



CAPITAL DISTRICT
**Regional
Planning
Commission**

One Park Place, Suite 102 | Albany, New York 12205
(518) 453-0850 | (518) 453-0856, fax | www.cdrpc.org

September 15, 2020

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Ryan Waldron, P.E.
Wastewater Permits Section
Division of Water
NYSDEC
625 Broadway, 4th Floor
Albany, NY
12233-3506

Re: Albany Pool Communities First Term Semi-Annual Report, 2020

Mr. Waldron,

As the designated Program Coordinator on behalf of the Albany Pool Communities CDRPC herewith submits to the Department the Albany Pool Communities 2020 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, 2020 and June 30, 2020.

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

Best,

Martin Daley
Director of Water Quality Programs/ Albany Pool Communities CSO LTCP Project Manger

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, 2020
(January 1 – June 30, 2019)

September 15, 2020

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 Water Purification 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, 2020 and June 30, 2020**.

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 2019 population projections for the CSO communities for the 2019 Second Term Semi Annual report are contained within this report as **Appendix C**.

2.0 CRITICAL EVENTS THIS TERM

None.

3.0 MAJOR ACTIONS THIS TERM

On 5/13/20 the City of Albany submitted a permit modification request to NYSDEC for their CSO SPDES ID:NY0025747. The Permit Mod was be for both the floatables facilities and disinfection with a maximum treatment of 100 MGD. After consultation with NYSDEC and NYSEFC, it was confirmed that a Permit Modification will be required before disbursing on construction costs for the Beaver Creek Clean River Facility, however, the modification is not needed prior to submission of plans and specs to the Department or issuing Notice to Proceed. Because Albany’s current schedule would require funds in January 2021, the City requested the Department complete their review expeditiously to make it possible to complete the modification January 2021.

Several major actions have taken place, although within the second Term” of the 2020 reporting period. An online meeting with DEC and EFC was held on July 16, 2020 to conduct a virtual walk through of the Beaver Creek Clean River Facility. On July 23, 2020 the Pool submitted the South Plant Screenings Regulatory Review Drawings, which was uploaded to the NYSDEC FTS site for review. An online meeting with DEC and EFC was held on August 10, 2020 to discuss the South Plant Improvements and the 3rd avenue screenings diversion project. Addendum No. 1 for the South Plant Screenings Upgrade project was submitted to NYSDEC on 9/1/20. The regulatory review package of documents for Phase V of the Beaver Creek Clean River Project was submitted to DEC on September 2, 2020 and represented the last set of drawings and specs for the October 1, 2020 plan and spec submittal milestone.

Albany has closed on their portion of the “Beaver Creek Clean River” Facility. The City of Watervliet closed on 04/09/2020. The city of Cohoes is scheduled to close on 10/01/2020. The of Troy is scheduled for approval at the EFC September Loan Committee meeting.

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 2020 – June 30, 2020)

| Unique Identifier | Item Description | Responsible Party (LTCP) | Project Location | Action Required | LTCP Milestone Date | Milestone Met | Status |
|-------------------|--|--------------------------|------------------|-----------------|---------------------|---------------|--|
| PIW-02 | Evaluation of Secondary Clarification Improvements | RCSD | RCSD | Task Start Date | 6/1/2019 | 4/4/2019 | The District received a comment letter from DEC on May 8, 2020 and responded on July 8 th . NYSDEC sent a second comment letter on August 12, 2020. |

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 (January 1, 2020 – June 30, 2020)

| Unique Identifier | Item Description | Responsible Party (LTCP) | Project Location | Action Required | LTCP Milestone Date | Status |
|-------------------|--|--------------------------|------------------|--|---------------------|---|
| STCF-03 | "Big C" Disinfection and Floatables Control Facility | APCs | Albany | Completed Final Plans and Specs | 10/1/2020 | Final packet of plan and spec submitted on 9/2/2020 |
| SSS-08 | 123rd St. Stream Separation | APCs | Troy | Construction Completion Date & Operational Start Up Date | 12/15/2020 | Project completed on 6/15/2020 |
| SSS-09 | Mereline Combined Sewage Storage | APCs | Albany | Construction Completion Date & Operational Start Up Date | 12/15/2020 | Project completed on 6/16/2020 |

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**.

7.0 COMMUNITY RELATIONS

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.

The City of Albany maintains a project website for the Beaver Creek Clean River project. The site,

www.albanyny.gov/Government/Departments/WaterAndWaterSupply/BeaverCreekCleanRiverProject.aspx, functions as a clearing house for project updates, presentations, meeting materials and more. It supplements the Albany Pool websites, www.albanypool.org and www.albanypoolcso.org.

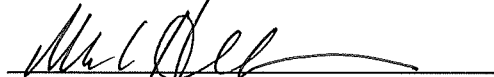
DEC Case #CO 4-20120911-01

First Term, 2020

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 AIDE

Title

9/15/20

Date

City of Cohoes

Municipality / Entity

Signature_____
Name_____
Title_____
DateCity of Troy

Municipality / Entity

Signature_____
Name_____
Title_____
DateCity of Albany

Municipality / Entity

Signature_____
Name_____
Title_____
Date

DEC Case #CO 4-20120911-01

First Term, 2020

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

Name

Title

Date

City of Cohoes
Municipality / Entity

George Nathan
Signature

George Nathan
Name

City Engineer
Title

9/15/2020
Date

City of Troy
Municipality / Entity

Signature

Name

Title

Date

City of Albany
Municipality / Entity

Signature

Name

Title

Date

DEC Case #CO 4-20120911-01

First Term, 2020

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

Name

Title

Date

City of Troy
Municipality / Entity


Signature

Chris Wheland
Name

Superintendent
Title

9/15/20
Date

City of Cohoes
Municipality / Entity

Signature

Name

Title

Date

City of Albany
Municipality / Entity

Signature

Name

Title

Date

DEC Case #CO 4-20120911-01

First Term, 2020

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

Name

Title

Date

City of Troy
Municipality / Entity

Signature

Name

Title

Date

City of Cohoes
Municipality / Entity

Signature

Name

Title

Date

City of Albany
Municipality / Entity


Signature

William D. Sinclair, P.E.
Name


Deputy Commissioner
Title

9-15-20
Date

DEC Case #CO 4-20120911-01

First Term, 2020

City of Watervliet
Municipality / Entity



Signature

MARK J. SPALIN

Name

DEPUTY GM

Title

9/19/2020

Date

Albany County Water Purification District
Municipality / Entity

Signature

Name

Title

Date

Village of Green Island
Municipality / Entity

Signature

Name

Title

Date

Rensselaer County Sewer District
Municipality / Entity

Signature

Name

Title

Date

Albany Pool Communities

Semi-annual Status Report

DEC Case #CO 4-20120911-01

First Term, 2020

City of Watervliet
Municipality / Entity

Village of Green Island
Municipality / Entity

Signature

Signature

Name

Name

Title

Title

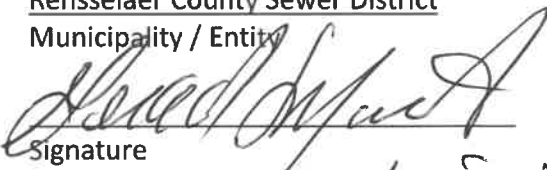
Date

Date

Albany County Water Purification District
Municipality / Entity

Rensselaer County Sewer District
Municipality / Entity

Signature


Signature

Name

GERARD S. MOSCINSKI
Name

Title

Administrative Director
Title

Date

9/15/20
Date

Appendix A: Project Sheets

STCF-03

Beaver Creek Clean River Project

(AKA "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 |
| Begin Final Design: 12/15/18 | 12/7/2018 |
| Completed Final Plans & Specifications: 10/1/20 | 9/2/20 |
| NTP to Construction: 4/1/21 | |
| Completed SEQR & Eminent Domain Process: 2/1/21 | |
| Construction Completion Date: 12/15/22 | |

| | |
|---|---|
| SPEDES Permit # | NY-0025747 |
| LTCP Projected Project Cost | \$45,000,000 |
| Total Construction Cost to date (minus grants and inkind) | \$1,172,211 |
| Owned By | Albany Water Board |
| CSO Outfall No. | A-16 |
| Grant Funding or other sources | NYSEFC IMG: \$10,000,000 and \$5,000,000 WQIP |
| Annual Volume Captured (Mgal) | TBD |
| Annual Percent CSO Reduction (%) (Pool-Wide) | TBD |

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.

1/11/18: The City was awarded funding through the NYSEFC WIIA and IMG grant programs for this project. The 30% engineering plan will be completed in the first quarter of 2018. Public presentations will occur in the first quarter of 2018.

3/1/18: No update at this time.

2/13/19: The City has set up a project website at <https://www.albanyny.gov/Government/Departments/WaterAndWaterSupply/BeaverCreekCleanRiverProject.aspx>. The website contains access to presentations, FAQs, images and a video walk through of GI proposed for the Park. A community advisory committee was established and met regularly to advise the Water Board and provide feedback. A series of public meetings were held at the Thomas O'Brien School and at Neighborhood Association Meetings. The City revised the original park plan slightly to incorporate modifications that address community

concerns about truck traffic, visual impact and storage of screenings. The City and County are working an agreement that would allow for the Beaver Creek facility to send floatables through a bypass to the 3rd avenue dedicated, separated storm line, bypassing the regulator, and going straight to the plant – where they will be screened out by new, more restrictive screens owned by the county but installed by the city. This proposal would allow for the primary above ground park building to be significantly reduced in size, the elimination of storage and trucking of screenings from the park and a significant increase in screening for all of the flow coming into the District's south plant – not just screening of "Big-C" flow. The Water Board has continued to make adaptations to the proposed park improvements and GI infrastructure in response to community input. The project is advancing well ahead of the Order's mandated deadlines.

9/1/19: The Basis of Design Report by the Albany Pool Joint Venture Team was submitted to EFC and NYSDEC for review. The Albany Water Board and the Albany County Water Purification District are entering into a Memorandum of Agreement in regard to replacement of the screens at the South Plant as part of the project. This Memorandum of Agreement was approved by the Albany Water Board and the Albany County legislature and is expected to be fully executed in September 2019. The APJVT will complete detailed design by the end of 2019. The Albany Water Board intends to advertise for bids and award a contract in 2020. The Albany Water Board has applied for a NYSDEC WQIP grant of \$10 million for this project.

1/12/19: The Basis of Design Report was approved by EFC and NYSDEC. The Albany Water Board and the Albany County Water Purification District Memorandum of Agreement in regard to replacement of the screens at the South Plant was executed in September 2019. The Albany Water Board intends to advertise for bids and award a contract in 2020. The Albany Water Board has been awarded NYSDEC WQIP grant of \$5 million for this project.

3/5/19: Detailed design by the Albany Pool Joint Venture Team is proceeding. Closing on Albany's EFC Financing is scheduled for March 12th. Albany expects to be able to work in Grants Gateway to begin to execute a \$5 million NYSDEC WQIP grant in March. Other communities are also working on their project financing. The intention is to have separate packages of plans and specifications for the work at the Albany County Water Purification Plant (screen replacement), Third Avenue connection to the interceptor sewer, and the Beaver Creek Satellite Treatment Facility.

9/1/20: The city submitted a permit modification request to NYSDEC on May 13, 2020. DEC is reviewing the request and preparing a response. An online meeting with DEC and EFC was held on 7/16/20 to conduct a virtual walk through of the Beaver Creek Clean River Facility. On 7/23/20 the Pool submitted the South Plant Screenings Regulatory Review Drawings, was uploaded to the NYSDEC FTS site for review. An online meeting with DEC and EFC was held on 8/10/20 to discuss the South Plant Improvements and 3rd avenue screenings diversion project. Addendum No. 1 for the South Plant Screenings Upgrade project was submitted to NYSDEC on 9/1/20. All five phases of the Beaver Creek Clean River Project were submitted to NYSDEC and EFC on or before 9/20/20. Bids have been received for phase I (Third Ave. Sewer Improvements and Phase II (ACWPD South Plant Screening Upgrades). The next two phases to bid are Phase III: Beaver Creek Diversion Tunnel and Phase IV: Third Avenue Tunnel. The

final phase to be bid will be Phase V: beaver Creek Satellite Treatment Facility. The planned date to bid Phase V is December 22, 2020, with receipt of bids on February 4, 2021.

SSS-09

Mereline Combined Sewage Storage

City of Albany

| Consent Order Milestones | Date Milestone Met |
|--|--------------------|
| Completed Plans & Specifications: 10/1/18 | 7/27/17 |
| NTP to Construction: 4/1/19 | 3/17/19 |
| Construction Completion Date: 12/15/20 | 6/16/20 |
| Operational Start-Up Date: 12/15/20 | 6/16/20 |

Project Description:

Connection of catch basins in the Mariette Place vicinity to a storage facility to reduce peak flows conveyed to the CSS. Green Infrastructure was incorporated into the project.

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.

Contact Information:

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

| | |
|---|------------------------|
| SPDES Permit # | NY-0025747 |
| LTCP Projected Project Cost | \$640, 000 |
| Total Construction Cost (after grant applied) | \$465,501 |
| Owned By | City of Albany |
| CSO Outfall No. | A-13 |
| Grant Funding or other sources | \$500,000 (NYSEFC ISC) |
| Annual Volume Captured (Mgal) | 1.8 |
| Annual Percent CSO Reduction (%) (Pool-Wide) | .04% |

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.

1/11/18: The Engineering contract was awarded to Barton and Loguidice on 10/11/17.

3/1/18: No update at this time.

9/10/18: The project is on schedule for on time plan and spec submittal.

2/13/19: The project has been advertised for bids and a bid date was set for March 5th.

9/1/19: The construction contract was awarded in March of 2019. Construction is underway. Completion is anticipated by the summer of 2020.

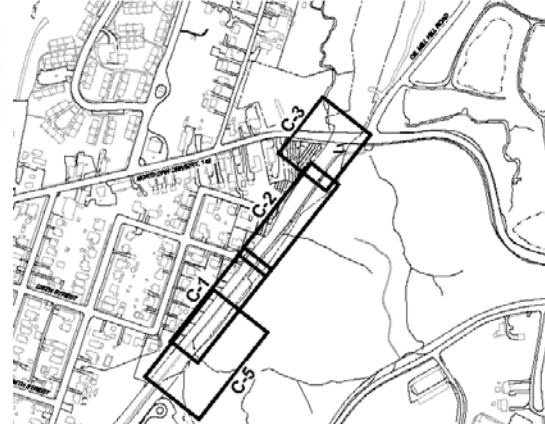
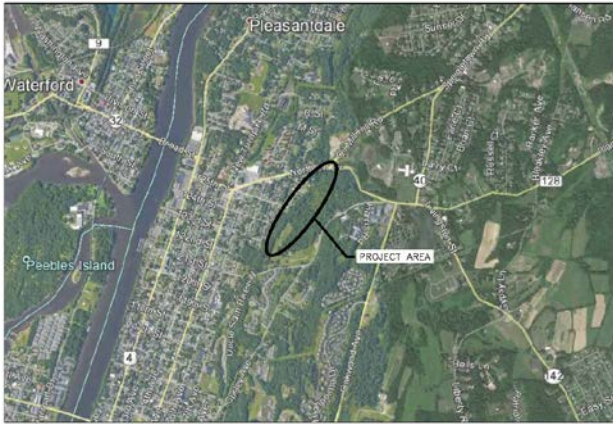
3/5/19: Most of the construction was completed prior to winter 2019/2020. The permeable pavement will be applied when the temperatures are warm enough to support proper application. The City was notified in late February of a \$500,000 grant through NYSEFC ISC program.

6/16/20: This project is complete. The Runoff reduction volume (RRv) is 1,822 CF. Approximately 3.7 acres of combined sewer area has been diverted from the combined sewer. This equates to an annual separated storm runoff of approximately 5.53AF (1,803,000 gallons).

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

Project Status:

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

1/9/18: CDM Smith is developing plans and specifications to comply with the 10/1/18 deadline.

3/1/18: The City will be holding a design meeting on March 5.

9/10/18: Project is on schedule for plans and specs submittal. Borings are complete, and design is at 75%.

| Consent Order Milestones | Date Milestone Met |
|---|--------------------|
| Completed Plans & Specifications: 10/1/18 | 10/1/18 |
| NTP to Construction: 4/1/19 | 4/1/19 |
| Construction Completion Date: 12/15/20 | 6/15/20 |
| Operational Start-Up Date: 12/15/20 | 6/15/20 |

| | |
|---|--------------|
| SPDES Permit # | NY-009 9309 |
| LTCP Projected Project Cost (Millions) | \$4.54 |
| Total Construction Cost (minus in-kind and grant) | \$718,281 |
| Owned By | City of Troy |
| Affected Waterbodies | Hudson River |
| Grant Funding or other sources | None |
| Annual Volume Captured (Mgal) | 1 MG |
| Annual Percent CSO Reduction (%) (Pool-Wide) | .02% |

2/13/19: The city submitted plans and specs to the Department on 10/1/18. The Department provided comments on the plans to the City on 11/28/18. The city and CDM Smith have reviewed the comment and there is not a concern of the 30" stormwater line going to a 24" inch line due to the current flows and the pitch of the 24 inch line. CDM had a verbal discussion with DEC. The SEQRA short form has been submitted along with the application to DEC and Army Corp of Engineers. The city is also in contact with the Albany Dioceses to obtain an easement on a portion of the St. John's Cemetery where the inlet structure will be located.

3/6/20: Contractor is on site and pipe is being installed. Estimated completion date of June 30, 2020.

7/20: This project is complete.

SSS-12

Vliet Street Sewer Rehabilitation, Replacement and Separation Cohoes



Project Description:

Continuation of the sewer separation and rehabilitation work along Vliet Street, including: Possible installation of a new 36" pipe along Diane Court, and a diversion of stormwater flows from the existing stone-arch at Richmond Street to the separated system in the vicinity of Johnston Avenue using GI practices where practical.

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
Garry Nathan, PE
(518) 233-2131 / gnathan@ci.cohoes.ny.us

Project Status:

3/15/20: Acceptance of NYSEFC Engineering Report grant and SEQR resolution (#23) passed on 03/24/2020 by the Common Council

9/1/20: CHA has obtained soil borings and is

| Consent Order Milestones | Date Milestone Met |
|---|--------------------|
| Completed Plans & Specifications: 10/1/21 | |
| NTP to Construction: 4/1/22 | |
| Construction Completion Date: 12/15/23 | |
| Operational Start-Up Date: 12/15/23 | |

| | |
|---|-----------------------------|
| SPDES Permit # | NY-003 1046 |
| LTCP Projected Project Cost: | \$1,930,000 |
| Total Cost: | \$TBD |
| Total Construction Cost (minus grant and in-kind) | \$TBD |
| Owned By | City of Cohoes |
| CSO Outfall | C- 007 |
| Grant Funding or other sources | DEC WQIP: up to \$1,938,000 |
| Annual Volume Captured (Mgal) | TBD |
| Annual Percent CSO Reduction (%) (Pool-Wide) | TBD |

Currently working on the preliminary design. They are
About 50% done on the engineering report.

SSS-10

Columbia Street Phase II Separation, City of Cohoes



Project Description:

Continuation of the sewer separation and rehabilitation work along Columbia Street.

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

Project Status:

3/15/20: The City was awarded WQIP grant for \$1,900,000 awaiting contract. City just received A/E contract for design and construction. Under review.

9/1/20: Arcadis Engineering has been retained to design the project. Plans and specs are roughly 50% complete.

| Consent Order Milestones | Date Milestone Met |
|---|--------------------|
| Completed Plans & Specifications: 10/1/21 | |
| NTP to Construction: 4/1/22 | |
| Construction Completion Date: 12/15/22 | |
| Operational Start-Up Date: 12/15/22 | |

| | |
|---|-----------------------|
| SPDES Permit # | NY-003 1046 |
| LTCP Projected Project Cost: | \$4,325,000 |
| Total Cost: | \$4,325,000 |
| Total Construction Cost (minus grant and in-kind) | \$TBD |
| Owned By | City of Cohoes |
| CSO Outfall | C-008, 015 |
| Grant Funding or other sources | NYSEFC E&PG: \$72,000 |
| Annual Volume Captured (Mgal) | TBD |
| Annual Percent CSO Reduction (%) (Pool-Wide) | TBD |

PIW-02
Evaluation of Secondary Clarification Improvements
Rensselaer County Sewer District (RCSD)

Project Description:

Re-evaluate the wet-weather capacity of the WWTP to determine if secondary clarification improvements are needed for future growth and peak wet-weather flow of 63.5 MGD. Evaluate various options including enhanced secondary clarification and/or equalization tanks at the plant and/or pump stations.

Purpose:

Reduce bacteria load to Hudson River, improve water quality during the seasonal disinfection period.

Contact Information:

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

| Consent Order Milestones | Date Milestone Met |
|------------------------------|--------------------|
| Task Start Date: 6/1/19 | 4/4/19 |
| Task Completion Date: 6/1/20 | 3/18/20 |

| | |
|--|--------------|
| SPEDES Permit # | NY 008 7971 |
| LTCP Projected Project Cost: | \$50,000 |
| Owned By | RCSD |
| Total Construction Cost (minus in-kind) | TBD |
| Affected Water Bodies | Hudson River |
| Grant Funding or other sources | None |
| Annual Volume Captured (Mgal) | N/A |
| Annual Percent CSO Reduction (%) (Pool-Wide) | N/A |

Project Status:

2/1/19: Working with CDM Smith on revising previous capacity evaluation completed in 2011.

9/1/19: Resolution G/243/19 passed by County Legislature June 11, 2019. Awaiting Execution of Contract

3/15/20: Meet with CDM Smith on February 27, 2020 to review the 90% draft report. RCSD provide comments and concerns. The final report is expected by April 1, 2020.

4/1/20: The report was completed and submitted to NYSDEC.

9/2/20 NYSDEC submitted a comment letter to the district on May 8, 2020. The District responded to the May, 8 comment letter on July 8, 2020. On August 26th DEC issued a second

comment letter requesting a schedule needs to be included in the report for the installation of the adjustable gate, proposed actuators and flow meters in the influent channels of each aeration basin designated for equalization. DEC also requested the wet weather operating plan be revised and resubmitted with the installation of new equipment as well as new operating procedures and monitoring stated in the plan.

Appendix B: CSO Reduction Table

| Capture and Percent Reduction on Cumulative Basis for all LTCP Completed Projects | | | | | |
|---|--|--------------------|-------------------------------|--|--------------------------------------|
| Project Name | Project Type | Project Completion | Annual Volume Captured (Mgal) | Community Level Annual Percent CSO Reduction (%) | Pool -wide Percent CSO Reduction (%) |
| Albany (739MG annual CSO discharge) | | | | | |
| Woodville Pump Station Upgrades | Best Management Practices | 2012 | | 0.00% | 0.00% |
| Elberon Place Stormwater Storage Phases I and II | Separation | 2012 | | 0.00% | 0.00% |
| Lawnridge/Grove/Glendale/Forest Ave. Separation Phase II | Separation | 2012 | | 0.00% | 0.00% |
| Marion Ave. Stormwater Storage Structures | Separation | 2012 | | 0.00% | 0.00% |
| Mereline Combined Sewer Storage | Separation (and Green Infrastructure) | 2020 | 1.8030 | 0.07% | 0.04% |
| Quail Street Green Infrastructure Project | Green Infrastructure | 10/28/2016 | 8.8670 | 0.36% | 0.22% |
| Upper Washington Ave. Groundwater Recharge | Separation | 5/30/2014 | 5.8000 | 0.24% | 0.14% |
| Melrose/Winthrop Groundwater Recharge Basins | Separation | 6/5/2014 | 5.8000 | 0.24% | 0.14% |
| McCormack Pump Station Upgrades | Best Management Practices | 9/30/2014 | | 0.00% | 0.00% |
| North Swan St. Park Revitalization | Green Infrastructure | 11/20/2015 | 0.0094 | 0.00% | 0.00% |
| Mariette Place Stormwater Storage Facility | Separation | 7/27/2017 | 2.0000 | 0.08% | 0.05% |
| Modify Bouck Regulator** | Best Management Practices | 10/31/2018 | 30.0000 | 4.06% | 2.43% |
| Floatables Control Facility for CSO 026 Outfall (Regulators Maiden, Steuben and Orange)*** | Satellite Treatment and/or Floatables Control Facilities | 12/12/2019 | N/A | N/A | N/A |
| Floatables Control Facility for CSO 030 Outfall (Regulators Quackenbush, Jackson and Livingston)*** | Satellite Treatment and/or Floatables Control Facilities | 12/12/2019 | N/A | N/A | N/A |
| Total CSO Reduction (baseline volume (739MG) * total percent reduction) | | | 54.2794 | 5.0452% | 3.02% |
| Troy (447MG annual CSO discharge) | | | | | |
| 113th Street Sewer Separation | Separation | 2013 | 58.0000 | 3.89% | 1.41% |
| Cross St. Trunk Sewer Rehabilitation Phase I | Tributary Enhancements | 10/27/2014 | 0.0000 | 0.00% | 0.00% |
| Cross St. Trunk Sewer Rehabilitation Phase I | Tributary Enhancements | 10/27/2014 | 0.0000 | 0.00% | 0.00% |
| Cross St. Sewer Outfall Repairs and/or Replacement | Tributary Enhancements | 1/21/2015 | 0.0000 | 0.00% | 0.00% |
| Upgrade Pump Stations Located in Troy** | Best Management Practices | 3/30/2016 | 179.0000 | 40.04% | 14.48% |
| Monument Square Green Infrastructure Project | Green Infrastructure | 11/18/2016 | 0.7600 | 0.05% | 0.02% |
| Hoosick St. Storm Sewer Extension | Separation | 9/7/2018 | 4.0000 | 0.27% | 0.10% |
| 123/124th St. Sewer Separation | Separation | 6/15/2020 | 1.0000 | 0.07% | 0.02% |
| Total CSO Reduction (baseline volume (447MG) * total percent reduction) | | | 242.7600 | 44.3239% | 16.03% |
| Cohoes (21MG annual CSO discharge) | | | | | |
| 2011 Storm Sewer Improvements | Separation | 2012 | 12.0000 | 5.71% | 0.10% |
| George St. Sewer Separation | Separation | 6/11/2015 | 0.2000 | 0.10% | 0.00% |
| Middle Vliet St. Sewer Separation | Separation | 11/30/2017 | 0.0600 | 0.29% | 0.00% |
| Improvements at up to Eleven Regulators** | Best Management Practices | 7/18/2017 | 2.3000 | 10.95% | 0.19% |
| Total CSO Reduction (baseline volume * total (21MG) percent reduction) | | | 14.5600 | 17.0476% | 0.29% |
| Rensselaer (20MG annual CSO discharge) | | | | | |
| Broadway Sewer Separation and Dry-Weather Overflow Elimination Project | Separation | 2012 | 2.8000 | 1.40% | 0.02% |
| Washington Avenue Sewer Improvements and elimination of Farley Drive CSO | Separation | 2011 | 0.0100 | 0.01% | 0.00% |
| Upgrade Pump Stations** | Best Management Practices | 8/10/2015 | 2.0000 | 10.00% | 0.16% |
| Partition St./Broadway Sewer and Drain Improvements | Separation | 12/29/2015 | 2.0000 | 1.00% | 0.02% |
| Total CSO Reduction (baseline volume (20MG) * total percent reduction) | | | 6.8100 | 12.4050% | 0.20% |
| Green Island (4.6MG annual CSO discharge) | | | | | |
| Albany Ave. Green St. Project | Green Infrastructure | 6/25/2014 | 2.3000 | 5.00% | 0.02% |
| Swan St. and Hamilton St. Regulator Improvements** | Best Management Practices | 8/10/2015 | 3.7000 | 80.43% | 0.30% |
| Total CSO Reduction (baseline volume (4.6MG)* total percent reduction) | | | 6.0000 | 85.43% | 0.32% |
| Watervliet (4.8MG annual CSO discharge) | | | | | |
| Route 32 Green St. Project | Green Infrastructure | 1/30/2017 | 1.3342 | 2.78% | 0.01% |
| Improvements at Five Regulators, plus regulator at 18th and Ave. A.** | Best Management Practices | 9/7/2017, 11/18/18 | 4.7000 | 97.92% | 0.38% |
| Total CSO Reduction (baseline volume (4.8MG) * total percent reduction) | | | 6.0342 | 100.70% | 0.39% |
| Troy and Rensselaer (467MG annual CSO discharge) | | | | | |
| Regulator Capacity Improvements* * | Best Management Practices | 5/21/2016 | 30.0000 | 6.42% | 2.43% |
| Total CSO Reduction (baseline volume (467MG) * total percent reduction) | | | 30.0000 | 6.42% | 2.43% |

| Total Million Gallons of CSO Reduction | Pool-Wide Annual Percent CSO Reduction (%) |
|--|--|
| 360.4436 | 22.67% |

*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.

**These projects have calculated CSO reduction based not on RRV but diversion to interceptor or a modeled flow reduction. The optimized model that estimates the post construction CSO discharge volumes at the regulators in these three communities takes into consideration the completion of all of the LTCP projects within these communities, even those yet to be undertaken, not simply the retrofit of the regulators. Thus, the actual annual community level reduction volume will continue to increase as future projects are implemented in the sewershed.

Annually, these floatables facilities screen 70 mg of flow.

Last Updated 8/31/20

Appendix C: Population Projections

Population Trends - 2018 - 2019

| Community | July, 2018 | July, 2019 | Change in Population | Percent Change in Population |
|--------------|------------|------------|----------------------|------------------------------|
| Albany | 98,498 | 97,889 | -609 | -.62% |
| Troy | 49,826 | 49,610 | -216 | -.43% |
| Cohoes | 16,574 | 16,599 | 25 | .15% |
| Watervliet | 10,201 | 10,120 | -81 | -.79% |
| Rensselaer | 9,375 | 9,290 | -85 | -.91% |
| Green Island | 2,621 | 2,591 | -30 | -1.14% |

| | | | | |
|------------------|----------------|----------------|-------------|--------------|
| Pool-Wide | 187,095 | 186,099 | -996 | -.53% |
|------------------|----------------|----------------|-------------|--------------|

Annual Estimates of the Resident Population: July 1, 2018 to July 1, 2019