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Gary Hughes
Joe Landry
Barbara Mauro

March 1, 2021

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

Re: Albany Pool Communities Second 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 Second 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 July 1, 2020 and December 31, 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

Second Term, 2020
(July 1 – December 31, 2020)

March 1, 2021

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 **July 1, 2020 and December 31, 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 2020 population projections for the CSO communities for the 2020 First 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

The City of Albany completed plans and specifications for all five phases of the Beaver Creek Clean River project and submitted these items to NYSDEC and NYSEFC for review on 9/2/20. All five phases have been bid. Phase I was awarded and notice to proceed was issued. Phase II was awarded but notice to proceed has been delayed as there are comments by NYSDEC and EFC to be addressed for approval of plans and specifications. We anticipate these concerns will be addressed in the next month. Phase III, IV and V have not been awarded, because project costs were found to be exceeding project financing, so decisions were needed concerning use of current funding and what to delay until additional funding is secured. The Albany Water Board awarded Phase III and V (General) contingent on receipt of a NYSDEC SPDES permit modification and NYSDEC/EFC approval of plans and specifications. We anticipate being able to

issue notice to proceed in April. It has been determined that Phase IV would be the contract to delay, as there is sufficient funding to allow the other phases to proceed and a delay to the start of Phase IV may not affect the project completion date.

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 (July 1, 2020 – December 31, 2020)

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	City of Albany	Completed Final Plans and Specifications	10/1/2020	9/2/2020	The project has noticed to proceed.
SSS-08	123rd St. Stream Separation	APCs	Troy	Construction Completion Date & Operational Start Up Date	12/15/2020	6/15/2020	Project completed.
SSS-09	Mereline Combined Sewage Storage	APCs	Albany	Construction Completion Date & Operational Start Up Date	12/15/2020	6/16/2020	Project completed.
SSS-08	123rd St. Stream Separation	APCs	Troy	Construction Completion Date & Operational Start Up Date	12/15/2020	6/15/2020	Project completed.

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, 2021 – 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	Complete SEQR & Eminent Domain	2/1/2021	Completed June 28, 2019. Note: Eminent Domain not needed as the project was relocated land owned by the City.
STCF-03	"Big C" Disinfection and Floatables Control Facility	APCs	Albany	Notice to Proceed	4/1/21	Notice to proceed was issued 2/10/21.

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

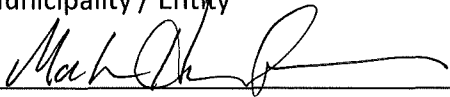
CDRPC staff attends monthly MS4 working group meetings for both Albany and Rensselaer County, informing coalition members on the progress of the LTCP. CDRPC is also a participant of the Albany County Water Quality Working Group, a body that also meets monthly, to share program progress.

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.

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

2/20/21
Date

City of Cohoes
Municipality / Entity

Signature

Name

Title

Date

City of Troy
Municipality / Entity

Signature

Name

Title

Date

City of Albany
Municipality / Entity

Signature

Name

Title

Date

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

City of Cohoes
Municipality / Entity

Signature

[Handwritten Signature]
Signature

Name

Garrett F. Nathan
Name

Title

CITY ENGINEER
Title

Date

2/26/2021
Date

City of Troy
Municipality / Entity

City of Albany
Municipality / Entity

Signature

Signature

Name

Name

Title

Title

Date

Date

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

City of Cohoes
Municipality / Entity

Signature

Signature

Name

Name

Title

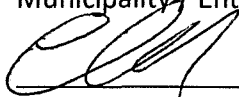
Title

Date

Date

City of Troy
Municipality / Entity

City of Albany
Municipality / Entity



Signature

Signature

Chris Weiland

Name

Name

Superintendent

Title

Title

2/26/21

Date

Date

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

City of Cohoes
Municipality / Entity

Signature

Signature

Name

Name

Title

Title

Date

Date

City of Troy
Municipality / Entity

City of Albany
Municipality / Entity

Signature

W. Amicoe

Signature

Name

William D. Silvanoe, P.E.

Name

Title

Deputy Commissioner

Title

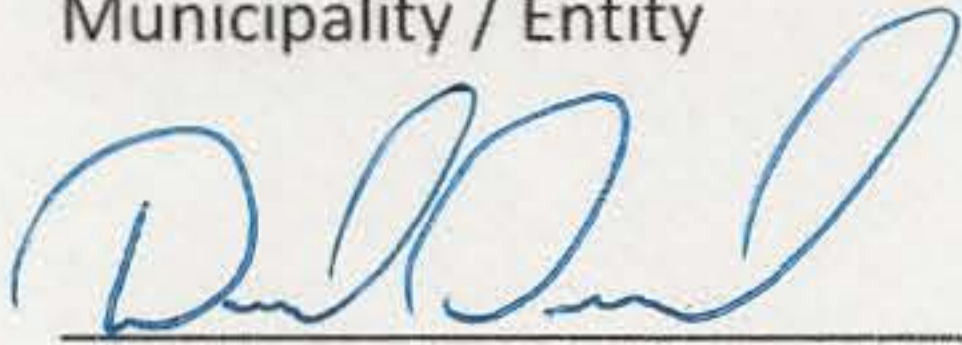
Date

2-26-2021

Date

City of Watervliet
Municipality / Entity

Village of Green Island
Municipality / Entity



Signature

David Dressel
Name

Name

Watersystems Supervisor
Title

Title

2/26/21
Date

Date

Albany County Water Purification District
Municipality / Entity

Rensselaer County Sewer District
Municipality / Entity

Signature

Signature

Name

Name

Title

Title

Date

Date

City of Watervliet
Municipality / Entity

Village of Green Island
Municipality / Entity

Sean E. Ward

Signature

Signature

Sean E. Ward

Name

Name

Executive Assistant to the Mayor

Title

Title

February 26, 2021

Date

Date

Albany County Water Purification District
Municipality / Entity

Rensselaer County Sewer District
Municipality / Entity

Signature

Signature

Name

Name

Title

Title

Date

Date

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

Paul Randow

Signature

Signature

Angelo Gaudio

Name

Name

Executive Director

Title

Title

2/24/2021

Date

Date

DEC Case #CO 4-20120911-01

Second Term, 2020

City of Watervliet
Municipality / Entity

Village of Green Island
Municipality / Entity

Signature

Signature

Name

Name

Title

Title

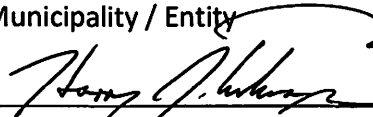
Date

Date

Albany County Water Purification District
Municipality / Entity

Rensselaer County Sewer District
Municipality / Entity

Signature


Signature

Name

Harry J. Tutunjian
Name

Title

Legislative Liaison - Alternate member
Title

Date

February 26, 2021
Date

Appendix A: Project Sheets

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:

Harry Tutunjian
 Acting on behalf of RCSD
Htutnjan@rensko.com / 518-270-2880

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 excepted 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.

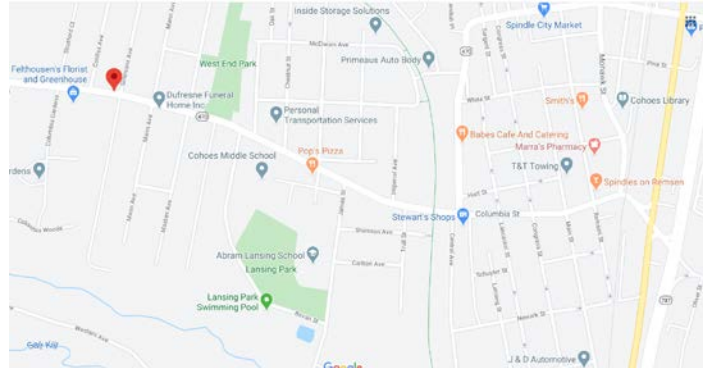
3/1/21: The Final Report submitted on November 30, 2020 was found to be satisfactory was approved by the DEC. With the approval, due to the necessity of the improvements to comply with County's SPDES permit, the work is subject to enforcement under the Albany Pool CSO LTCP Order of Consent CO 4-20120911-01. As identified under Section 5.3 of the report, the following improvements were deemed necessary to meet the hydraulic loading rates stated under Best Management Practice #5 of the County's SPDES Permit NY0087971:

- **Adjustable weir gate capable of being raised to increase flow to secondary treatment**
- **Aeration tank influent channel gate actuators coupled with new flow meters**
- **Operational adjustment of using additional aeration basin(s) for equalization**

The recommended improvements were scheduled to be completed in conjunction with the RCSD Aeration and Miscellaneous Improvements project, which is necessary due to the aging condition of the aeration basins equipment and for ensuring capability to handle the required SPDES permit secondary treatment loading for long duration and peak wet weather. The cited improvements above and the Aeration and Miscellaneous Improvements project shall be completed by the proposed implementation schedule of December 31, 2023. A revised Wet Weather Operating Plan incorporating the plant upgrades and optimizing system operations shall be submitted no later than June 30, 2024.

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.

3/1/20: Plans are more than 75% complete. Two public meetings are scheduled for 2 PM and 6:30 PM on March 4th. Anticipate the Plans & Specs. To be submitted to NYSDEC by June 1st 2021.

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

SSS-12

Vliet Street Sewer Rehabilitation, Replacement and Separation Cohoes



Project Description:

Continuation of the sewer separation and rehabilitation work along Vliet Street, including: a diversion of stormwater flows along the Mohawk-Hudson Bikepath 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, GIGP \$625,000.
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.

3/1/21: CHA has completed the Engineering Report and submitted both the report and a GIGP Application to NYSEFC on February 12, 2021.

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	9/2/2020
Completed SEQR & Eminent Domain Process: 2/1/21	6/28/2019
NTP to Construction: 4/1/21	2/10/2021
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.

3/1/21: All five phases have been bid. Phase I was awarded and notice to proceed was issued. Phase II was awarded, but notice to proceed has been delayed as there are comments by NYSDEC and EFC to be addressed for approval of plans and specifications. We anticipate these concerns will be addressed in the next month. Phase III, IV and V have not been awarded, because project costs were found to be exceeding project financing, so decisions were needed concerning use of current funding and what to delay until additional funding is secured. The Albany Water Board awarded Phase III and V (General) contingent on receipt of a NYSDEC SPDES permit modification and NYSDEC/EFC approval of plans and specifications. We anticipate being able to issue notice to proceed in April. It has been determined that Phase IV would be the contract to delay, as there is sufficient funding to allow the other phases to proceed and a delay to the start of Phase IV may not affect the project completion date.

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%
Marieette Place Stormwater Storage Facility	Separation	7/27/2017	2.0000	0.08%	0.05%
Modifly 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	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.

Program Goals		
Areas of Concern	Baseline	End of Program
Untreated CSO Volume (Millions of gallons)	1236	610
Number of Events	65	65
Wet Weather Flow Treated (Millions of gallons)	2827	3453
Pool-Wide Percent Capture	69.50%	85%
CSO Flow Receiving Floatables Capture	27	454
Pool-Wide Treatment & Floatables Capture	70.10%	88.80%
Disinfection at Treatment Plants	No	Seasonal
Fecal Coliform Water Quality Standard Violations	30	0

Program Metrics			
Areas of Concern	Baseline	Current	End of Program
Untreated CSO Volume (Millions of gallons)	1236	876	610
Wet Weather Flow Treated (Millions of gallons)	2827	3106	3453
Pool-Wide Percent Capture	69.50%	76.40%	85%
CSO Flow Receiving Floatables Capture	27	37	454
Pool-Wide Treatment & Floatables Capture	70.10%	77.4	88.80%
Disinfection at Treatment Plants	No	Seasonal	Seasonal

Last update: February 24, 2021

Appendix C: Population Projections

Population Trends - 2019 - 2020

Community	July, 2019	July, 2019	Change in Population	Percent Change in Population
Albany	97889	98,187	298	0.30%
Troy	49610	50098	488	0.98%
Cohoes	16599	16549	-50	-0.30%
Watervliet	10120	10315	195	1.93%
Rensselaer	9290	9531	241	2.59%
Green Island	2591	2608	17	0.66%

Pool-Wide	186,099	187,288	1,189	0.64%
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Annual Estimates of the Resident Population: July 1, 2019 to July 1, 2020