporation to the municipalities and future liability to the Corporation would further reduce the anticipated efficiencies and negate overall cost savings. After discussing community concerns and the hurdles to advancing a timely, joint construction under Corporation control, the Corporation Board determined it was more appropriate, in this circumstance, to advance the individual projects by the host communities – with separate bids and contracts. The City of Watervliet is in talks with the City of Troy to perform the construction work on the weirs for this project.

4/12/17: The city will be advancing this work on their own with construction support provided by the city of Troy through shared general services.

7/13/17: The County Sewer District has removed the orifices at 14th St, 7th St, 6th St and 3rd Streets. The City of Troy will provide construction support for raising weir elevations at 14th St, 7th St, 6th St and 3rd St. The city will self-perform blocking the bypass at 25th St.

9/15/17: The City permanently blocked the 25th St. bypass and on July 17, submitted a memo to the Department documenting the permanent plug installation. The City of Troy provided

construction support for raising weir elevations at 14th St, 7th St, 6th St and 3rd St. This work was completed September 7, 2017.

GI-05

Route 32 Green St. Project

City of Watervliet



Project Description:

Reconstruction of approximately 0.71 mile of Rt. 32. The project would remove and replace approximately 152,080 square feet of roadway with new pavement, and 30,416 square feet of new sidewalk. Porous surfaces would be evaluated for sidewalks, parking lanes and/or travel lanes. In addition, approximately 50 trees would be removed and replaced with environmentally friendly tree pits. The final project limits, and subsequent quantities, will be determined based on engineering considerations in conjunction with available funding constraints.

Purpose:

Reduction of stormwater flows or loads to the CSS, thereby reserving conveyance capacity with the CSS and reducing the frequency and intensity of CSO events.

Contact Information:

Jeremy Smith
 Acting City Manager
 City of Watervliet
 (518)270-3800 x 115/ jsmith@watervliet.com

Project Status:

Consent Order Milestones	Date Milestone Met
Completed Plans and Specs: 10/1/15	10/1/2015
NTP to Construction: 4/1/2016	3/31/2016
Construction Completion Date: 12/15/17	11/28/16
Operational Start-Up Date: 12/15/17	11/28/16

SPEDES Permit #	NY-003-0899
LTCP Projected Project Cost (Millions)	\$1.0
Total Construction Cost (minus in-kind)	
Owned By	City of Watervliet
CSO Outfall	W-001 to 004
Grant Funding or other sources	None
Annual Volume Captured (Mgal)	
Annual Percent CSO Reduction (%) (Pool-Wide)	

7/10/14: City planning and engineering staff met with APJVT, Capital District Transportation Committee, and CDRPC staff to talk about transportation funding options and timetable for GI only as opposed to complete phased reconstruction of the corridor.

9/11/14: CDRPC staff met with CDTA to discuss the pending Bus Rapid Transit implementation through the city, and to determine stop locations. CDTA shared the preliminary designs for their stops within the proposed GI implementation.

11/13/14: Second meeting held with CDTA staff on 10/20 about Bus Rapid Transit line planned for Rte. 32 to illustrate GI practices and potential costs at the proposed Watervliet station.

1/08/15: City had a kickoff meeting with Weston and Sampson Engineering on 12/19. A Task order for the project was written up, using the feasibility study done by B&L as a starting point.

4/9/15: The city has retained Weston & Sampson Engineering to develop plans and specs for the project. The engineering team is considering additional infiltration and soil testing prior to beginning design.

5/14/15: CDRPC staff has met with Weston Sampson, sharing "lessons learned" from prior GI projects. Looking at WQIP funding for construction.

10/08/15: The city and design engineer met with DEC on 9/22 to review preliminary plans and spec and have the opportunity to get advance comments by the department. Complete plans and specs were delivered to DEC electronically on 10/1.

1/14/16: Plans and specs have been approved by DEC. The City is considering expanding the scope of the GI with an application to the local and Statewide Transportation Improvement Program grant program through NYSDOT. 2/11/16: Due to limited funding and timing considerations, the city will not be proceeding with an application through NYSDOT and will be moving forward as originally planned and according to the schedule set forth on the Order.

4/14/16: The City out construction bids requests on the street and received several bids. The city selected August Bohl as the general contractor and issued NTP on 3/31/16. A public meeting will take place on April 19th to inform the nearby residents of the intent, schedule, and impact of project construction.

7/14/16: August Bohl, the construction company contracted by the city, has a final start date of August 1. National Grid has been accommodating so far to make sure that can happen, as the utility is currently replacing gas mains in the area. Anything that delays National Grid by more than two weeks will cause the construction to be delayed to 2017, though with an estimated 12/15/17 construction completion date in the Order we anticipate any delay experienced will not have an impact on the on-time delivery of the project. Watervliet is submitting a GIGP Grant application in the NYS Consolidated Funding Application.

10/16: Construction began in late July and has been proceeding well.

3/1/17: Two change orders were issued during construction. The first, described in a memo to DEC on December 22, 2016, was in order to address concerns raised about the lack of space

from street to the basin in which to exit a vehicle without stepping into the basin. The engineer looked to address the community concerns with a slight modification to the basin that still reached the performance goals of the roadside bioretention units. The modified design features 18" wide pavement adjacent to curb for space to step out of a vehicle. The revised WQv is 75 c.f., which still exceeds the 75% WQv volume requirement in the NYSDEC stormwater design manual while at the same time satisfies community concerns about the safety of the practices during vehicle egress. The second change order added a bollard to protect a bioretention area that was at risk of being backed into. Construction of the project is complete, but plantings will take place in the spring.

4/13/17: The construction of the project has been completed. The City is awaiting DEC approval or comment on the change order memo submitted to the Department in December.

7/13/17: The City has completed this project. DEC approval on change orders has been obtained. EFC approval on change orders is still pending. Once this approval is received the City of Troy will be able to draw down on their share of financing this project.

9/15/17: EFC approval on change orders has been obtained.

BMP-09

Swan St. and Hamilton St. Regulator Improvements Village of Green Island

Project Description:

Optimization project that includes modification of two (2) existing regulator structures:
Removal of the orifice at Swan Street, raise weir height at Hamilton Street.

Purpose:

Optimization project that increases capacity of regulators to convey more combined sewage to the interceptor, thus reducing the frequency and volume of CSOs including Optimization project that increases capacity of regulators to convey more combined sewage to the interceptor, thus reducing the frequency and volume of CSOs.

Contact Information:

Sean Ward
Village of Green Island
(518) 273-2201 /
seanw@villageofgreenisland.com

Project Status:

1/14/16: The Albany County Sewer District was awarded a WQIP grant to help defray the costs of this project. CDRPC will be working with the communities, District, and DEC to develop a work plan and to advance the project.

4/14/16: Watervliet, Cohoes, and Green Island have begun working with the APJVT to develop a more detailed scope of the projects to create budget lines, determine roles and responsibilities for individual projects, and complete requirements to execute the contract with the Department.

7/14/16: The District and communities have been working and meeting with representatives of the APJVT, scoping the projects and developing a list of optimization projects and budget. The

Consent Order Milestones	Date Milestone Met
Completed Plan and Specs: 10/1/16	9/28/2016
NTP to Construction: 4/1/17	3/9/17
Construction Completion Date: 12/15/17	4/21/17
Operational Start-up Date: 12/15/17	4/21/17

SPEDES Permit #	NY 003-3031
LTCP Projected Project Cost (Millions)	\$.20
Total Construction Cost (minus in-kind)	
Owned By	Village of Green Island
CSO Outfall	GI-002, 003
Grant Funding or other sources	DEC WQIP (85%)
Annual Volume Captured (Mgal)	
Annual Percent CSO Reduction (%) (Pool-Wide)	

communities will be advancing some of the optimizations in house, some work will require contractors. The final states of budgeting and executing the engineering agreement are underway.

10/16: Plans and specs submitted to DEC on 9/28/16.

3/1/17: (Revised) DEC approved the plan and specs on 10/27/16. The Village and the District have completed some of the project already. Demolition and the removal of orifices at Swan St and Hamilton Street has been completed. It was originally anticipated that the Corporation would take on oversight of this project because of a perceived operational advantage to economy of scale and grant management.-After discussing community concerns and the hurdles to advancing a timely, joint construction under Corporation control, the Corporation Board determined it was more appropriate, in this circumstance, to advance the individual projects by the host communities – with separate bids and contracts.

4/13/17: The Village of Green Island is advancing this project on their own. No change to the project timetable is anticipated.

7/13/17: ACSD removed the orifice at Swan and the slide gates at Hamilton. The Village of Green Island partnered with the City of Troy for installation of a new weir plate at Hamilton Street. The project has been completed and has been certified.

Appendix B: CSO Population Data for 2016

Population Trends - 2016

Community	July, 2015	July, 2016	Change in Population	Percent Change in Population
Albany	98,268	98,111	-197	-0.20%
Cohoes	16,504	16,883	380	2.30%
Green Island	2,605	2,598	-8	-0.30%
Watervliet	10,190	10,120	-71	-0.70%
Troy	49,873	49,702	-150	-0.30%
Rensselaer	9,364	9,340	-28	-0.30%

Pool-Wide	186,804	186,754	-74	0.03%
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Population Data Source: Annual Estimates of the Resident Population (2010 - 2015), US
Census Bureau, Population Division

Appendix C: CSO Reduction Table

Capture and Percent Reductions for all LTCP Appendix B Projects Completed During 2017, First Term By Type

Project Type	Project Name	Project Code	Project Location	Milestone(s)	Appendix B Deadline Dates	Action Performed	Annual Volume Captured (Mgal)	Annual Percent CSO Reduction (%)
Separation	Mariette Place Stormwater Storage Facility	SSS-06	Albany	Operational Start up and Construction Completion Date	12/15/2018	7/27/2017	Data not available at time of report	#VALUE!
Total by separation							0.0000	#VALUE!
Green Infrastructure	Route 32 Green St. Project	GI-05	Watervliet	Operational Start up and Construction Completion Date	12/15/2017	1/30/2017	Data not available at time of report	#VALUE!
Total by green infrastructure							0.0000	#VALUE!
Best Management Practices	Swan St. and Hamilton St. Regulator Improvements	BMP-09	Watervliet	Operational Start up and Construction Completion Date	12/15/2017	8/10/2015	Data not available at time of report	#VALUE!
Best Management Practices	Improvements at up to Eleven Regulators	BMP-08	Cohoes	Operational Start up and Construction Completion Date	12/15/2017	7/18/2017	Data not available at time of report	#VALUE!
Best Management Practices	Improvements at Five Regulators	BMP-07	Watervliet	Operational Start up and Construction Completion Date	12/15/2017	9/7/2017	Data not available at time of report	#VALUE!
Total by best management practices							0.0000	#VALUE!
Total Capture and Percent Reductions for all Categories							0.0000	#VALUE!

Capture and Percent Reduction on Cumulative Basis for all LTCP Appendix B Projects Completed During 2017, First Term, by Community

Project Type	Project Name	Project Code	Project Location	Milestone	Appendix B Deadline Dates	Action Performed	Annual Volume Captured (Mgal)	Community Level Annual Percent CSO Reduction (%)
Separation	Mariette Place Stormwater Storage Facility	SSS-06	Albany	Operational Start up and Construction Completion Date	12/15/2018	7/27/2017	Data not available at time of report	#VALUE!
Total for the City of Albany							0.0000	#VALUE!

Best Management Practices	Swan St. and Hamilton St. Regulator Improvements	BMP-09	Watervliet	Operational Start up and Construction Completion Date	12/15/2017	8/10/2015	Data not available at time of report	#VALUE!
Best Management Practices	Improvements at Five Regulators	BMP-07	Watervliet	Operational Start up and Construction Completion Date	12/15/2017	9/7/2017	Data not available at time of report	#VALUE!
Total for the City of Watervliet							0.0000	#VALUE!
Best Management Practices	Improvements at up to Eleven Regulators	BMP-08	Cohoes	Operational Start up and Construction Completion Date	12/15/2017	7/18/2017	Data not available at time of report	#VALUE!
Total for the City of Cohoes							0.0000	#VALUE!

The annual volume captured is estimated based on the individual project parameters in conjunction with baseline wet-weather capture statistics documented in the Albany Pool CSO LTCP for a typical year. Annual percent CSO reductions were based on baseline annual overflows for the Albany Pool (1,236 MG); while the host community CSO volume reductions were based on the respective annual overflows volumes at the community level, as documented in the Albany Pool CSO LTCP.

Revised 9/15/17

Annual Volume Captured Data will be submitted as soon as it becomes available.