BUFFALO

SEWER AUTHORITY

SPDES Permit No. NY0028410

Long Term Control Plan Semi-Annual Status Report

Reporting Period: *January through June 2025*

Amended Administrative Order

CWA-02-2014-3033

(Amends CWA-02-2012-3024)

September 2025

Long Term Control Plan Semi-Annual Status Report

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1. INTRODUCTION

The Buffalo Sewer Authority (BSA, Buffalo Sewer, Authority) received approval of its Long-Term Control Plan (LTCP) from the United States Environmental Protection Agency (USEPA) and New York State Department of Environmental Conservation (NYSDEC) on March 18, 2014. The Authority entered into an Amended Administrative Order on April 16, 2014 (herein after referred to as the AO), with the USEPA. This AO establishes a schedule for implementation of the Authority's LTCP, approved by the USEPA and NYSDEC.

The AO in part requires that the Authority submit written Semi-Annual Status Reports to the USEPA and NYSDEC by September 1 for current year January 1– June 30 reporting period, and March 1 for the previous calendar year July 1 – December 31 reporting period. The AO requires that the following be provided in each Semi-Annual Status Report:

- The project milestones, deadlines and other terms that the Authority is required to meet since the date of the last Semi-Annual Status Report, whether and to what extent the Authority has met those requirements, and the reason for any anticipated delays and/or noncompliance.
- A general description of the work completed during the reporting period and the applicability of the work to meet indicated design criteria, as well as the projection of work to be performed during the next reporting period and any anticipated delays for the upcoming work. Any changes in key personnel must also be noted.
- Enclosure of public meeting (if held) materials including: advertisements, handouts, formal meeting notes, and a summary of the meeting.
- Copies (to USEPA only) of all monthly monitoring reports or other reports pertaining to combined sewer overflows (CSOs) and bypasses that Authority submitted to the NYSDEC during the reporting period. Please note DMRs are now submitted electronically directly to the USEPA and no dry weather CSOs occurred during this period, so this item does not apply during this reporting period.

This report covers January 1 through June 30, 2025, which serves as Semi-Annual Report No. 23.

2. REQUIREMENTS DUE IN REPORTING PERIOD

This document serves as the September 1, 2025, Semi-Annual Report.

Section 3 describes the work completed during this reporting period, as well as the projection of work to be performed during the next reporting period. Attachment A provides the current status and milestones associated with all projects listed in the Administrative Order. Detailed project descriptions, including the project location and goals, are provided in Attachment B. Issues concerning implementing these projects as well as anticipated delays are detailed in Section 4. Changes in key personnel are described in Section 5. Section 6 summarizes the public meetings that occurred in this reporting period and copies of materials from these

meetings are included in Attachment C. Attachment D provides the Preliminary Engineering Reports that were submitted to NYSDEC during this reporting period. A summary of BSA Board meeting items concerning LTCP projects and copies of these meeting minutes and attachments, as relevant, are included in Attachment E. Section 7 describes the changes to the model in this reporting period and Section 8 describes the achievements for the Green Infrastructure projects in this reporting period. One Certificate of Acceptance and Occupancy was issued during this reporting period for the Smith Street at Eagle Street Real Time Control project and a copy is included in Attachment F.

3. WORK COMPLETED IN CURRENT REPORTING PERIOD AND PROJECTION OF WORK TO BE PERFORMED NEXT REPORTING PERIOD

A general description of the work completed on LTCP projects during the current reporting period and the work projected to be performed during the next reporting period is provided in Attachment A. Items that have been completed have been highlighted green. A more detailed description of each project including the location and the goal to be achieved through each project is provided in Attachment B.

With this report, while discussions are ongoing regarding the future of the LTCP, projects as outlined in the Draft LTCP Optimization Selected Alternative dated December 22, 2023, are listed as a separate tables within Attachments A and B. Cost data was requested in the proposed consent decree language provided by the regulatory agencies and United States Department of Justice. To address this request, columns have been added in Attachment A.

By providing this information now, Buffalo Sewer is demonstrating a good faith effort to ensure that at such time as the Draft LTCP Optimization Selected Alternative replaces the 2014 LTCP as a compliance document, that reporting conforms to formatting agreeable to all parties and that during this transition period the regulatory agencies are kept apprised of our progress.

4. IMPLEMENTATION ISSUES

The Authority has been, and will continue to, work with internal staff and all necessary outside parties to facilitate the timely completion of LTCP projects.

In demonstration of the ongoing work that Buffalo Sewer has accomplished during this time period Attachment E: Board Items for LTCP Projects has been included in this submission.

4.1 NFA Phase 1

This phase of facility construction work continued during this reporting period with the startup of the rehabilitated and improved aeration tanks in Battery A. The next phase of the project is underway with Battery B being taken out of service to complete similar upgrades as Battery A. Aeration diffuser installation and RAS piping replacement in all of the Battery

A tanks is completed. Due to Battery B being out of service during construction, the capacity of the secondary system has been reduced to the point of dry weather partial treatment at times. The sluice gates in the Chlorine Contact Tank (CCT) Influent channel have been replaced coincident with the initial shutdown of CCT No. 3 and 4 and the upcoming shutdown of CCT No. 1 and 2. Debris in the wet well of the Settled Wastewater Pump Station has been cleaned out and the isolation gates have been replaced.

4.2 NFA Phase 2

Phase 2 has been split into two separate contracts with Contract 2A consisting of work at the Primary Sedimentation Tanks and the Sludge Pumping Station and Contract 2B consisting of work for the new High-Rate Disinfection Facility and Chlorine Contact Tanks, Outfall 002, and the Bypass SH Facility. Construction work for Contract 2A has begun with site mobilization and initial staging for demolition. The design is being completed for Contract 2B to revise drawings and specifications. Contract 2B will go out for bid in fall 2025.

4.3 NFA Phase 3

Design for NFA Phase 3 has started and includes a new chlorine contact tank, two (2) new final settling tanks, improvements to the existing sixteen (16) final settling tanks, as well as upgrades to the Settled Wastewater Pump Station, six (6) Final Control Buildings and Final Effluent Building. The 30% design was completed in May 2025. It is anticipated that design will continue through 2026, and the project will be bid in 2027.

4.4 CSO 053_11 Canisius / Jefferson Delavan OLS (Part of the East Delavan Sewer Project Contract)

During this reporting period, public outreach, environmental and geotechnical investigations, and design activities continued. The Draft Environmental Impact Statement (DEIS) was published for Contracts 2 and 3 work. It is anticipated that during the next reporting period, public outreach, investigations & detailed design development will continue and the Final EIS (FEIS) will be published.

4.5 CSO 053_3.2 Bailey & Amherst (Part of Scajaquada Creek and Black Rock Canal RTCs)

This work is included in the ongoing project titled “Scajaquada Creek and Black Rock Canal Smart Sewer Project.” The work specifically for Bailey and Amherst began in the previous reporting period and is ongoing.

4.6 CSO 010_1 Breckenridge Niagara RTC (Now Breckenridge St CSO Control)

This work was severed from the “Scajaquada Creek and Black Rock Canal RTCs” project and renamed “Breckenridge Street CSO Control Project”. The design contract was completed during the previous reporting period. It is anticipated that construction of this project will begin in spring 2026.

4.7 CSO 006_2 Gates Circle RTC (Part of Scajaquada Creek and Black Rock Canal Smart Sewers Contract)

This work is included in the ongoing project titled “Scajaquada Creek and Black Rock

Canal Smart Sewer Project." The work specific to Gates Circle RTC began in the previous reporting period and is ongoing.

4.8 CSO 053_10 SPP 229A RTC (Part of the East Delavan Sewer Project Contract)

Construction for Contract 1 began in this reporting period and is actively progressing. Final design for Contract 2 will complete the scoped improvements and it anticipated to be completed in the next reporting period.

4.9 CSO 053_12.2 Jefferson Ave GI

Various green infrastructure options were reviewed during this reporting period, and it was determined that none were feasible due to significant utility conflicts and site constraints. Instead, the goals of this project are anticipated to be achieved through alternative green infrastructure projects in the vicinity, but outside of the actual Jefferson Avenue corridor.

4.10 CSO 053_12.1 Jefferson Ave GI

Various green infrastructure options were reviewed during this reporting period, and it was determined that none were feasible due to significant utility conflicts and site constraints. Instead, the goals of this project are anticipated to be achieved through alternative green infrastructure projects in the vicinity, but outside of the actual Jefferson Avenue corridor.

4.11 CSO 053_3.3 Bailey & Minnesota SPP 254 Modification (Part of Scajaquada Creek and Black Rock Canal Smart Sewers Contract)

This work is included in the ongoing project titled "Scajaquada Creek and Black Rock Canal RTCs." The work specific to Bailey & Minnesota was substantially completed during the previous reporting period.

4.12 CSO 053_2.5 SPP 337 Modification

During this reporting period, the project continued into the 60% design. The State Environmental Quality Review (SEQR) was completed and the SEQR documents are included in Attachment D. Design and public outreach are planned to continue in the next reporting period. Specific to this site, it should be noted that PCBs were found in a boring sample and further groundwater and soil investigations are being coordinated with NYSDEC to ensure that remediation of the adjacent brownfield, related superfund site, and the SPP modification are properly coordinated. Design is scheduled to be finalized and ready for bidding in the first half of 2026.

4.13 CSO 053_3.1 SPP 338 Modification

Preliminary design of this project was completed in the period covered by the last semi-annual report. Because this project occurs at an SPP already included in another project, the modifications at this site were added as a change order to the existing contract. The change order has been approved by the Authority and is in the process of being executed by all parties. Contractor submittals are expected in the coming weeks.

4.14 CSO 053_8 SPP 341A Modification

Preliminary design of this project was completed in the period covered by the last semi-annual report. During this reporting period, the project continued into final design. The

State Environmental Quality Review (SEQR) was completed and the SEQR documents are included in Attachment D. Design and public outreach are planned to continue in the next reporting period. Design is scheduled to be finalized and ready for bidding in fall 2025.

4.15 CSO 053_1.5 SPP 336B

Preliminary design of this project continued during this reporting period. Field investigations confirmed that the orifice plate in the existing SPP is no longer installed. However, raising the weir in this location is still required. This project is included as one of the various projects in the "CSO053 Various SPP Modifications" project which has been designed through the 90% design stage and is expected to go out to bid in Fall 2025.

4.16 CSO 053_1.4 Sidney Street OLS (replaced by Sidney-Lark RTC/Inline Storage)

The revised preliminary engineering report (PER) was submitted to DEC during this reporting period. The revised PER is included in Attachment D. Design and public outreach are planned to continue in the next reporting period.

4.17 CSO 053_14 SPPs 175, 176, & 177 Modifications

Preliminary design of this project was completed in the period covered by the last semi-annual report. During this reporting period, the project continued into final design. These weir raising projects are included in the "CSO053 Various SPP Modifications" project which has been designed through the 90% design stage and is expected to go out to bid in fall 2025.

4.18 CSO 053_5.2 Edison & Martha OLS (Roosevelt Park OLS)

The revised preliminary engineering report (PER) was submitted to NYSDEC during this reporting period. The revised PER is included in Attachment D. Design and public outreach are planned to continue in the next reporting period.

4.19 CSO 053_13 SPP165B Modification

Field investigations have determined that an 18" orifice plate that restricted flow to the Scajaquada Tunnel has already been removed and that flow from Humboldt Parkway is conveyed through a parallel sewer that does not contribute to overflows at this location. Further modifications are therefore no longer required per model updates reflecting these conditions.

4.20 System_2_3 SPP 339Modification

Design has started including the obtaining of soil borings. The topographical survey has been delayed because construction of a waterline project (administered by Buffalo Water) has impeded access at this location. It is expected that the survey will be completed in August/September 2025.

4.21 System_2_4 SPP 340 Modification

Design has started including the obtaining of soil borings and topographical survey.

4.22 CSO013_1 SPP 304 Modification

Design has started. Because all modifications are scheduled to take place within the

existing chamber, no topographical survey or soil borings are needed in this location.

4.23 CSO017_8 SPP 326 Modification

Design has started including topographical survey and video inspection of the existing SPP. Because of the configuration of this SPP, computational fluid dynamics analysis has been started to evaluate the best approach to increasing the amount of flow entering the underflow pipe.

4.24 CSO 064_1.1 CSO064 ILS

Design has started including topographical survey and obtaining soil borings.

4.25 CSO 064_1.2 SPP 137 Modification

Design has started including topographical survey and obtaining soil borings.

5. CHANGES IN KEY PERSONNEL

On December 31, 2024, General Manager Oluwole A. McFoy, PE resigned as General Manager. Rosaleen B. Nogle, PE (Principal Sanitary Engineer) and Charles Riley (Executive Secretary) per the bylaws of the Buffalo Sewer Authority assumed joint management of the Authority on behalf of the Board while the search for a new General Manager is ongoing. On May 9, 2025, Adam Sassone, Secretary to the General Manager resigned from his position. During Buffalo Sewer Authority Board meeting on April 9, 2025, Thomas Caulfield, PhD, Hope Watkins-Young, and Pat Sole, Jr. joined the Board and Eleanor Petrucci officially resigned from the Board.

6. PUBLIC MEETINGS

On January 28, 2025, Buffalo Sewer and its Program Management team issued a press release for the Queen City Clean Waters (QCCW) initiative Request for Proposal (RFP) for engineering and construction work. A copy of the press release is included in Attachment C.

On January 31, 2025, Buffalo Sewer and its Program Management team issued an RFP for Sidney-Lark and Edison-Martha Offline Storage Tanks. On February 2, 2025, Buffalo Sewer posted a notification of this RFP on its website and this post is included in Attachment C. On February 11, 2025, Buffalo Sewer Authority and its Program Management consultant hosted a pre-proposal information session for this RFP. A recording of this pre-proposal meeting is available at youtube.com/watch?v=y6p_e4HGYuw. Three addendums for these RFPs were posted on February 12, February 20, and February 28, 2025, respectively. Copies of these materials are included in Attachment C.

On February 4, 2025, Rosaleen Nogle, Principal Sanitary Engineer, presented at the New York Water Environment Association's (NYWEA) Annual Meeting in New York, NY on Buffalo Sewer's efforts to Setting up a Program Management System for a Major Capital Projects

Implementation Plan. A copy of the presentation is included in Attachment C.

On February 4, 2025, Tim Blake, Senior Instrument Technician, presented at the New York Water Environment Association's (NYWEA) Annual Meeting in New York, NY on Dynamic Planning: Buffalo Sewer Authority's Bird Island WWTF Wet Weather Capacity Projects. A copy of the presentation is included in Attachment C.

On February 18, 2025, Buffalo Sewer and its Program Management team issued a press release for the launch of its interactive Queen City Clean Waters website. A copy of the press release is included in Attachment C.

On March 18, 2025, Rosaleen Nogle, Principal Sanitary Engineer, presented at the New York Water Environment Association's (NYWEA) Greater Buffalo Environmental Conference in Buffalo, NY on Queen City Clean Waters: Leveraging Infrastructure Projects into Community Investment. A copy of the presentation is included in Attachment C.

On March 18, 2025, Buffalo Sewer was featured in the Buffalo Criterion news publication, Buffalo Sewer launches interactive website as part of $1 billion Queen City Clean Waters initiative - Buffalo Rising, for the launch of its QCCW interactive website. A copy of this news publication is included in Attachment C.

On April 7, 2025, Buffalo Sewer and its Program Management team issued a press release for the public participation forums regarding the Queen City Clean Waters initiative. A copy of this press release is included in Attachment C.

On April 8, 2025, Buffalo Sewer held an event to celebrate the 90th Anniversary of its founding and the breaking of ground for the East Delavan Phase 1 project. A copy of the Authority's LinkedIn post is included in Attachment C.

On April 15, 2025, Rosaleen Nogle, Principal Sanitary Engineer, presented at the Water Environment Association of Ontario's (WEAO) Annual Meeting in London, Ontario, Canada on Buffalo Sewer's efforts to Setting up a Program Management System for a Major Capital Projects Implementation Plan. A copy of the presentation is included in Attachment C.

On April 15, 2025, Buffalo Sewer was featured in The Buffalo News publication, $1 billion needed to end sewage overflows in Buffalo rivers. A copy of this news publication is included in Attachment C.

On April 29, 2025, Rosaleen Nogle, Principal Sanitary Engineer, was interviewed about the Queen City Clean Waters projects by Channel 7 News. A recording of this interview is available at https://www.youtube.com/watch?v=GsNy_kkJeKs.

Throughout April of 2025, Buffalo Sewer Authority was featured by various media outlets for coverage of BSA workforce opportunities and advertisement for public participation forums. A table of the media sources, outlets, and local viewership is included in Attachment C.

In April through June of 2025, Buffalo Sewer and its Program Management team hosted public participation forums specific to QCCW projects in each of the nine Common Council Districts. Recordings and flyers from these meetings are available in the document library at https://buffaloqccw.org. Copies of materials from these presentations are included in Attachment C. These meetings occurred on the following dates at the following locations:

- On April 17, 2025, the South District meeting occurred at the Buffalo Irish Center.
- On April 24, 2025, the University District meeting occurred at Gerard Place.
- On April 28, 2025, the Masten District meeting occurred at Northland Training Center.
- On May 13, 2025, the Lovejoy District meeting occurred at Schiller Park Senior Center.
- On May 14, 2025, the Fillmore District meeting occurred at Matt Urban Services Center.
- On May 20, 2025, the Ellicott District meeting occurred at Pratt Willert Community Center.
- On June 10, 2025, the Delaware District meeting occurred at Dash's Market on Hertel Ave.
- On June 12, 2025, the Niagara District meeting occurred at the Belle Center.
- On June 17, 2025, the North District meeting occurred at Northwest Buffalo Community Center.

On May 12, 2025, Buffalo Sewer was featured in The Buffalo News publication, Public meetings begin for Sewer Authority's $1 billion plan. A copy of this news publication is included in Attachment C.

On May 15, 2025, Buffalo Sewer was featured in River Rock Times for advertisement of the Ellicott District public participation forum. A copy of this news publication is included in Attachment C.

On June 11, 2025, Rosaleen Nogle, Principal Sanitary Engineer, was interviewed about the Queen City Clean Waters projects by the Capitol Pressroom. A recording of this interview is available at How Buffalo deals with its wastewater - | Capital Pressroom|.

Throughout this reporting period, informational flyers were distributed to planning neighborhoods as part of the ongoing Envision Neighborhoods community engagement strategy. Copies of these flyers are included in Attachment C.

Throughout this reporting period, project information flyers on planned LTCP projects were developed for public outreach purposes and distributed to residents and businesses of those respective Common Council Districts. Copies of these flyers are included in Attachment C.

Throughout this reporting period, flyers were distributed to residents in Common Council Districts to alert them of soil investigations and drill boring activities occurring for LTCP projects. Copies of these flyers are included in Attachment C.

Throughout this reporting period, Buffalo Sewer Authority met monthly with its Stakeholder Advisory Committee (SAC) comprised of a diverse group of representatives from various groups and organizations who represent the neighborhoods and communities where LTCP projects are taking place. The meeting materials and notes from the SAC meetings are available at

https://buffalosewer.org/construction-projects/queen-city-clean-waters/.

The "Program Community Engagement" spreadsheet included in Attachment C outlines the events that Buffalo Sewer and its Program Management team attended for community engagement during this reporting period.

Throughout this reporting period, Buffalo Sewer ran a robust social media campaign to raise awareness and promote the QCCW initiative. Posts from the Buffalo Sewer Authority LinkedIn, Facebook, and X accounts during this reporting period are included in Attachment C.

7. MODEL MODIFICATIONS

On October 6, 2021, the United States Environmental Protection Agency (EPA) and New York State Department of Environmental Protection (NYSDEC) approved Buffalo Sewer's "Collection System Model- Model Update Report." The Buffalo Sewer Authority has continued to utilize the updated model to review the physical and financial feasibility and efficacy of projects remaining in the Long-Term Control Plan. While the current conditions version of the model was updated in the last reporting period to reflect completion of the Mill Race RTC project, no additional projects have been placed into service in the current reporting period.

Throughout the reporting period, negotiations regarding a revised Long-Term Control Plan between the USEPA, NYSDEC, USDOJ, NYS Attorney General's Office, and the Buffalo Sewer Authority have been ongoing. Additionally, during this period, the renewal of Buffalo Sewer's Publicly Owned Treatment Works (POTW) has been under review and subject to multiple submissions and discussions between Buffalo Sewer, USEPA, and NYSDEC.

8. GREEN INFRASTRUCTURE

Buffalo Sewer remains committed to meeting the original conditions of the LTCP under the Amended Administrative Order to use Green Infrastructure (GI) to the extent originally approved. At this time, GI is not being proposed as a replacement for gray infrastructure, but rather in conformance with the approved LTCP.

GI projects funded through the Environmental Impact Bond will include a mix of stormwater tree trenches, bump-outs, and planters within the right-of-way, as well as permeable pavement, underground storage, and rain gardens on public properties. These initiatives are designed to provide supplemental storage for the combined sewer system and enhance water quality. BSA has partnered with the Department of Public Works, Buffalo Public Schools, and the Buffalo Municipal Housing authority to implement the Environmental Impact Bond projects. These collaborations offer mutual benefits: BSA can advance stormwater management on public properties, while partners benefit from site improvements such as new paving, street trees, and vegetation.

9. CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

8/29/2025

Rosaleen Nogle, PE, Principal Sanitary Engineer

Date

Attachment A to the Semi-Annual Status Report: September 2025

Work Completed in Current Period/Projection of Work to be Performed in Next Reporting Period

Project Name and Tag	Costs	Design	Construction + CA/CI	Total	Project Milestone	Proposed Deadline	Actual Completion	Milestone Status
NFA Phase I	Estimated	$ 7,190,000.00	$ 64,710,000.00	$ 71,900,000.00	Design Start	11/25/2019	11/25/2019	Complete
	Committed	$ 785,137.00	$ 60,553,128.00	$ 61,338,265.00	Design Completion	6/23/2022	6/23/2022	Complete
	To Date	$ 785,137.00	$ 36,750,433.00	$ 37,535,570.00	Notice to Proceed	9/27/2022	9/27/2022	Complete
	This Report	$ -	$ 6,840,143.00	$ 6,840,143.00	Construction Completion	5/25/2030		
NFA Phase II (Phase IIA and IIB)	Original Estimate	$ 7,400,000.00	$ 66,600,000.00	$ 74,000,000.00	Design Start	10/28/2020	10/28/2020	Complete
	Forecast at Completion	$ 4,214,150.00	$ 117,160,000.00	$ 121,374,150.00	Design Completion	7/10/2025	12/12/2024	Complete
	Committed	$ 3,122,375.00	$ 43,160,925.00	$ 46,283,300.00	Notice to Proceed	7/23/2026		
	To Date	$ 295,339.00	$ 2,481,654.00	$ 2,776,993.00	Construction Completion	12/26/2031		
	This Report	$ 134,761.00	$ 1,258,937.00	$ 1,393,698.00				
NFA Phase III	Estimated	$ 7,500,000.00	$ 67,500,000.00	$ 75,000,000.00	Design Start	3/2/2024	4/26/2024	Complete
	Committed	$ 4,840,000.00	$ -	$ 4,840,000.00	Design Completion	9/30/2027		
	To Date	$ 2,004,329.00	$ -	$ 2,004,329.00	Notice to Proceed	3/31/2028		
	This Report	$ 1,368,538.00	$ -	$ 1,368,538.00	Construction Completion	12/31/2031		
Non-NFA Phase III Improvements	Estimated	$ 7,500,000.00	$ 67,500,000.00	$ 75,000,000.00	Design Start	3/2/2024	4/26/2024	Complete
	Committed	$ 484,000.00	$ -	$ 484,000.00	Design Completion	9/30/2027		
	To Date	$ 77,481.70		$ 77,481.70	Notice to Proceed	3/31/2028		
	This Report	$ 70,643.45	$ -	$ 70,643.45	Construction Completion	6/30/2033		
Jefferson & Florida (SPP 170B) (2.6 MG) (M) Replaced by CSO053_11 1.5 MG Canisius/Jefferson Delevan OLS	Original Estimate	$ 3,000,000.00	$ 27,000,000.00	$ 30,000,000.00	Design Start	12/1/2021	9/24/2021	Complete
	Forecast at Completion	$ 3,182,854.50	$ 99,839,172.00	$ 103,022,026.50	Design Completion	6/30/2026		
	Committed	$ 3,182,854.50	$ -	$ 3,182,854.50	Notice to Proceed	11/19/2026		
	To Date	$ 2,377,908.90	$ -	$ 2,377,908.90	Construction Completion	9/11/2030		
	This Report	$ 857,270.10	$ -	$ 857,270.10				
Amherst Quarry OLS (M) Now CSO053_3.2 Bailey & Amherst, Amherst Quarry PS RTC	Original Estimate	$ 215,087.20	$ 1,935,784.80	$ 2,150,872.00	Design Start	12/1/2021	4/8/2022	Complete
	Committed	$ 959,931.00	$ 2,467,841.00	$ 3,427,772.00	Design Completion	11/27/2024	7/26/2024	Complete
	Forecast at Completion	$ 959,931.00	$ 3,258,934.00	$ 4,218,865.00	Notice to Proceed	5/28/2025	3/14/2024	Complete
	To Date	$ 815,940.00	$ 963,977.00	$ 1,779,917.00	Construction Completion	7/6/2028		
	This Report	$ 143,988.00	$ 23,160.00	$ 167,148.00				
Underflow Upsizing (CSO 008/010, 061, 004) (M) Replaced by CSO010_1 Breckenridge Niagara RTC	Original Estimate	$ 363,661.70	$ 3,272,955.30	$ 3,636,617.00	Design Start	3/1/2022	6/15/2021	Complete
	Forecast at Completion	$ 838,300.00	$ 26,152,900.00	$ 26,991,200.00	Design Completion	2/25/2025	2/4/2025	Complete
	Committed	$ 838,300.00	$ -	$ 838,300.00	Notice to Proceed	8/26/2025		
	To Date	$ 835,250.00	$ -	$ 835,250.00	Construction Completion	1/31/2029		
	This Report	$ 244,313.00	$ -	$ 244,313.00				
CSO006_2 Gates Circle RTC (Combined with Bailey & Amherst)	Original Estimate	$ 283,528.70	$ 2,551,758.30	$ 2,835,287.00	Design Start	3/1/2022	4/8/2022	Complete
	Committed	$ 929,540.00	$ 2,390,244.00	$ 3,319,784.00	Design Completion	10/8/2024	6/7/2023	Complete
	Forecast at Completion	$ 929,540.00	$ 2,390,244.00	$ 3,319,784.00	Notice to Proceed	4/8/2025	3/14/2024	Complete
	To Date	$ 910,735.00	$ 489,865.00	$ 1,400,600.00	Construction Completion	7/6/2028		
	This Report	$ -	$ 95,079.00	$ 95,079.00				
CSO053_10 SPP229A RTC	Estimated	$ 300,000.00	$ 2,700,000.00	$ 3,000,000.00	Design Start	3/1/2022	9/24/2021	Complete
	Committed	$ 353,650.50	$ 2,282,828.00	$ 2,636,478.50	Design Completion	4/23/2024	3/25/2024	Complete
	To Date	$ 308,931.30	$ 449,398.00	$ 758,329.30	Notice to Proceed	10/22/2024	10/7/2024	Complete
	This Report	$ 44,719.20	$ 449,398.00	$ 494,117.20	Construction Completion	7/19/2026		

Project Name and Tag	Costs	Design	Construction + CA/CI	Total	Project Milestone	Proposed Deadline	Actual Completion	Milestone Status
CSO053_12.2 Jefferson Ave GI	Estimated	$ 152,000.00	$ 1,368,000.00	$ 1,520,000.00	Design Start	3/1/2022	9/14/2020	Complete
	Committed	$ -	$ -	$ -	Design Completion			Refer to the report Section 8
	To Date	$ 37,950.50		$ 37,950.50	Notice to Proceed			
	This Report	$ -	$ -	$ -	Construction Completion	6/14/2028		
CSO053_12.1 Jefferson Ave GI	Estimated	$ 46,000.00	$ 414,000.00	$ 460,000.00	Design Start	3/1/2022	9/14/2020	Complete
	Committed	$ -	$ -	$ -	Design Completion			Refer to the report Section 8
	To Date	$ 37,950.50		$ 37,950.50	Notice to Proceed			
	This Report	$ -	$ -	$ -	Construction Completion	6/14/2028		
CSO053_3.3 Bailey & Minnesota SPP254 Modification (Combined with Bailey & Amherst)	Original Estimate	$ 23,238.50	$ 209,146.50	$ 232,385.00	Design Start	3/1/2022	4/8/2022	Complete
	Committed	$ 103,632.00	$ 266,422.00	$ 370,054.00	Design Completion	4/23/2024	6/7/2023	Complete
	Forecast at Completion	$ 103,632.00	$ 675,519.00	$ 779,151.00	Notice to Proceed	10/22/2024	3/14/2024	Complete
	To Date	$ 98,450.00	$ 235,452.00	$ 333,902.00	Construction Completion	7/19/2026		
	This Report	$ 5,182.00	$ 22,315.00	$ 27,497.00				
Colorado ILS (M) Replaced by CSO053_2.5 SPP337 Modification	Original Estimate	$ 6,000.00	$ 54,000.00	$ 60,000.00	Design Start	3/2/2024	2/1/2024	Complete
	Committed	$ 347,217.00	$ -	$ 347,217.00	Design Completion	6/30/2026		
	Forecast at Completion	$ 347,217.00	$ 15,652,000.00	$ 15,999,217.00	Notice to Proceed	12/31/2026		
	To Date	$ 93,486.00	$ -	$ 93,486.00	Construction Completion	12/29/2028		
	This Report	$ 66,283.00	$ -	$ 66,283.00				
South Bailey ILS (M) Replaced with CSO053_3.1 SPP338 Modification	Original Estimate	$ 400,000.00	$ 3,600,000.00	$ 4,000,000.00	Design Start	3/2/2024	2/1/2024	Complete
	Committed	$ 66,282.67	$ -	$ 66,282.67	Design Completion	12/31/2025		
	Forecast at Completion	$ 66,282.67	$ 1,618,100.00	$ 1,684,382.67	Notice to Proceed	6/30/2026		
	To Date	$ 14,758.00	$ -	$ 14,758.00	Construction Completion	12/31/2027		
	This Report	$ 4,317.00	$ -	$ 4,317.00				
SPP 341A Optimization Genesee & Kearns (M) Replaced by CSO053_8 SPP341A Modification	Original Estimate	$ 6,000.00	$ 54,000.00	$ 60,000.00	Design Start	3/2/2024	2/1/2024	Complete
	Committed	$ 463,632.00	$ -	$ 463,632.00	Design Completion	12/31/2025		
	Forecast at Completion	$ 463,632.00	$ 9,545,400.00	$ 10,009,032.00	Notice to Proceed	6/30/2026		
	To Date	$ 90,559.00	$ -	$ 90,559.00	Construction Completion	12/31/2027		
	This Report	$ 63,548.00	$ -	$ 63,548.00				
CSO053_1.5 SPP336B Modification	Original Estimate	$ 6,000.00	$ 54,000.00	$ 60,000.00	Design Start	3/2/2024	2/1/2024	Complete
	Committed	$ 66,282.67	$ -	$ 66,282.67	Design Completion	12/31/2025		
	Forecast at Completion	$ 66,282.67	$ 1,618,100.00	$ 1,684,382.67	Notice to Proceed	6/30/2026		
	To Date	$ 30,406.00		$ 30,406.00	Construction Completion	12/31/2027		
	This Report	$ 19,965.00	$ -	$ 19,965.00				
SPP 336 A/B (SPP165A, SPP165B, SPP336A, SPP 336B) (4.2 MG) (M) Replaced by CSO053_1.4 3.26 MG Sidney OLS	Original Estimate	$ 2,772,000.00	$ 24,948,000.00	$ 27,720,000.00	Design Start	3/2/2024	2/1/2024	Complete
	Committed	$ -	$ -	$ -	Design Completion	6/30/2027		
	Forecast at Completion	$ 3,500,000.00	$ 39,930,000.00	$ 43,430,000.00	Notice to Proceed	12/31/2027		
	To Date	$ 320,185.00	$ -	$ 320,185.00	Construction Completion	12/31/2032		
	This Report	$ 160,097.00	$ -	$ 160,097.00				

Project Name and Tag	Costs	Design	Construction + CA/CI	Total	Project Milestone	Proposed Deadline	Actual Completion	Milestone Status
CSO053_13 SPP165B Modification	Estimated	$ 6,000.00	$ 54,000.00	$ 60,000.00	Design Start	3/2/2024	2/1/2024	Complete
	Committed	$ -	$ -	$ -	Design Completion			Refer to Section 4.19
	To Date	$ 64,698.11		$ 64,698.11	Notice to Proceed	N/A	N/A	
	This Report	$ -	$ -	$ -	Construction Completion	N/A	N/A	
CSO053_14 SPP175 Modification	Original Estimate	$ 6,000.00	$ 54,000.00	$ 60,000.00	Design Start	3/2/2024	2/1/2024	Complete
	Committed	$ 66,282.67	$ -	$ 66,282.67	Design Completion	12/31/2025		
	Forecast at Completion	$ 66,282.67	$ 1,618,100.00	$ 1,684,382.67	Notice to Proceed	6/30/2026		
	To Date	$ 40,119.00		$ 40,119.00	Construction Completion	12/31/2027		
	This Report	$ 29,678.00	$ -	$ 29,678.00				
CSO053_5.2 Edison Martha OLS	Original Estimate	$ 3,724,000.00	$ 33,516,000.00	$ 37,240,000.00	Design Start	3/2/2024	2/1/2024	Complete
	Committed	$ -	$ -	$ -	Design Completion	12/31/2026		
	Forecast at Completion	$ 3,724,000.00	$ 84,500,000.00	$ 88,224,000.00	Notice to Proceed	6/30/2027		
	To Date	$ 445,350.00		$ 445,350.00	Construction Completion	6/30/2033		
	This Report	$ 265,350.00	$ -	$ 265,350.00				
CSO014_1.1 SPP206A&B RTC	Original Estimate	$ 400,000.00	$ 3,600,000.00	$ 4,000,000.00	Design Start	3/3/2025	3/3/2025	Complete
	Committed	$ -	$ -	$ -	Design Completion	3/31/2028		
	Forecast at Completion	$ 400,000.00	$ 6,000,000.00	$ 6,400,000.00	Notice to Proceed	9/30/2028		
	To Date	$ 23,350.00		$ 23,350.00	Construction Completion	12/31/2030		
	This Report	$ 23,350.00	$ -	$ 23,350.00				
System_2 Schiller Park OLS	Estimated	$ 8,596,000.00	$ 77,364,000.00	$ 85,960,000.00	Design Start	3/3/2025	3/3/2025	Complete
	Committed	$ -	$ -	$ -	Design Completion	6/30/2028		
	To Date			$ -	Notice to Proceed	12/31/2028		
	This Report	$ -	$ -	$ -	Construction Completion	12/31/2033		
System_2_3 SPP339 Modification	Original Estimate	$ 6,000.00	$ 54,000.00	$ 60,000.00	Design Start	3/3/2025	3/3/2025	Complete
	Committed	$ 64,698.00	$ -	$ 64,698.00	Design Completion	12/31/2026		
	Forecast at Completion	$ 64,698.00	$ 4,250,000.00	$ 4,314,698.00	Notice to Proceed	6/30/2027		
	To Date	$ 3,188.00		$ 3,188.00	Construction Completion	6/30/2029		
	This Report	$ 3,188.00	$ -	$ 3,188.00				
System_2_4 Schiller Park OLS SPP340 Modification	Original Estimate	$ 6,000.00	$ 54,000.00	$ 60,000.00	Design Start	3/3/2025	3/3/2025	Complete
	Committed	$ 64,698.00	$ -	$ 64,698.00	Design Completion	12/31/2026		
	Forecast at Completion	$ 64,698.00	$ 4,250,000.00	$ 4,314,698.00	Notice to Proceed	6/30/2027		
	To Date	$ 3,188.00		$ 3,188.00	Construction Completion	6/30/2029		
	This Report	$ 3,188.00	$ -	$ 3,188.00				
CSO-014/015 (0.8 MG) (M) Updated to larger tank: CSO014_1.2 5.55 MG Erie Basin Marina OLS	Original Estimate	$ 6,244,000.00	$ 56,196,000.00	$ 62,440,000.00	Design Start	3/3/2025	3/3/2025	Complete
	Committed	$ 78,500.00	$ -	$ 78,500.00	Design Completion	3/31/2028		
	Forecast at Completion	$ 4,389,240.00	$ 89,814,860.00	$ 94,204,100.00	Notice to Proceed	9/30/2028		
	To Date	$ 32,400.00		$ 32,400.00	Construction Completion	12/31/2033		
	This Report	$ 32,400.00	$ -	$ 32,400.00				
CSO-013 (0.3 MG) (M) Replaced with CSO013_1 SPP304 Modification	Original Estimate	$ 6,000.00	$ 54,000.00	$ 60,000.00	Design Start	3/3/2026	3/3/2025	Complete
	Committed	$ 64,698.00	$ -	$ 64,698.00	Design Completion	12/31/2027		
	Forecast at Completion	$ 64,698.00	$ 1,000,000.00	$ 1,064,698.00	Notice to Proceed	6/30/2028		
	To Date	$ 1,483.00		$ 1,483.00	Construction Completion	12/31/2029		
	This Report	$ 1,483.00	$ -	$ 1,483.00				

Project Name and Tag	Costs	Design	Construction + CA/CI	Total	Project Milestone	Proposed Deadline	Actual Completion	Milestone Status
CSO017_8 SPP326 Modification	Original Estimate	$ 6,000.00	$ 54,000.00	$ 60,000.00	Design Start	3/3/2026	3/3/2025	Complete
	Committed	$ 64,698.00	$ -	$ 64,698.00	Design Completion	12/31/2028		
	Forecast at Completion	$ 64,698.00	$ 6,000,000.00	$ 6,064,698.00	Notice to Proceed	6/30/2029		
	To Date	$ 1,483.00		$ 1,483.00	Construction Completion	12/31/2030		
	This Report	$ 1,483.00	$ -	$ 1,483.00				
CSO011_1.2 SPP024 Modification	Estimated	$ 6,000.00	$ 54,000.00	$ 60,000.00	Design Start	3/3/2026		
	Last Report	$ -	$ -	$ -	Design Completion	12/31/2029		
	To Date			$ -	Notice to Proceed	6/30/2030		
	This Report	$ -	$ -	$ -	Construction Completion	12/31/2032		
CSO012_1.2 SPP023 Modification	Estimated	$ 6,000.00	$ 54,000.00	$ 60,000.00	Design Start	3/3/2026		
	Last Report	$ -	$ -	$ -	Design Completion	12/31/2029		
	To Date			$ -	Notice to Proceed	6/30/2030		
	This Report	$ -	$ -	$ -	Construction Completion	12/31/2032		
CSO012_2.1 SPP296 Modification	Estimated	$ 6,000.00	$ 54,000.00	$ 60,000.00	Design Start	3/3/2026		
	Last Report	$ -	$ -	$ -	Design Completion	12/31/2029		
	To Date			$ -	Notice to Proceed	6/30/2030		
	This Report	$ -	$ -	$ -	Construction Completion	12/31/2032		
CSO026_1.3 Collins Park OLS	Estimated	$ 3,010,000.00	$ 27,090,000.00	$ 30,100,000.00	Design Start	3/3/2027		
	Last Report	$ -	$ -	$ -	Design Completion	12/31/2029		
	To Date			$ -	Notice to Proceed	6/30/2030		
	This Report	$ -	$ -	$ -	Construction Completion	12/31/2035		
CSO027_1 SPP 317 Modification	Estimated	$ 6,000.00	$ 54,000.00	$ 60,000.00	Design Start	3/3/2027		
	Last Report	$ -	$ -	$ -	Design Completion	12/31/2028		
	To Date			$ -	Notice to Proceed	6/30/2029		
	This Report	$ -	$ -	$ -	Construction Completion	12/31/2030		
CSO027_2 Babcock PS Weir Modification	Estimated	$ 6,000.00	$ 54,000.00	$ 60,000.00	Design Start	3/3/2027		
	Last Report	$ -	$ -	$ -	Design Completion	6/30/2029		
	To Date			$ -	Notice to Proceed	12/31/2029		
	This Report	$ -	$ -	$ -	Construction Completion	12/31/2031		
CSO-055 (7.5 MG) (M) Updated to larger tank with new location: CSO055_1.5 11.55 MG Military Rd OLS	Estimated	$ 9,688,000.00	$ 87,192,000.00	$ 96,880,000.00	Design Start	9/1/2027		
	Last Report	$ -	$ -	$ -	Design Completion	9/30/2030		
	To Date			$ -	Notice to Proceed	3/31/2031		
	This Report	$ -	$ -	$ -	Construction Completion	12/31/2036		
Northern Relief Sewer/ North Relief - Interceptor (M) New Configuration, tagged as System_1 Northern Relief Tunnel	Estimated	$ 7,281,074.40	$ 65,529,669.60	$ 72,810,744.00	Design Start	9/1/2027		
	Last Report	$ -	$ -	$ -	Design Completion	12/31/2032		
	To Date			$ -	Notice to Proceed	6/30/2033		
	This Report	$ -	$ -	$ -	Construction Completion	12/31/2040		

Project Name and Tag	Costs	Design	Construction + CA/CI	Total	Project Milestone	Proposed Deadline	Actual Completion	Milestone Status
CSO017_9 SPP059 Modification	Estimated	$ 6,000.00	$ 54,000.00	$ 60,000.00	Design Start	3/1/2028		
	Last Report	$ -	$ -	$ -	Design Completion	12/31/2030		
	To Date			$ -	Notice to Proceed	6/30/2031		
	This Report	$ -	$ -	$ -	Construction Completion	6/30/2033		
CSO027_3 SPP097 modification	Estimated	$ 6,000.00	$ 54,000.00	$ 60,000.00	Design Start	3/1/2028		
	Last Report	$ -	$ -	$ -	Design Completion	12/31/2030		
	To Date			$ -	Notice to Proceed	6/30/2031		
	This Report	$ -	$ -	$ -	Construction Completion	6/30/2033		
CSO033_2 Clinton St OLS	Estimated	$ 16,380,000.00	$ 147,420,000.00	$ 163,800,000.00	Design Start	3/3/2029		
	Last Report	$ -	$ -	$ -	Design Completion	12/31/2031		
	To Date			$ -	Notice to Proceed	6/30/2032		
	This Report	$ -	$ -	$ -	Construction Completion	12/31/2036		
CSO033_3 SPP104 Modification	Estimated	$ 6,000.00	$ 54,000.00	$ 60,000.00	Design Start	3/3/2029		
	Last Report	$ -	$ -	$ -	Design Completion	12/31/2030		
	To Date			$ -	Notice to Proceed	6/30/2031		
	This Report	$ -	$ -	$ -	Construction Completion	12/31/2032		
CSO017_10 SPP051 Modification	Estimated	$ 6,000.00	$ 54,000.00	$ 60,000.00	Design Start	3/3/2029		
	Last Report	$ -	$ -	$ -	Design Completion	12/31/2030		
	To Date			$ -	Notice to Proceed	6/30/2031		
	This Report	$ -	$ -	$ -	Construction Completion	12/31/2032		
CSO-064 (0.1 MG) (M) Replaced with CSO064_1.1 CSO-064 ILS	Original Estimate	$ 400,000.00	$ 3,600,000.00	$ 4,000,000.00	Design Start	3/3/2025	3/3/2025	Complete
	Forecast at Completion	$ 400,000.00	$ 4,000,000.00	$ 4,400,000.00	Design Completion	6/30/2028		
	Last Report	$ -	$ -	$ -	Notice to Proceed	12/31/2028		
	To Date	$ 1,335.00		$ 1,335.00	Construction Completion	6/30/2031		
	This Report	$ 1,335.00	$ -	$ 1,335.00				
CSO006_3 Delavan Drain Weir Raising & RTC	Original Estimate	$ 400,000.00	$ 3,600,000.00	$ 4,000,000.00	Design Start	3/3/2030		
	Last Report	$ -	$ -	$ -	Design Completion	12/31/2032		
	To Date			$ -	Notice to Proceed	6/30/2033		
	This Report	$ -	$ -	$ -	Construction Completion	12/31/2036		
CSO064_1.2 SPP 137 Modification	Original Estimate	$ 6,000.00	$ 54,000.00	$ 60,000.00	Design Start	3/3/2025	3/3/2025	Complete
	Forecast at Completion	$ 60,000.00	$ 1,000,000.00	$ 1,060,000.00	Design Completion	6/30/2028		
	Last Report	$ -	$ -	$ -	Notice to Proceed	12/31/2028		
	To Date	$ 1,335.00		$ 1,335.00	Construction Completion	6/30/2031		
	This Report	$ 1,335.00	$ -	$ 1,335.00				
CSO-028/044/047 (2.3 MG) (M) Updated to smaller tank: CSO028_1 0.95 MG Hopkins & Osage OLS	Estimated	$ 1,764,000.00	$ 15,876,000.00	$ 17,640,000.00	Design Start	3/3/2031		
	Last Report	$ -	$ -	$ -	Design Completion	12/31/2033		
	To Date			$ -	Notice to Proceed	6/30/2034		
	This Report	$ -	$ -	$ -	Construction Completion	9/30/2039		
CSO017_6 Bass Alley OLS	Estimated	$ 3,262,000.00	$ 29,358,000.00	$ 32,620,000.00	Design Start	3/3/2031		
	Last Report	$ -	$ -	$ -	Design Completion	12/31/2033		
	To Date			$ -	Notice to Proceed	6/30/2034		
	This Report	$ -	$ -	$ -	Construction Completion	9/30/2039		

Project Name and Tag	Costs	Design	Construction + CA/CI	Total	Project Milestone	Proposed Deadline	Actual Completion	Milestone Status
CSO033_1 Bailey & Regent OLS (Moreland Park)	Estimated	$ 5,362,000.00	$ 48,258,000.00	$ 53,620,000.00	Design Start	3/2/2032		
	Last Report	$ -	$ -	$ -	Design Completion	12/31/2034		
	To Date			$ -	Notice to Proceed	6/30/2035		
	This Report	$ -	$ -	$ -	Construction Completion	9/30/2040		
CSO064_2 Perry Street Sanitary Sewer	Estimated	$ 480,000.00	$ 4,320,000.00	$ 4,800,000.00	Design Start	3/3/2033		
	Last Report	$ -	$ -	$ -	Design Completion	12/31/2035		
	To Date			$ -	Notice to Proceed	6/30/2036		
	This Report	$ -	$ -	$ -	Construction Completion	12/31/2038		
CSO017_1.1 SPP054 Sewer Separation	Estimated	$ 70,000.00	$ 630,000.00	$ 700,000.00	Design Start	3/3/2033		
	Last Report	$ -	$ -	$ -	Design Completion	12/31/2035		
	To Date			$ -	Notice to Proceed	6/30/2036		
	This Report	$ -	$ -	$ -	Construction Completion	12/31/2038		
Hertel North East ILS (M) Updated design (CSO055_1.1)	Estimated	$ 400,000.00	$ 3,600,000.00	$ 4,000,000.00	Design Start	3/3/2034		
	Last Report	$ -	$ -	$ -	Design Completion	12/31/2036		
	To Date			$ -	Notice to Proceed	6/30/2037		
	This Report	$ -	$ -	$ -	Construction Completion	12/31/2040		

Project Name and Tag	Costs	Design	Construction + CA/CI	Total	Project Milestone	Proposed Deadline	Actual Completion	Milestone Status
Green Infrastructure Projects								
Waterbody and GI Projects Included	**Costs**	**Design**	**Construct**	**Total**	**Project Milestone**	**Proposed Deadline**	**Actual Compeltion**	**Milestone Status**
CSO053_9 (16.7 acres managed) Scajaquada Creek	Estimated	$ 334,400.00	$ 3,009,600.00	$ 3,344,000.00	Start Date	3/2/2028		
	Last Report	$ -	$ -	$ -	20% Completion	3/1/2029		
	To Date			$ -	40% Completion	3/1/2030		
	This Report	$ -	$ -	$ -	60% Completion	3/1/2031		
					80% Completion	3/1/2033		
					100% Completion	3/1/2034		
CSO006_5 (52.5 acres managed) Black Rock Canal	Estimated	$ 1,050,600.00	$ 9,455,400.00	$ 10,506,000.00	Start Date	3/3/2031		
	Last Report	$ -	$ -	$ -	20% Completion	3/1/2032		
	To Date			$ -	40% Completion	3/1/2033		
	This Report	$ -	$ -	$ -	60% Completion	3/1/2034		
					80% Completion	3/1/2036		
					100% Completion	3/1/2037		
CSO011_1.1 (19.9 acres managed) Niagara River	Estimated	$ 398,200.00	$ 3,583,800.00	$ 3,982,000.00	Start Date	3/2/2032		
	Last Report	$ -	$ -	$ -	20% Completion	3/1/2034		
	To Date			$ -	40% Completion	3/1/2036		
	This Report	$ -	$ -	$ -	60% Completion	3/1/2037		
					80% Completion	3/1/2039		
					100% Completion	3/1/2040		
CSO055_3 (260.2 acres managed) Niagara River	Estimated	$ 5,203,200.00	$ 46,828,800.00	$ 52,032,000.00	Start Date	3/2/2032		
	Last Report	$ -	$ -	$ -	20% Completion	3/1/2034		
	To Date			$ -	40% Completion	3/1/2036		
	This Report	$ -	$ -	$ -	60% Completion	3/1/2037		
					80% Completion	3/1/2039		
					100% Completion	3/1/2040		
CSO017_4 (37.5 acres managed) Buffalo River	Estimated	$ 749,000.00	$ 6,741,000.00	$ 7,490,000.00	Start Date	3/3/2032		
	Last Report	$ -	$ -	$ -	20% Completion	3/1/2033		
	To Date			$ -	40% Completion	3/1/2035		
	This Report	$ -	$ -	$ -	60% Completion	3/1/2036		
					80% Completion	3/1/2038		
					100% Completion	3/2/2039		
CSO026_4 (125.5 acres managed) Buffalo River	Estimated	$ 2,510,400.00	$ 22,593,600.00	$ 25,104,000.00	Start Date	3/3/2032		
	Last Report	$ -	$ -	$ -	20% Completion	3/1/2033		
	To Date			$ -	40% Completion	3/1/2035		
	This Report	$ -	$ -	$ -	60% Completion	3/1/2036		
					80% Completion	3/1/2038		
					100% Completion	3/2/2039		

Attachment B to the Semi-Annual Status Report: September 2025

Detailed Project Descriptions for Original & Revised Proposed Work

Project Name	Project Description	Project Purpose*
Proposed Revised LTCP Projects		
NFA Phase I	The first phase of the Treatment Facility upgrades consists of replacement of the diffusers, removal of grit, and replacement and upgrading of piping and valves for the return activated sludge system. This project is currently in construction.	The NFA Phase 1 project is designed to restore the secondary system's capacity and facilitate work specified in NFA Phase 3 while also increasing the aeration efficiency.
NFA Phase II	The second phase of the Treatment Facility upgrades consists of installation of a new chlorine contact tank, dosing system, and pumping station for the primary system together with odor controls and primary sludge pumping station upgrades. This project has been broken into two contracts, Contract A and Contract B. Contract A is currently in construction, and Contract B is currently in final design.	The NFA Phase 2 project is designed to provide reliable disinfection to flows diverted to the primary treatment system during wet weather events.
Jefferson & Florida (SPP 170B) (2.6 MG) (M) Replaced by CSO053_11 1.5 MG Canisius/Jefferson Delevan OLS	There is a new opportunity to move the tank location north and utilize an existing parking garage area at Jefferson and Delavan proposed to be demolished for the construction of a new surface parking lot. In the updated configuration and location, flow at SPP333 is routed to a 1.5 MG offline storage tank with an RTC at SPP229A.	The proposed Canisius/Jefferson Delevan OLS (CSO053_11) is planned to replace the Jefferson Avenue & Florida Street (CSO-053) Satellite Storage. In this Selected Alternative, it is anticipated that the proposed smaller tank together with other LTCP Projects will reduce activations from 37 to 4 for CSO-053 upon completion of the Selected Alternative.
Amherst Quarry OLS (M) Now CSO053_3.2 Bailey & Amherst, Amherst Quarry PS RTC	This RTC project includes adding RTC at SPP255 (Bailey Avenue and East Amherst Street) as well as improving the efficiency of Amherst Quarry dewatering operations to reduce overflows.	The proposed CSO053_3.2 Bailey & Amherst, Amherst Quarry PS RTC would replace the Amherst Quarry OLS. It is anticipated that the proposed project together with other proposed projects will reduce activations from 37 to 4 for CSO-053 upon completion of the Selected Alternative.
Underflow Upsizing (CSO 008/010, 061, 004) (M) Replaced by CSO010_1 Breckenridge Niagara RTC	The proposed design was similar to the Smith St. and Mill Race RTC projects, with a static weir in the 36” diameter pipe upstream of SPP021 diverting flow to a new controlled connection to the North Interceptor. This project also has the potential to reduce overflows at CSO-011 (SPP024) and CSO-055 (SPP001).	Regarding the Selected Alternative model, the proposed Breckenridge Niagara RTC is planned to replace the Underflow Pipe Upsizing project. In this Selected Alternative, it is anticipated that the new project with other LTCP projects will reduce activations from 5 to 2 for CSO 004, from 33 to no activations for CSO 008, and from 14 to no activations for CSO 010 upon completion of the Selected Alternative. In the new model's baseline and Selected Alternative scenarios, CSO-061 is already in compliance.

Project Name	Project Description	Project Purpose*
CSO006_2 Gates Circle RTC	Real-Time Controlled gate structure at SPP 332. Additional instrumentation will also be installed at the Niagara Metering Station (SPP 330) to inform gate control.	Together with other projects, this project is projected to reduce CSO 006 discharges to Scajaquada Creek from 47 to 1 activation.
CSO053_10 SPP229A RTC	SPP229A would be modified by incorporating an additional 24" diameter underflow pipe downstream of a 24" dynamically controlled gate. The gate would open when there is available capacity in the Scajaquada Tunnel or there is a risk for overflow at SPP229A.	Together with other projects, this project is projected to reduce CSO-053 discharges to Scajaquada Creek from 37 to 4 activations
CSO053_12.2 Jefferson Ave GI	Permeable pavement would be installed in the parking lanes along Jefferson Avenue from the intersection with Beverly Road to the intersection with Best Street. This project would manage 7.6 acres of impervious area upstream of SPP229A	Together with other projects, this project is projected to reduce CSO-053 discharges to Scajaquada Creek from 37 to 4 activations.
CSO053_12.1 Jefferson Ave GI	Permeable pavement would be installed in the parking lanes along Jefferson Avenue from the intersection with Main Street to the intersection with Beverly Road. This project would manage 2.3 acres of impervious area upstream of SPP333.	Together with other projects, this project is projected to reduce CSO-053 discharges to Scajaquada Creek from 37 to 4 activations.
CSO053_3.3 Bailey & Minnesota SPP254 Modification	The overflow weir at SPP254 (located at the intersection of Minnesota Avenue and Bailey Avenue) would be replaced. The new weir elevation would be 82.90 ft (City datum), which is slightly lower than the weir elevation in the LTCP model. Lowering the weir results in more flow being routed to the Amherst Quarry PS storage.	Together with other projects, this project is projected to reduce CSO-053 discharges to Scajaquada Creek from 37 to 4 activations.

Project Name	Project Description	Project Purpose*
Colorado ILS (M) Replaced by CSO053_2.5 SPP337 Modification	SPP337 would be modified by incorporating the equivalent of an additional 30" diameter underflow pipe and dropshaft to the Scajaquada Tunnel. The project is currently under final design.	The proposed CSO053_2.5 SPP337 Modification replaces the Colorado ILS project. In the Selected Alternative, it is anticipated that the proposed project together with other LTCP Projects will reduce activations from 37 to 4 for CSO-053 upon completion of the Selected Alternative
South Bailey ILS (M) Replaced with CSO053_3.1 SPP338 Modification	For this project, the SPP338 underflow orifice would be enlarged. The overflow weir would be raised to 54.5 ft (City datum), and the length increased to 19.5'. The design of this project was completed in this reporting period and is in the process of being added as a change order to the Black Rock Canal & Scajaquada Creek Project.	The proposed SPP338 Modification (CSO053_3.1) replaces the South Bailey ILS project. It is anticipated that the proposed project together with other proposed projects will reduce activations from 37 to 4 for CSO-053 upon completion of the Selected Alternative.
SPP 341A Optimization Genesee & Kearns (M) Replaced by CSO053_8 SPP341A Modification	For this project, SPP341A will be modified by incorporating the equivalent of an additional 18" diameter underflow pipe (necessitating the installation of a new drop shaft to the Scajaquada Tunnel) and raising the overflow weir to 55.60 ft (City datum), reducing overflows at CSO-053. This project is currently in final design.	The proposed CSO053_8 SPP341A Modification is planned to replace the SPP 341A Optimization Genesee & Kearns project. It is anticipated that the proposed project together with other proposed projects will reduce activations from 37 to 4 for CSO-053 upon completion of the Selected Alternative.
CSO053_1.5 SPP336B Modification	SPP336B would be modified by removing the underflow orifice plate and raising the weir at this location, reducing overflows at CSO-053. Field investigations have subsequently indicated that the underflow orifice plate has already been removed; however, the weir raising is included as part of project currently under final design.	Together with other projects, this project is projected to reduce CSO 053 discharges to Scajaquada Creek from 37 to 4 activations.
SPP 336 A/B (SPP165A, SPP165B, SPP336A, SPP 336B) (4.2 MG) (M) Replaced by CSO053_1.4 3.26 MG Sidney OLS Replaced by Sidney RTC	After further evaluation, the 3.26 MG satellite storage tank was replaced with a real-time control (RTC) structure at Sidney Street and Humboldt Parkway. The project includes a 48-inch gravity sewer extending to Lark Street and ultimately the Scajaquada Tunnel Interceptor, diverting flows from Humboldt Parkway, Sidney Street, and Lark Street to reduce overflows at SPP336B.	The proposed Sidney RTC (CSO053_1.4) is planned to replace the Sidney Satellite Storage. In this Alternative, it is anticipated that the proposed real time control structure together with other LTCP Projects will reduce activations from 37 to 4 for CSO-053 upon completion of the Selected Alternative.
CSO053_13 SPP165B Modification	SPP165B underflow orifice would be upsized to 24" and underflow pipe to 36". The overflow weir would also be raised to 54.81 ft (City datum). These modifications would reduce overflows at CSO-053. Based on actual conditions observed during site visits, the noted conditions were incorporated into the collection system model. As a result, the SPP was able to achieve compliance. Therefore, this project is considered complete.	Project is considered complete.
CSO053_14 SPP175 Modification	SPP175 at Dodge Street and Michigan Ave would be raised to 56.10 ft (City datum). SPP176 at Michigan Avenue and Riley Street and SPP177 at Michigan Avenue and Glenwood Avenue would be raised to 52.85 ft and 48.35 ft (City datum), respectively. This project is currently in final design.	Together with other projects, this project is projected to reduce CSO-053 discharges to Scajaquada Creek from 37 to 4 activations.

Project Name	Project Description	Project Purpose*
CSO053_5.2 Edison Martha OLS	This project consists of a 2.61 MG tank at the northwest corner of Edison Avenue and Kensington Expressway. The storage would dewater via gravity when there is available capacity in the Edison Avenue trunk sewer. This project is currently under design.	Together with other projects, this project is projected to reduce CSO-053 discharges to Scajaquada Creek from 37 to 4 activations.
NFA Phase III	The NFA Phase III improvements consist of increasing the penetrations to the existing secondary clarifiers, adding two new secondary clarifiers, and adding an additional chlorine contact tank.	These improvements will be designed to provide 400 MGD of secondary treatment during wet weather events and reduce bypasses of the secondary system.
Non-NFA Phase III Improvements	The non-NFA Phase III Improvements are improvements to the secondary system that were not specified in the 2014 LTCP, but will be incorporated into the contracts for the Phase III NFA Improvements.	These improvements will ensure the long-term reliability of those systems installed and upgrades as part of the NFA Phase III.
CSO014_1.1 SPP206A&B RTC	The proposed RTC project adds a 24" dewatering gate and connection to the South Interceptor. The gate would open to send more flow to the South Interceptor when it has available capacity, and close when it is near full capacity. This would further reduce overflows at SPP206A&B and could provide additional benefit downstream at SPP024 (CSO-011). This project is currently in preliminary design.	Together with other projects, this project is projected to reduce CSO-014 discharges to Erie Basin Marina from 12 to 2 activations.
System_2 Schiller Park OLS	This projects consists of an 8.0 MG offline storage project to divert inflows from Cheektowaga to an 8.00 MG storage facility during wet weather until the BSA collection system has capacity to receive and treat it. This project would help buffer peak flows to the Bird Island Treatment Facility and reduce overflows at SPPs along the North and South Interceptor, including SPP001 and SPP024. The OLS is currently configured as gravity-driven storage with dynamically controlled inlet and outlet gates.	Together with other projects, this project is projected to reduce CSO 012 discharges to Black Rock Canal from 35 to 3 activations., CSO-053 discharges to Scajaquada Creek from 37 to 4 activations, and CSO-055 discharges to Niagara River from 38 to 9 activations.
System_2_3 SPP339 Modification	SPP339 would be modified by increasing the diameter of the underflow pipe to 48" (necessitating a new drop shaft to the Scajaquada Tunnel), and by raising the elevation of the overflow weir to 52.71 ft (City datum). These modifications would reduce CSO-053 overflows. This project is currently in preliminary design.	Together with other projects, this project is projected to reduce CSO-053 discharges to Scajaquada Creek from 37 to 4 activations.

Project Name	Project Description	Project Purpose*
System_2_4 Schiller Park OLS SPP340 Modification	SPP340 would be modified by increasing the diameter of the underflow orifice to 24". A flap gate would also be applied to prevent backflow from the Scajaquada Drain. This modification would reduce CSO-053 overflows. This project is currently in preliminary design.	Together with other projects, this project is projected to reduce CSO 053 discharges to Scajaquada Creekfrom 37 to 4 activations.
CSO-014/015 (0.8 MG) (M) Updated to larger tank: CSO014_1.2 5.55 MG Erie Basin Marina OLS	The OLS would consist of a 5.55 MG tank north of the intersection of Trenton Road and Fourth Street. The storage would dewater when there is available capacity in the Swan trunk sewer. The Proposed OLS configuration requires a pump station for dewatering. This project is currently in preliminary design.	The proposed Erie Basin Marina OLS (CSO014_1.2) is planned to replace the CSO-014/015 Satellite Storage. In this Selected Alternative, it is anticipated that the new project together with other LTCP projects will reduce activations from 12 to 2 for CSO-014. In the newmodel's baseline and the Selected Alternative scenarios, there were no activations observed at CSO-015.
CSO-013 (0.3 MG) (M) Replaced with CSO013_1 SPP304 Modification	For this SPP modification project, SPP304 (CSO-013, Virginia St. & Busti Ave.) would be modified by removing the underflow orifice plate. The removal of an existing underflow orifice plate in combination with upstream proposed off-line storage projects are expected to achieve compliance under the revised model. This project is currently in preliminary design.	The proposed SPP304 Modification (CSO013_1) is planned to replace the CSO-013 Satellite Storage. In this Selected Alternative, it is anticipated that the target of 4 CSO activations at CSO-013 in the Black Rock Canal will be sustained from the initial baseline conditions to the implementation of the Selected Alternative.
CSO017_8 SPP326 Modification	This project consists of upsizing SPP 326 underflow pipe to 36" to utilize capacity created by CSO014_1.2 Erie Basin Marina OLS. This project is currently in preliminary design.	Together with other projects, this project is projected to reduce CSO-017 discharges to Buffalo River from 24 to 4 activations.
CSO011_1.2 SPP024 Modification	SPP024 (CSO-011) would be modified by enlarging the underflow opening to 4.8 ft, which would send more flow to South Interceptor and reduce overflows at CSO-011.	Together with other projects, this project is projected to reduce CSO-011 discharges to Niagara River from 39 to 4 activations.

Project Name	Project Description	Project Purpose*
CSO012_1.2 SPP023 Modification	This project consists of enlarging SPP 023 underflow opening to 5 ft by 5 ft and by raise the overflow weir to 1.55'(City Datum).	Together with other projects, this project is projected to reduce CSO-012 discharges to Black Rock Canal from 35 to 3 activations.
CSO012_2.1 SPP296 Modification	This project consists of enlarging SPP 296 underflow opening to 5 ft by 5 ft and by raise the overflow weir to 1.55' (City Datum).	Together with other projects, this project is projected to reduce CSO-012 discharges to Black Rock Canal from 35 to 3 activations.
CSO026_1.3 Collins Park OLS	The proposed Collins Park OLS project would consist of a 2.56 MG tank at the Collins Park Field between Smith Street and Clifford Street that would serve as an extension of the Smith Street ILS storage. The storage would dewater via gravity when there is available capacity in the downstream sewer and no risk of overflow at the Smith Street ILS facility.	Together with other projects, this project is projected to reduce CSO-026 discharges to Buffalo River from 9 to 6 activations.
CSO027_1 SPP 317 Modification	SPP317 overflow weir would be lowered to 7.25 ft (City datum). Lowering the weir would result in increased flows being directed to the Smith Street ILS facility, while lowering the flows in the Swan Trunk. The lowered flows in the Swan Trunk results in a reductionin overflows at CSO 027.	Together with other projects, this project is projected to reduce CSO-027 discharges to Buffalo River from 10 to 4 activations.
CSO027_2 Babcock PS Weir Modification	Babcock Pump Station operates as an RTC facility to store flows in an upstream 11 ft by 11 ft box culvert during wet weather. The CSO027_2 modification project redirects flow from a 48" sewer to the box culvert instead of the sewer downstream of the pump station.This increases the in-line storage utilization and reduces the flow sent to the Swan Trunk in wet weather.	Together with other projects, this project is projected to reduce CSO-027 discharges to Buffalo River from 10 to 4 activations.
CSO-055 (7.5 MG) (M) Updated to larger tank with new location: CSO055_1.5 11.55 MG Military Rd OLS	The proposed Military Road OLS project is a 11.55 MG tank that stores flow diverted from the Hertel Avenue South barrel at the intersection of Hertel Avenue and Military Road.	The proposed Military Rd OLS (CSO055_1.5) is planned to replace the CSO-055 Satellite Storage. In this Selected Alternative, it is anticipated that the proposed larger tank together with other LTCP Projects will reduce activations from 38 to 9 for CSO-055 upon completion of the Selected Alternative.
Northern Relief Sewer/ North Relief - Interceptor (M) New Configuration, tagged as System_1 Northern Relief Tunnel	This tunnel system is anticipated to have three parts, North of Scajaquada Creek, South of Scajaquada Creek, and the Southern Relief Tunnel. The Northern Relief Tunnel is designed to create more conveyance capacity to the WWTP, supplement capacity in the North and South Interceptors, and increase the ability of the system to store wet-weather flows. It is anticipated that the tunnel will have an inside diameter of 12-feet based on the most recent system simulations.	In the Selected Alternative, it is anticipated that the proposed tunnel together with other projects will reduce activations from 35 to 3 for CSO-012.
CSO017_9 SPP059 Modification	This project consists of upsizing the underflow pipe to 24" and raising the overflow weir to 3.25' (City Datum).	Together with other projects, this project is projected to reduce CSO-017 discharges to Buffalo River from 24 to 4 activations.

Project Name	Project Description	Project Purpose*
CSO027_3 SPP097 modification	The SPP097 underflow pipe would be upsized to 48 inches. The overflow weir would be raised to 0.82 ft (City datum) with an associated length increase to 100 ft.	Together with other projects, this project is projected to reduce CSO-027 discharges to Buffalo River from 10 to 4 activations.
CSO033_2 Clinton St OLS	The Clinton St. OLS project includes adding a new 60" diameter sewer that starts on Clinton Street near Kelburn Street and routes wet weather flow through Houghton Park to a 21.72 MG storage tank. An orifice plate and weir would be added at the intersection of Bailey Avenue and Clinton Street to route more flow to the tank via Clinton Street. An automatically controlled gate at the downstream end of the tank would close to store flow when SPP104 (CSO-033) is at risk for overflow and would open to prevent basement backups upstream.	Together with other projects, this project is projected to reduce CSO-033 discharges to Buffalo River from 15 to 2 activations.
CSO033_3 SPP104 Modification	The SPP104 overflow weir would be raised to 6.85 ft (City datum), and the length increased to 40'. These modifications would reduce overflows at CSO-017.	Together with other projects, this project is projected to reduce CSO-033 discharges to Buffalo River from 15 to 2 activations.
CSO017_10 SPP051 Modification	This project consists of removing the orifice plate and raising the overflow weir to -1.35 ft (City Datum).	Together with other projects, this project is projected to reduce CSO-017 discharges to Buffalo River from 24 to 4 activations.
CSO-064 (0.1 MG) (M) Replaced with CSO064_1.1 CSO-064 ILS	The existing 24" sewer upstream of SPP137 between South Street and Republic Street along Louisiana Street would be replaced by two 60" diameter sewers. These sewers would provide inline storage volume to help reduce overflows at SPP137. This project is currently in preliminary design and is being advanced ahead of schedule to allow more time for evaluating the feasibility of the SPP 023/024/296 Projects.	The proposed CSO-064 ILS (CSO064_1.1) is planned to replace CSO-064 Satellite Storage. It is anticipated that the proposed project together with other proposed projects will reduce activations from 10 to 4 for CSO-064upon completion of the Selected Alternative.

Project Name	Project Description	Project Purpose*
CSO006_3 Delavan Drain Weir Raising & RTC	This project consists of replacing existing permanently closed sluice gate with dynamically real-time controlled interconnection between the Delavan Drain and North Interceptor and modification (raising of weir)of SPP 170A to divert flows from Scajaquada Creek to the Delavan Drain during only the most extreme storm events for flood prevention purposes.	Together with other projects, this project is projected to reduce CSO 006 discharges to Scajaquada Creek from 47 to 1 activation.
CSO064_1.2 SPP 137 Modification	The SPP137 overflow weir would be raised to 0.50 ft (City datum). In addition, the underflow orifice plate would be removed. These modifications would reduce overflows at CSO-064 and would be implemented in conjunction with the CSO-064 ILS (CSO064_1.1) project. This project is currently in preliminary design and is being advanced ahead of schedule to allow more time for evaluating the feasibility of the SPP 023/024/296 Projects.	Together with other projects, this project is projected to reduce CSO-064 discharges to Buffalo River from 10 to 4 activations.
CSO-028/044/047 (2.3 MG) (M) Updated to smaller tank: CSO028_1 0.95 MG Hopkins & Osage OLS	To address CSO-028 overflows, the Hopkins and Osage OLS would store flow from the Hopkins Street sewer in a 0.95 MG tank at the eastern end of Osage Street. The storage would dewater when there is available capacity in the South Park Avenue sewer and no risk of overflow at the downstream SPPs 125 and 126.	The proposed Hopkins & Osage OLS (CSO028_1) is planned to replace the CSOs 028/044/047 Satellite Storage. In this Selected Alternative, it is anticipated that the smaller proposed tank, together with other LTCP Projects, will reduce activations from 33 to 4 for CSO-028. Both CSO-044 and CSO-047 are in compliance in the new model's baseline and the Selected Alternative scenarios.
CSO017_6 Bass Alley OLS	To address CSO-017 overflows, the Bass Alley OLS would store flow from the Swan Trunk in a 3.60 MG tank in open areas near Seymour St. and Bass Alley. The storage would dewater when there is available capacity in the Swan Trunk. The current configuration of the OLS requires a pump station for dewatering.	Together with other projects, this project is projected to reduce CSO-017 discharges to Buffalo River from 24 to 4 activations.

Project Name	Project Description	Project Purpose*
CSO033_1 Bailey & Regent OLS (Moreland Park)	This project consists of a 4.50 MG tank at Moreland Field between Regent Street and Moreland Street along Bailey Avenue. The storage would dewater when there is available capacity in the downstream sewer and no risk of overflow at the downstream SPP 104. The Proposed OLS configuration requires a pump station for dewatering.	Together with other projects, this project is projected to reduce CSO-033 discharges to Buffalo River from 15 to 2 activations.
CSO064_2 Perry Street Sanitary Sewer	This project would replace an existing sewer partially built into Hamburg Drain. The new sewer would start on Scott St near Illinois St to Louisiana St, then continue along Perry St to the Hamburg St. Pump Station. The total length of new sewer would be 6,417 ft, with the largest pipe diameter being 42”.	Together with other projects, this project is projected to reduce CSO-064 discharges to Buffalo River from 10 to 4 activations.
CSO017_1.1 SPP054 Sewer Separation	This project consists of converting the sewer upstream of SPP054 to a separate storm sewer. This would eliminate SPP054 as an SPP.	Together with other projects, this project is projected to reduce CSO-017 discharges to Buffalo River from 24 to 4 activations.
Hertel North East ILS (M) Updated design (CSO055_1.1)	The Hertel North East / Hertel Delaware ILS (CSO055_1.1) is designed to take advantage of additional storage capacity available on Hertel Avenue North barrel upstream of the existing Hertel at Deer RTC structure. Since there is a short travel time between the two locations, the preliminary control strategy would start storage when the depth upstream of the Hertel North East / Hertel Delaware ILS (CSO055_1.1) structure indicates wet weather. This project will work in conjunction with the CSO-055/ Military Road OLS project.	The proposed updated design of the Hertel North East / Hertel Delaware ILS (CSO055_1.1) together with other LTCP Projects will reduce activations from 38 to 9 for CSO-055 upon completion of the Selected Alternative.

Project Name	Project Description	Project Purpose*
Proposed Revised Green Infrastructure Projects		
CSO053_9 (16.7 acres managed)	The CSO-053 basin would have green infrastructure managing 16.7 acres of impervious area. The exact list of projects to be implemented would be determined during the design phase.	Together with other projects, this project is projected to reduce CSO-053 discharges to Scajaquada Creek from 37 to 4 activations.
CSO006_5 (52.5 acres managed)	Green infrastructure projects would be constructed within the basin sufficient to control runoff from 20% of the impervious area within the basin (52.5 acres managed). The exact list of projects to be implemented would be determined during the design phase.	Together with other projects, this project is projected to reduce CSO-006 discharges to Scajaquada Creek from 47 to 1 activations.
CSO011_1.1 (19.9 acres managed)	Green infrastructure projects would be constructed within the basin sufficient to control runoff from 20% of the impervious area within the basin (19.9 acres managed). The exact list of projects to be implemented would be determined during the design phase.	Together with other projects, this project is projected to reduce CSO-011 discharges to Niagara River from 39 to 4 activations.
CSO055_3 (260.2 acres managed)	The CSO-055 basin would have green infrastructure managing 260.2 acres of impervious area. The exact list of projects to be implemented would be determined during the design phase.	Together with other projects, this project is projected to reduce CSO-055 discharges to Niagara River from 38 to 9 activations.
CSO017_4 (37.5 acres managed)	The CSO-017 basin would have green infrastructure managing 37.5 acres of impervious area. The exact list of projects to be implemented would be determined during the design phase.	Together with other projects, this project is projected to reduce CSO-017 discharges to Buffalo River from 24 to 4 activations.
CSO026_4 (125.5 acres managed)	The CSO-026 basin would have green infrastructure managing 125.5 acres of impervious area. The exact list of projects to be implemented would be determined during the design phase.	Together with other projects, this project is projected to reduce CSO-026 discharges to Buffalo River from 9 to 6 activations.

Attachment C to the Semi-Annual Status Report: September 2025

Public Outreach Materials

BUFFALO SEWER AUTHORITY
QUEEN CITY CLEAN WATERS

Program Community Engagement

CITY-WIDE EVENTS

Jan 1, 2025 - June 30, 2025

Event Date(s)	Event Name	Location	BSA Representation	PMT Representation	Attended
Wednesday Mornings	Buffalo Clean Sweeps	City-Wide	Perry Pope	Cambridge Boyd	YES
2/6/2025	NFTA BRT Outreach Event	Riverside HS	Suto: D Johnson: Steinwald		YES
2/8/2025	University District Breakfast	North Park Academy	Pope: Geter: Brown: Riley	Nadia Mugisha, Art Hall, Jaia Ruffin, Katie Segarra, Cambridge Boyd	YES
2/8/2025	NFTA BRT Outreach Event	Harvey Austin School	Black: J Harris: Steinwald		YES
3/8/2025	Saturday Academy Highgate Heights	JFK	Kaitlin Walsh Trassera Adams		YES
3/15/2025	Saturday Acedemy ps 43-Lovejoy	Science Magnet School	Edwin Geter Jaleel Harris		YES
3/15/2025	Saturday Academy Riverside HS	School 99	Perry Pope Kaitlin Walsh		YES
3/22/2025	Saturday Academy PS 50	Lafayette High School	Alex Emmerson, Scott Steinwald		YES
3/22/2025	Saturday Academy PS 97	West Hertel Academy	Jaleel Harris, Rosaleen Nogle		YES
4/3/2025	Envision Ellicott	Herman Badillo	Rosaleen Nogle	Nadia Mugisha	YES
4/5/2025	Saturday Academy	Martha Mitchell Center	Justin Black, Beth Scheeler		YES
4/5/2025	Saturday Academy	Dash Market	E. Geter, J. Harris		YES
4/5/2025	Saturday Academy	Bailey & Delavan	K. Suto, T. Adams		YES
April 8th, 2025	Northland Taxpayers Association Meeting	rthland Workforce Training Cer	Charles Riley	Walt Walker, Nadia Mugisha, Art Hall, Katie Segarra, Cambridge Boyd	YES
April 15th, 2025	University District Block Cub Coalition	Martha Mitchell Center		Art Hall, Katie Segarra, Cambridge Boyd	YES
5/3/2025	Saturday Academy	Belle Center	K. Suto, T. Adams		YES
5/31/2025	Saturday Academy	Bickford	K.Suto J. Harris		YES
May 31st, 2025	Buffalo Niagara Waterkeeper Weekend	Canalside Buffalo	Rosaleen Nogle		YES
6/3/2025	OSP Envision	MLK Park	Nadia Mugisha		YES
June 6th & 7th, 2025	Pride Parade of Buffalo	Delaware Avenue	Rosaleen Nogle & BSA Staff		YES
6/11/2025	NFTA BRT Outreach Event	Buffalo Salvation Army	Pope, Brown, Geter & Black		YES
June 12th, 2025	Bickford, Edith, Alice Blockclub	Bickford	Regina Harris	Katie Segarra	YES
June 14th, 2025	50th Anniversary of Juneteenth Parade of Buffalo	Genesee & Ferry Sts.	Rosaleen Nogle	Aria Harris, Brittany Fletcher, Cambridge Boyd, Katie Segarra, Nadia Mugisha	YES
6/17/2025	Envision Allentown	Salvation Army	T. Adams D. johnson		YES
6/25/2025	OSP Envision North Park	School 81	Jaleel Harris, Justin Black		YES
6/29/2025	South Buffalo Farmers Market	Cazenovia Park Casino	Pope & Geter		YES

BSA Workforce Opportunities Media Coverage					
Date	Source	Outlet	TV Market	Title	Local Viewership
4/23/2025 17:32	Media	WGRZ-BUF (NBC)	Buffalo NY	Channel 2 News at 5:30	29790
4/24/2025 6:27	Media	WGRZ-BUF (NBC)	Buffalo NY	Daybreak	30384
4/24/2025 23:07	Media	WGRZ-BUF (NBC)	Buffalo NY	Channel 2 News	28481
4/28/2025 22:10	Media	CW 23	Buffalo NY	News 4 at 10:00 pm	22401
4/28/2025 22:14	Media	CW 23	Buffalo NY	News 4 at 10:00 pm	22401
BSA PPP Meetings Media Coverage					
Date	Source	Outlet	TV Market	Title	Local Viewership
4/29/2025 4:43	Media	WIVB-BUF (CBS)	Buffalo NY	Wake Up 4:30am	10037
4/29/2025 4:43	Media	CW 23	Buffalo NY	Wake Up 4:30am	618
4/29/2025 4:51	Media	WIVB-BUF (CBS)	Buffalo NY	Wake Up 4:30am	12767
4/29/2025 4:51	Media	CW 23	Buffalo NY	Wake Up 4:30am	640
4/29/2025 5:14	Media	WIVB-BUF (CBS)	Buffalo NY	Wake Up 5am	7301
4/29/2025 5:14	Media	CW 23	Buffalo NY	Wake Up 5am	993
4/29/2025 7:15	Media	CW 23	Buffalo NY	Wake Up-7AM	26433
4/29/2025 7:18	Media	CW 23	Buffalo NY	Wake Up-7AM	26433

EAST DELAVAN SEWER PROJECT

January 1 - June 30, 2025 Engagement Calendar
Last Updated: August 29, 2025

Organization(s)	Event/Activity	Month	Month/Date	Time	Location
Buffalo Sewer Authority/Clementine Gold Group	**East Delavan Advisory Committee Meeting: Kick Off**	01/2025	1/09	5:30 - 8:00 PM	The Exchange at Beverly Gray 334 E. Utica St.
Community Services For Every1/Clementine Gold Group	**Stakeholder Meeting with President and CEO Mindy Cervoni**	01/2025	1/09	9:00 - 9:30 AM	180 Oak St
Buffalo Sewer Authority/Clementine Gold Group	**Hand Delivery of Door Hanger Bags: Tree Survey Postcards & Tree Removal/Planting Notice**	01/2025	1/31	N/A	11 Homes on Florida St
Buffalo Sewer Authority/Clementine Gold Group	**East Delavan Advisory Committee Meeting**	02/2025	2/13	5:30 - 8:00 PM	The Exchange at Beverly Gray 334 E. Utica St.
Buffalo Sewer Authority/Kandy/Clementine Gold Group	**Lead Service Line Inspections**	03/2025	3/12	8:00 - 10:00 AM	Florida St
Buffalo Sewer Authority/Clementine Gold Group	**East Delavan Advisory Committee Meeting**	03/2025	3/13	5:30 - 8:00 PM	The Exchange at Beverly Gray 334 E. Utica St.
Buffalo Sewer Authority/Clementine Gold Group	**East Side Parkway Coalition: Community Conversations**	03/2025	3/15	9:30 - 11:45 AM	877 E Delavan Ave
Buffalo Sewer Authority/Clementine Gold Group	**Hamlin Park Taxpayer Association Monthly Block Club Meeting**	04/2025	4/03	6:00 - 7:00 PM	School #74 126 Donaldson Rd
Buffalo Sewer Authority/Clementine Gold Group	**East Delavan Advisory Committee Meeting @ BSA 90th Anniversary Press Conference on Florida Street**	04/2025	4/16	10:00 - 11:30 AM	Florida St & Spillman Pl
Buffalo Sewer Authority/Clementine Gold Group	**East Delavan Advisory Committee Meeting**	05/2025	5/15	5:30 - 8:00 PM	The Exchange at Beverly Gray 334 E. Utica St.
Buffalo Sewer Authority/Clementine Gold Group	**Juneteenth Festival**	06/2025	6/14	10:00 AM - 7:00 PM	MLK Park
Buffalo Sewer Authority/Clementine Gold Group	**East Delavan Advisory Committee Meeting**	06/2025	6/23	5:30 - 8:00 PM	The Exchange at Beverly Gray 334 E. Utica St.
Buffalo Sewer Authority/Clementine Gold Group	**Jefferson Avenue Friday Night Live**	06/2025	6/27	5:30 - 9:00 PM	Jefferson & Utica

FOR IMMEDIATE RELEASE
January 28, 2025

Contacts:
Earl Wells, e3comms.
716-553-5225
Philip Wells, e3comms.
716-512-3326

BUFFALO SEWER ISSUES RFPS FOR ENGINEERING AND CONSTRUCTION WORK FOR QUEEN CITY CLEAN WATERS INITIATIVE PROJECTS

BUFFALO, NY— As part of the Queen City Clean Waters Initiative, a $1 billion program to improve local waterways by mitigating combined sewer overflows over the next 15 years, the Buffalo Sewer Authority (Buffalo Sewer) has issued Requests for Proposals (RFPs) for engineering and construction work on two offline storage tanks.

An offline storage (OLS) tank holds extra water when the sewer is full, then drains it to be treated when there's space. Real-time controls (RTC) contain sewer chambers with automatic gates that store and release water to prevent overflows when the treatment plant is ready. RTC technology has been used in projects across the City of Buffalo over the last decade.

“These projects are critically important in our efforts to reduce combined sewer overflows through maximizing storage within the existing collection system and strategically increasing storage where needed to regulate flows to the Bird Island wastewater plant,” said Rosaleen Nogle, PE, BCEE, BC WRE
Principal Sanitary Engineer, Buffalo Sewer.

The Edison-Martha Offline OLS tank project will be located at the intersection of Edison Avenue and Martha Avenue in proximity to Roosevelt Park and the Sidney-Lark tank project will be located near the intersection of Sidney Street and Lark Street.

The Edison-Martha OLS project will include an underground, offline concrete tank capable of storing up to 2.61 million gallons of combined sewage flow to reduce overflows to the buried section of Scajaquada Creek.

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“Our community and public engagement team will work with the selected firm to make the communities where these projects are taking place aware of this work well in advance of construction and work with the neighborhood to reduce any negative impacts while also helping to build positive long-term benefits ,” Nogle continued.

Smaller businesses and those that have had less experience with similar projects are encouraged to partner with others; funding through state and/or federal grants or loans may entail specific goals and compliance requirements.

All questions, requests for clarification or additional information must be sent by email to Ms. Nogle at rnogle@buffalosewer.org and must be received no later than Tuesday, February 18, 2025 at 3:00 pm EST. Consultants shall not communicate with Buffalo Sewer designee via any other method or outside of the time period set forth herein in regard to this RFP.

Sealed proposal submissions must be received by Buffalo Sewer no later than Tuesday, March 4, 2025, at 10:00 AM ET.

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About the Buffalo Sewer Authority: Buffalo Sewer is a New York State public benefit corporation created in 1935 to “relieve the Niagara River, Buffalo River, and Lake Erie from pollution by the sewage and waste of the city and relieving city from inadequate sanitary and stormwater drainage and for the sanitary disposal or treatment of the sewage thereof.” Buffalo Sewer may accept, treat and dispose of the sewage and waste of all municipal corporations in Erie County.

About the Queen City Clean Waters initiative: To safeguard public health and the environment while fostering strong community partnerships, creating meaningful workforce opportunities, and driving lasting economic impact for future generations in Buffalo.

FOR IMMEDIATE RELEASE
January XX, 2025

Contacts:
Earl Wells, e3comms.
716-553-5225
Philip Wells, e3comms.
716-512-3326

BUFFALO SEWER AUTHORITY ANNOUNCES QUEEN CITY CLEAN WATERS STAKEHOLDER ADVISORY COMMITTEE

Committee will collaborate with Buffalo Sewer to maximize socioeconomic benefits of $1 billion initiative to reduce combined sewer overflows

BUFFALO, NY – The Buffalo Sewer Authority (BSA) has announced the formation of a Stakeholder Advisory Committee (SAC) for the $1 billion Queen City Clean Waters initiative to improve local waterways by mitigating combined sewer overflows. The Committee will collaborate with BSA to ensure that community perspectives, concerns, and insights are aligned with the planning and implementation of over 50+ projects across the City of Buffalo over the next 15 years.

"Community engagement is a critical component of the Queen City Clean Waters initiative, and it is important that we listen to stakeholders so that these projects positively impact City residents," said Rosaleen B. Nogle, PE, BCEE, BC.WRE, Principal Sanitary Engineer, Buffalo Sewer Authority. "The Committee will help create meaningful socioeconomic opportunities that result in long-term environmental and economic benefits for future generations in Buffalo, especially in neighborhoods that have been negatively impacted by combined sewer overflows because of a lack of investment."

The Committee will play a crucial role in providing a platform for residents to voice their concerns and provide feedback and suggestions on the various projects in communities across the city. The Committee will act as a bridge between the BSA and residents, ensuring that the infrastructure investments reflect the needs and priorities of the community.

The Committee will be comprised of a diverse group of representatives from various groups and organizations who represent the neighborhoods and communities where projects are taking place. Currently, the Committee is comprised of representatives from the following organizations:

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- Board of Block Clubs Buffalo & Erie County Inc.
- Buffalo Center for Health Equity
- Buffalo Niagara Waterkeeper
- City of Buffalo Office of Strategic Planning
- Buffalo Urban League
- Jericho Road
- LISC (Local Initiatives Support Corp.) WNY
- Northland Workforce Training Center
- Buffalo NAACP
- PUSH Buffalo

BSA is continuing to contact groups and organizations about joining the Committee. Those interested in serving on the Committee can contact rnogle@buffalosewer.org or call (716) 851-4664 Ext. 4203. It is anticipated that the Committee will meet on a monthly basis and members will receive a nominal per diem of $100 per meeting. Representatives from public entities such as the City of Buffalo or any ex officio members who may be appointed will not be compensated.

Meeting minutes and agendas will be made available on www.buffalosewer.org.

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About the Buffalo Sewer Authority: Buffalo Sewer is a New York State public benefit corporation created in 1935 to "relieve the Niagara River, Buffalo River, and Lake Erie from pollution by the sewage and waste of the city and relieving city from inadequate sanitary and stormwater drainage and for the sanitary disposal or treatment of the sewage thereof." Buffalo Sewer may accept, treat and dispose of the sewage and waste of all municipal corporations in Erie County.

About the Queen City Clean Waters initiative: To safeguard public health and the environment while fostering strong community partnerships, creating meaningful workforce opportunities, and driving lasting economic impact for future generations in Buffalo.

BUFFALO SEWER AUTHORITY

Sidney-Lark and Edison-Martha Offline Storage Tanks

Request for Proposals

ISSUE DATE: Friday, January 31, 2025

PRE-PROPOSAL MEETING: Tuesday, February 11, 2025, at 01:00 PM ET

QUESTIONS DUE: Tuesday, February 18, 2025, at 3:00 PM ET

DUE DATE: Tuesday, March 4, 2025, at 10:00 AM ET

I. INSTRUCTIONS TO CONSULTANTS

A. General Invitation

The BUFFALO SEWER AUTHORITY (hereinafter referred to as "THE AUTHORITY") is a public benefit corporation created, in part, to relieve the Niagara River, Buffalo River and Lake Erie from pollution by the sewage and waste of the City of Buffalo. THE AUTHORITY is responsible for the sanitary wastewater and stormwater collection and treatment system within the City of Buffalo.

THE AUTHORITY provides wastewater service to a population of approximately 450,000. As part of this service, Buffalo Sewer owns and operates the Bird Island Wastewater Treatment Facility (WWTF), along with managing a total of over 900 miles of storm, sanitary, and combined sewer lines.

On March 18, 2014, THE AUTHORITY'S combined Sewer overflow Long Term Control Plan (LTCP), , was approved by the New York State Department of Environmental Conservation (NYSDEC) and the United States Environmental Protection Agency (USEPA). In 2021, after an updated model was approved by USEPA and NYSDEC, it was determined that the projects within the LTCP would not upon completion meet the activation goals as specified in the 2014 LTCP. That is, if all projects in the 2014 LTCP were completed, the level of control required would not be attained for several waterbodies and additional work would still be required. The 2023 updated LTCP Optimization Selected Alternative identified the additional necessary projects.

The purpose of the LTCP, now known as the Queen City Clean Waters (QCCW) Initiative, is to reduce combined sewer overflow (CSO) activation within the existing collection system and to alleviate overall influent flow to the WWTF.

The Sidney-Lark Offline Storage Tank project is located at the intersection of Sidney Street and Lark Street in the City of Buffalo. It is one of a series of coordinated real-time control (RTC) sites that use smart logic to optimize available inline storage and conveyance capacity within the collection system, including overflow lines (referred to as outfall storage) and combined sewers.

The Edison-Martha Offline Storage Tank project is located off the intersection of Edison Avenue and Martha Avenue, within Roosevelt Park in the City of Buffalo. It is one of a series of coordinated real-time control (RTC) sites that use smart logic, to optimize new off-line storage and existing conveyance capacity within the collection system.

THE AUTHORITY is seeking proposals from professional engineering consulting teams (CONSULTANTS) to provide design engineering services, construction contract bid phase services for one or both projects. If the CONSULTANT submits a proposal on both projects, they shall demonstrate adequate staffing resources to complete the work.

Sealed submissions must be received by THE AUTHORITY no later than Tuesday, March 4, 2025, at 10:00 AM ET. LEAD CONSULTANTS shall not submit more than one qualification package. Submissions shall be sealed and clearly labeled on front of package "Sidney Lark and Edison Martha Offline Storage Tanks" and delivered/transmitted to:

Rosaleen Nogle, PE, BCEE, BC WRE
Principal Sanitary Engineer
BUFFALO SEWER AUTHORITY
Room 1038 City Hall
65 Niagara Square
Buffalo, NY 14202

Proposals are solicited in accordance with the terms, conditions and instructions as set forth in this Request for Proposals (RFP). Submission via telephone, facsimile, e-mail or any other method not specifically provided herein is prohibited. Submissions must be completed in accordance with the requirements of the RFP. No amendments or changes to submissions will be accepted after the closing date and time. No submissions shall be accepted after the stated deadline. THE AUTHORITY reserves the right to reject any or all submissions.

Any material misrepresentation made by a CONSULTANT may void their submissions and eliminate the CONSULTANT'S submission from further consideration. Any submission that is based upon violation of federal, state or local law, or deemed by THE AUTHORITY, in its sole discretion, to be non-responsive, will be eliminated from consideration. THE AUTHORITY shall not be responsible for any expenses or charges incurred by any CONSULTANTS in preparing a submittal, or in their providing any additional information considered necessary by THE AUTHORITY in the evaluation of their submission.

B. Consultants Restricted

No submission shall be accepted from, or contract awarded to, any AUTHORITY employee or official, or any firm in which an AUTHORITY employee or official has a direct or indirect financial interest.

THE AUTHORITY recognizes that many not-for-profit organizations have experts in fields pertinent to this project on staff that occasionally perform fee for service work. THE AUTHORITY is pleased to see this expertise brought to projects. However, if an organization is part of the successful consulting team, the organization will be asked to recuse themselves from serving as stakeholders/advocates in the process to avoid any potential conflicts of interest. If an employee or official of the AUTHORITY holds an unpaid position such as, but not limited to, serving on the Board of Directors of a not-for-profit organization which will be proposing on this project, that position must be explicitly disclosed in the proposal. Further, the individual in question will be required to recuse themselves from any role in regard to the project both on behalf of the not-for-profit and on behalf of the AUTHORITY.

C. Proposed Schedule

Listed below are anticipated target dates and relevant times by which actions related to this Request for Proposals will be completed.

Event	Date	Time
RFP Issue	Tuesday, January 28, 2025	N/A
Pre-Proposal Meeting	Tuesday, February 11, 2025	1:00 PM ET
RFP Questions Due	Tuesday, February 18, 2025	3:00 PM ET
RFP Due Date	**Tuesday, March 4, 2025**	**10:00 AM ET**
Interviews with Consultants	Monday, March 24, 2025	N/A
Consultant Award	Wednesday, May 28, 2025	N/A
Notice to Proceed for Design	Monday, July 28, 2025	N/A
Completion of Design	Friday, November 20, 2026	N/A

D. Pre-Proposal Conference Information

When:	Tuesday, February 11, 2025 at 1:00pm EST
Where:	**Microsoft Teams** **Join on your computer, mobile app, or room device** Meeting ID: 242 408 583 98 Passcode: 5Pz3Qt9x **Dial in by phone** +1 646-902-9990,,486398808# United States, New York City (855) 336-8809,,486398808# United States (Toll-free) Phone conference ID: 486 398 808#

E. Request for Proposals Review, Additional Information, and Questions

Each CONSULTANT is responsible for carefully examining this RFP and thoroughly familiarizing themselves with each of THE AUTHORITY'S requirements prior to their submission to ensure that their responses are in compliance with this solicitation.

Each CONSULTANT is responsible for conducting its own investigations and any examinations necessary to ascertain conditions and requirements affecting the requirements of this RFP. Failure to perform such investigations and examinations shall not relieve the CONSULTANT from its obligation to comply, in every detail, with all of the provisions and requirements contained in this RFP.

Pursuant to State Finance Law §§139-j and 139-k, this "Request for Proposals" includes and imposes certain restrictions on communications about this governmental procurement between

THE AUTHORITY and CONSULTANT during the procurement process. A CONSULTANT is restricted from making contact with any AUTHORITY staff, other than the designated contact, about this procurement from the earliest notice of intent to solicit offers or "Requests for Proposals" through final award and approval of Contract by THE AUTHORITY unless it is a contact that is included among certain statutory exceptions set forth in State Finance Law §139-j (3) (a).

Questions regarding the RFP shall be directed to THE AUTHORITY designees only. Any impermissible contact with any other CONSULTANT regarding the RFP during this procurement period shall result in the rejection of any such CONSULTANT proposal. CONSULTANTS shall communicate in writing only via email to the email addresses listed in the Request for Proposals. No other communications with THE AUTHORITY'S designees regarding the RFP are permitted during the procurement period.

For purposes of this solicitation, the designated contact shall be:
Rosaleen B. Nogle, PE, BCEE, BC WRE Principal Sanitary Engineer.

All entities interested in responding to this RFP should confirm their receipt of this RFP and the designated contact person(s) for their organization with Ms. Nogle by email. CONSULTANTS are solely responsible for ensuring that THE AUTHORITY has accurate contact information, including e-mail address(es) for the receipt of such correspondence. THE AUTHORITY does not assume any responsibility for undelivered e-mails or for the receipt of any communication sent to any CONSULTANT.

All questions, requests for clarification or additional information must be sent by email to Ms. Nogle at rnogle@buffalosewer.org and must be received no later than **Tuesday, February 18, 2025 at 3:00 pm EST.** CONSULTANTS shall not communicate with THE AUTHORITYs designee via any other method or outside of the time period set forth herein in regard to this RFP.

No questions will be accepted by phone. No other employees or representatives of THE AUTHORITY are to be contacted regarding this RFP. THE AUTHORITY accepts no responsibility for, and the CONSULTANT agrees not to rely upon, any verbal or written statements or representations from any other person, whether or not employed by THE AUTHORITY.

THE AUTHORITY may, in its sole discretion, also elect to provide both the question(s) and the written answer(s) to all known CONSULTANTS and THE AUTHORITY via e-mail.

F. Addenda and Modifications

THE AUTHORITY reserves the right, in its sole discretion, to amend this RFP at any time prior to the deadline for submission. In the event that it becomes necessary to revise or expand upon any part of this RFP, all addendums, amendments, and interpretations will be made in writing and emailed to all who are known by THE AUTHORITY to have received the Request for Proposals. It is the sole responsibility of the CONSULTANT to ensure that THE AUTHORITY has accurate contact information.

All addendums, amendments, interpretations and/or modifications shall be incorporated as part of this RFP as if they were originally set forth in them. No addenda will be issued later than forty-eight (48) hours prior to the date and time for the receipt of submissions, except an addendum

withdrawing the RFP, or addenda for postponement of the due date and/or time. THE AUTHORITY does not assume any responsibility for the receipt of information sent to any CONSULTANTS. Any information supplied by THE AUTHORITY relative to this RFP must be considered in preparing submissions. All other contacts that a CONSULTANT may have had before or after receipt of this RFP with any individuals, employees, subcontractors, consultants or representatives of THE AUTHORITY and any information that may have been read in any news media or seen or heard in any communication facility regarding this RFP should be disregarded in preparing responses.

G. Contract Packaging and Submission Format

The work is divided into two Contracts, A and B. CONSULTANTS may propose on either Contract A, Contract B, or both (Contract C). A single proposal is required for either option.

- Contract A – Sidney-Lark OLS (two alternative designs)
- Contract B – Edison-Martha OLS
- Contract C – Proposals for both Contracts A and B

Detailed information on both contracts can be found below in Section II.

If the CONSULTANT chooses to propose under Contract C, they shall demonstrate adequate resources and staffing to complete the work herein. The CONSULTANT shall understand the AUTHORITY has the right to award Contract A, Contract B, or both to CONSULTANTS proposing under Contract C.

CONSULTANTS are advised to adhere to the submittal requirements of this RFP. Failure to comply with the instructions of this RFP may cause their submission to be rejected. CONSULTANTS must provide information on the appropriate areas throughout this RFP. Submission in response to this RFP constitutes acceptance of all requirements outlined in this RFP.

One (1) digital submission to OneDrive containing a Portable Document Format (PDF) version of all materials must also be provided. Individual drives will be sent separately once candidates confirm their interest in submitting a proposal. One Drive Folder (requests for folders must be received by Rosaleen Nogle, PE, BCEE, BC WRE by Tuesday, February 18, 2025, at rnogle@buffalosewer.org Each page of the submission must be numbered so it can be uniquely identified. Legibility, clarity and completeness are required.

Item	Quantity	Format
Digital Copy	One (1)	Portable Document Format (PDF) submitted through OneDrive link

The submission must be signed by each individual CONSULTANT or their authorized representative who shall have the legal authority to legally bind the CONSULTANT(s).

II. PROJECT OVERVIEWS

A. General Introduction

THE AUTHORITY invites the CONSULTANT to submit proposals that demonstrate their capability to deliver these essential infrastructure projects on time and within budget. Proposals should include detailed approach, timelines, and cost estimates, as well as evidence of relevant experience and expertise.

General design documents have been prepared to facilitate the RFP for both projects and shall be included herein via appendices as follows:

1. CSO Storage Tank Flushing Design Guide Memo (Appendix A)
2. Program Management Team BIM Plan (Appendix B)
3. Survey files shall be provided upon award

B. Contract A – Overview of Sidney-Lark OLS

The Sidney-Lark project aims to enhance the city's wastewater management infrastructure by constructing a state-of-the-art storage tank, or real time control structure. This project is a critical component of our ongoing efforts to improve water quality, reduce overflow incidents, and ensure compliance with environmental regulations.

The scope of work includes the construction of the storage tank or real time control structure, associated piping, and necessary support structures. Additionally, the project will involve the integration of advanced monitoring and control systems to optimize performance and reliability. Project specific preliminary design documents have been prepared to facilitate the RFP and shall be included herein via appendices as follows:

1. Preliminary Engineering Report – Sidney OLS (Appendix C)
2. Environmental Screening Memo – Sidney OLS (Appendix D)
3. Subsurface Investigation and Geotechnical Evaluation – Sidney OLS (Appendix E)
4. 30% Design Table of Contents and Guide Specifications (Appendix F)
5. 30% Design Drawings – Sidney OLS (Appendix G)
6. 30% Design Considerations and Assumptions – Sidney OLS (Appendix H)

These materials were developed for the purposes of establishing design intent, coordinating with stakeholders and regulators, and for approximating project schedule and cost. The selected consultant shall rely on these materials for the purposes of informing the development of final design documents, management of the work to conform with schedule and budget, and to deliver on intent. Consultant shall develop additional reports and gather additional data as needed to complete final design and accept design responsibility.

The AUTHORITY's Program Manager Team will maintain responsibility for the AUTHORITY's hydraulic model and will run updates as needed by the selected Consultant to support the design. Consultant shall request model run results no later than 30 days prior to the date needed to know the results. Such requests shall be made in writing to the AUTHORITY. Model run results will be delivered in a technical memorandum format.

C. Contract A – Sidney-Lark OLS Scope of Work

Alternative 1 – Offline Storage Tank (OLS)

The Sidney OLS Tank will be an underground, offline concrete storage tank capable of storing up to approximately one million gallons of combined sewer flow. The Sidney OLS will be located at the northwest corner of Sidney Street and Lark Street on properties owned by the City of Buffalo. The dimensions of the OLS tank will be approximately 110-feet by 130-feet. The design includes the addition of a new 48" gravity sewer running east from the Humboldt Parkway Sewer for the OLS tank influent, and a 36" gravity sewer running north on Lark Street for the tank effluent. The tank effluent sewer will connect to the Scajaquada Tunnel Interceptor via drop shaft approximately 400 linear feet south of the intersection of Northland Avenue and Lark Street at a depth of approximately 35 to 40 feet below grade.

Due to the depth of the existing sewer and proximity to residences, a micro-tunneling operation shall be required. The OLS tank would store combined sewer flow diverted during a storm event and then release the combined sewer flow when there is available capacity in the Scajaquada Tunnel Interceptor. The location was selected because of the ability to dewater the new OLS tank by gravity into the Scajaquada Tunnel Interceptor.

The design of the OLS tank system shall include, but not be limited to, the following features:

- Cast in place diversion chamber
- Maintenance access to the tank
- A tank cleaning mechanism such as tipping buckets
- Tank ventilation
- An odor control system
- Tank monitoring and control systems for automated operation and maintenance – remote monitoring
- Civil site improvements (stormwater management, landscaping, erosion and sediment control, water main replacement)
- Utility building
- An anti-buoyancy system as needed
- All necessary water-tight tie-ins/connections to the existing sewer system
- Maintenance of traffic
- Mirco-tunneling
- Drop shaft

Alternative 2 – Real Time Control Structure (RTC)

The Sidney RTC will be an underground control structure with an interconnection between the Humboldt Parkway Sewer and the Scajaquada Tunnel Interceptor. The Sidney RTC will be located at the intersection of Humboldt Parkway and Sidney Street, utilizing properties owned by the City of Buffalo at the intersection of Sidney Street and Lark Street to house electrical components. The design includes the addition of a new 48" gravity sewer running east from the Humboldt Parkway Sewer, running north on Lark Street to complete the interconnection. The proposed sewer will connect to the Scajaquada Tunnel Interceptor via drop shaft approximately 400 linear feet south of the intersection of Northland Avenue and Lark Street at a depth of approximately 35 to 40 feet below grade. The proposed sewer installation is anticipated to be installed via open cut. The RTC

would contain a modulating gate connected to SCADA to balance flow between Humboldt Parkway Sewer and the Scajaquada Tunnel Interceptor during rain events. The design of the RTC shall include but not be limited to the following features:

- Cast in place diversion chamber
- Remote monitoring and control systems for automated operation and maintenance
- Civil-site improvements (stormwater management, landscaping, erosion and sediment control, water main replacement)
- Exterior electrical control panels
- All necessary water-tight tie-ins/connections to the existing sewer system
- Maintenance of traffic
- Drop Shaft

D. Contract B – Overview of Edison-Martha OLS

The Edison Martha Offline Storage (OLS) Tank project aims to enhance the city's wastewater management infrastructure by constructing a state-of-the-art storage tank. This project is a critical component of our ongoing efforts to improve water quality, reduce overflow incidents, and ensure compliance with environmental regulations.

The scope of work includes the construction of the storage tank, associated piping, and necessary support structures. Additionally, the project will involve the integration of advanced monitoring and control systems to optimize performance and reliability.

Project specific preliminary design documents have been prepared to facilitate the RFP and shall be included herein via appendices as follows:

1. Preliminary Engineering Report – Edison Martha OLS (Appendix I)
2. Environmental Screening Memo – Edison Martha OLS (Appendix J)
3. Subsurface Investigation and Geotechnical Evaluation – Edison Martha OLS (Appendix K)
4. 30% Design Table of Contents and Guide Specifications (Appendix L)
5. 30% Design Drawings – Edison Martha OLS (Appendix M)
6. 30% Design Considerations and Assumptions – Edison Martha OLS (Appendix N)
7. These materials were developed for the purposes of establishing design intent, coordinating with stakeholders and regulators, and for approximating project schedule and cost. The selected consultant shall rely on these materials for the purposes of informing the development of final design documents, management of the work to conform with schedule and budget, and to deliver on intent. CONSULTANT shall develop additional reports and gather additional data as needed to complete final design and accept design responsibility.

The AUTHORITY's Program Manager Team will maintain responsibility for the AUTHORITY's hydraulic model and will run updates as needed by the selected CONSULTANT to support the design. CONSULTANT shall request model run results no later than 30 days prior to the date needed to know the results. Such requests shall be made in writing to the AUTHORITY. Model run results will be delivered in a technical memorandum format.

E. Contract B – Edison-Martha OLS Scope of Work

The Edison Martha OLS Tank will be an underground, offline concrete storage tank capable of storing up to 2.61 million gallons of combined sewer flow for the purpose of relieving the Edison Avenue Storm Relief Sewer, downstream Kensington Expressway Sewer at Edison Avenue, and Scajaquada Tunnel Interceptor during wet weather events to reduce CSO discharges to the Scajaquada Tunnel from SPP340, and appurtenant systems. Additional project information has been developed and is included as Appendix I – Preliminary Engineering Report. The Edison Martha OLS will be located at the corner of Edison Avenue and Kensington Expressway on property owned by the City of Buffalo. This Project is adjacent to the existing Charter of Inquiry School and within the footprint of the City of Buffalo's Roosevelt Playground. THE CONSULTANT shall prepare designs to minimize impact to the operations of these facilities during construction and resulting from the completion of construction and operational needs of the facility. The OLS is proposed to be located in the boundary of the Park and shall be below grade, with access points into the OLS minimized to the extent practical. Coordinate the needs for maintenance of the OLS and OLS flushing system components with BSA and City Parks during design development and secure approval of layout, access, roadway, and fencing concepts from City Parks. Coordinate with the Charter School during design development to incorporate school activities continuity and minimization to operations during construction and after, during operation.

The dimensions of the OLS tank will be approximately 130-feet by 336-feet. The design also includes an associated diversion structure in Edison Avenue and tank inlet and outlet sewers near the northwest corner of Edison Avenue and Kensington Expressway. The OLS tank would store combined sewer flow diverted during a storm event and then release the combined sewer flow when there is available capacity in the Scajaquada Tunnel Interceptor. The location was selected because of the ability to dewater the new OLS tank by gravity into the Scajaquada Tunnel Interceptor.

The design of the OLS tank system shall include but not be limited to the following features:

- Maintenance access to the tank
- A tank cleaning mechanism such as tipping buckets
- Tank ventilation
- An odor control system
- Tank monitoring and control systems for automated operation and maintenance – remote monitoring
- Civil site improvements (stormwater management, landscaping, erosion and sediment control, water main replacement)
- Geotechnical
- Utility building
- An anti-buoyancy system as needed
- All necessary water-tight tie-ins/connections to the existing sewer system
- Maintenance of traffic

F. Design Services Schedule

The proposal shall address the CONSULTANT'S approach to providing plans, specifications, and opinion of probable construction costs (OPCC) according to the schedule of:

60% Design Plans, Specifications, and OPCC	Monday, January 12, 2026
90% Design Plans, Specifications, and OPCC	Friday, June 5, 2026
Final Construction Documents and OPCC	Friday, November 20, 2026

The CONSULTANT shall coordinate designs, including pre-construction utility coordination, with all stakeholders and obtain necessary design phase permits. The CONSULTANT shall be responsible for coordinating with BSA to secure all easements for the project.

Detailed design requirements are provided in Appendix O.

G. Bidding Services

In addition to design services, the CONSULTANT shall provide the following construction contract bidding services:

1. Prepare copies of plans and specifications for bidders for bidding through a document services provider. THE AUTHORITY has used Avalon Document Services for past projects.
2. Coordinate with THE AUTHORITY and the document services provider during preparation of public bid process.
3. Conduct pre-bid meeting.
4. Respond to bidders' questions during bidding period.
5. Prepare tabulation of bids.
6. Review bids and provide Recommendation on Award.
7. Conduct pre-award conference with low bidder.
8. Any other bidding services, as necessary

H. Grant/Loan Proposal Services

This project will be funded utilizing a Clean Water State Revolving Fund (CWSRF). If federal/loan grant funding becomes available CONSULTANT shall also provide grant/loan proposal services to assist THE AUTHORITY in applying for New York State Environmental Facilities Corporation / New York State Department of Environmental Conservation and other grant/loan funding for this project.

These services shall include:

1. Attending pre-proposal webinars
2. Drafting proposals and assembling proposal packages

I. Public Participation / Community Engagement

We, as THE AUTHORITY need to hear from the community as to how the negative impacts can be mitigated, what issues the community is already facing in accessing clean and storm water services in an affordable and equitable fashion, how THE AUTHORITY can better serve the community, and how these projects can provide long- term benefits to the community beyond the required reductions in receiving water quality.

In-person meetings are expected to be held in coordination with the respective City of Buffalo Council District offices, community-based organizations, and whenever possible be incorporated into larger pre-existing public forums. In addition to these community forums, it is expected that educational materials will be developed, and a plan will be created for distribution during Buffalo's many parades and festivals.

It is expected that a joint AUTHORITY-CONSULTANT team, facilitated by the AUTHORITY'S Program Management Team (PMT) Community Engagement Consultant, will be available to address community questions during these events to ensure that the community is informed of all planned upcoming capital projects that will impact their neighborhoods. It is further expected that this communication occurs on an at minimum semi-annual basis throughout project development and that the first community outreach will occur during the first six months of preliminary project development to ensure negative community impacts are mitigated to the greatest extent possible and community benefits can best be tailored to the needs of the community and the specific project needs. The CONSULTANT will coordinate and work with the PMT on community engagement and project informational materials.

J. Community Partnership Program

THE AUTHORITY is committed to the goal of advancing an inclusive and comprehensive community benefits program to create a meaningful and positive impact within the communities and neighborhoods served by the AUTHORITY by creating an avenue for community partnerships to form with consultants and contractors of the AUTHORITY. The Community Benefits Program seeks to leverage the economic and social impact THE AUTHORITY has in the community with large-scale construction and construction related projects as well as professional services and engineering services.

The Community Partnership Program (CPP) is designed to deliver long-lasting positive economic, environmental, and social impacts in our service area under the following categories: (1) Economic Development, (2) Education, (3) Public and Environmental health, and (4) Workforce Development

Through local partnerships, volunteering, and financial contributions, our goal is to grow a workforce talent pipeline that supports Buffalo Sewer's core services and ensures City of Buffalo residents experience public benefits, including opportunities for generational wealth creation, workforce/business development, education, and improved environmental health.

THE AUTHORITY'S Community Benefits Program will provide an opportunity for its contractors to engage in corporate social responsibility supporting our communities.

In addressing the voluntary Community Partnership Program, it is expected that the CONSULTANT shall discuss not just commitments made by the CONSULTANTs to ensure that their own contract will provide a community benefit, but also a specific commitment to a community partnership to ensure that a meaningful Community Partnership Program is incorporated into this contract.

The AUTHORITY is in the process of finalizing criteria for qualifying Beneficiaries (community partners).

III. REQUIRED CONTENT AND FORMAT

To create a platform for fair and uniform consideration of responses, please provide the following materials in the order listed below. Submissions should be prepared simply and provide a straightforward, concise delineation of the CONSULTANT'S capabilities and description of the offer to meet the requirements of this RFP. THE AUTHORITY will not be responsible for any costs incurred by any CONSULTANT in preparing and submitting a response to this solicitation.

A. Cover Letter

CONSULTANT shall prepare and sign a cover letter confirming their understanding of the RFP including the following provisions for the contract:

1. Project scope of work.
2. Timeframe for completion.
3. THE AUTHORITY'S contract requirements: Submission of the letter shall constitute a representation by the CONSULTANT that it is willing and able to perform the services described in this RFP and their responsive submission.

B. Approach

CONSULTANT shall provide a narrative description of its approach detailing an understanding of THE AUTHORITY'S intent and objectives as well as how the CONSULTANT proposes to achieve those objectives. It must discuss the CONSULTANT'S plan for implementing, and effectuating the described services, including any proposed approach to project management, strategies, tools and safeguards for ensuring performance of all required activities as well as any additional relevant factors for THE AUTHORITY'S consideration.

C. Experience

Provide a brief description of at least three (3) similar projects of this type and scope. Include project references and total costs of reference projects. Descriptions for each project should be limited to one page for each location. Experience will not be considered unless complete reference information is provided. At a minimum, the following information must be included for each reference project:

1. Client name, address, contact person name, telephone, and email address.
2. Project name and location.
3. Description of services provided similar to the services outlined in this RFP.
4. Identify services, if any, that were subcontracted, and to what other company(ies).
5. Total dollar value of the contract.
6. Contract term (start and expiration).
7. Actual completion date.
8. CONSULTANT personnel that worked on that project.

THE AUTHORITY may solicit relevant information concerning the CONSULTANT'S record of past performance from previous clients, or any other available sources.

D. Professional Team

Present specific expertise and how the CONSULTANT'S qualifications would best serve THE AUTHORITY. Include a description of the proposed individuals that will perform the required tasks/scope of work for this project on the STAFFING WORKSHEET, provided as Appendix P, included with this RFP including:

1. Name of individual that will be assigned to this project
2. Education background/degrees
3. License or Certifications
4. Area of Expertise
5. Length of time individual has been with proposing company
6. Overall years of experience
7. Description of specific relevant experience
8. Role for Projects Resulting from this RFP
9. Anticipated percent (%) of project time working on projects from this RFP
10. Base location (local facility, as applicable)

Include one-page resumes for the individuals listed in the STAFFING WORKSHEET, provided within Appendix P.

Please complete the attached EEO plan, provided as Appendix Q, for the anticipated project team for the anticipated project team (Note: EEO Staffing Plan is required for both project team and firm).

E. Company Profile

CONSULTANT is required to prepare and submit a brief description of the CONSULTANT'S firm, company, or corporation, which must include:

1. Name, mailing address, email address, telephone number and fax number of the primary contact person for firm.
2. A brief description of firm, number of years in business, major markets served, company history, relevant operating segments, primary vision and strategy, number of employees, office locations and any Joint Venture Partners.
3. Clearly state whether your main office/parent firm is currently licensed as an individual, partnership, or corporation to practice professional engineering in New York State.
4. State the number of employees in the firm. If a branch office will perform the work, indicate the size of the branch office.
5. Please complete the attached Appendix Q: Buffalo Sewer Authority EEO Staffing Demographics Form for the firm (**Note: EEO Staffing Plan is required for both project team and firm).**
6. List any current or anticipated commitments that may impact the project or use of the identified personnel proposed for this project.
7. Financial statement demonstrating your firm's financial capacity to undertake and complete the project.
8. State any potential conflicts of interest. Include any employment or other relationship your firm has with regulating agencies, local municipalities, or any other entity, which may be

perceived as a conflict of interest. Explain why any such conflicts of interest would not impact this project.

9. A copy of any resolution or some other form of THE AUTHORITY, signed by a Chief Executive Officer, Corporate Secretary, or managing partners, which lists the specific officers who are authorized to execute agreements on behalf of the CONSULTANT.

F. Cost Proposal

One (1) original price proposal must be prepared for digital submission to OneDrive containing a Portable Document Format (PDF). The cost proposal shall be as indicated in Appendix R.

IV. EVALUATION AND SELECTION PROCESS

The review and selection team will be assigned by the General Manager or Designee. The review and selection team will consider, but may not be limited to, the following factors:

Criteria	Estimated Weight
Demonstrated understanding of project requirements	15%
Technical and creative quality of proposed approach, including community engagement and social impacts	15%
Approach to the project schedule	20%
Experience with comparable projects	15%
Professional team organization and expertise	15%
Minorities, Women, and MBE/WBE/DBEs as percentage of professional team	15%
Company profile	5%

THE AUTHORITY reserves the right, in its sole discretion, to disqualify any CONSULTANT whose conduct and/or submission fails to conform to the requirements of this solicitation. Factors such as, but not limited to, evidence of collusion among respondents, attempts to improperly influence any member of THE AUTHORITY, purposeful provision of false or inaccurate information; default under any type of agreement, and existence of any unresolved litigation or legal dispute may be considered.

Submissions which are incomplete and missing key components necessary to fully evaluate the submission may, at the sole discretion of the committee, be rejected from further consideration due to “non-responsiveness” and rated non-responsive. Submissions providing responses to all sections will be eligible for detailed analysis.

THE AUTHORITY reserves the right, in its sole discretion, to make an award, with or without negotiation, under the solicitation in whole or in part, or no award at all; negotiate with the successful CONSULTANT within the scope of solicitation in the best interests of THE AUTHORITY; subdivide or combine work; accomplish any task or undertaking of any operation or project utilizing its own work force; and utilize any and all ideas submitted.

V. THE AUTHORITY'S RESERVATION OF RIGHTS

Upon submission in response to this Request for Proposals, each CONSULTANT acknowledges and consents to the following conditions relative to the submission, review and consideration of its submission:

1. All costs incurred by the CONSULTANT in connection with responding to this Request for Proposals and for participating in this procurement process shall be borne solely by the CONSULTANT.
2. THE AUTHORITY reserves the right, in its sole discretion, to reject for any reason any and all responses or components thereof and to eliminate any and all CONSULTANTS responding to this Request for Proposals from further consideration for this procurement.
3. THE AUTHORITY reserves the right, in its sole discretion, to reject any CONSULTANT that submits incomplete responses to this Request for Proposals, or a submission that is not responsive to the requirements of this Request for Proposals.
4. THE AUTHORITY reserves the right, without prior notice, to supplement, amend, or otherwise modify this Request for Proposals, or otherwise request additional information.
5. All submissions in response to this Request for Proposals shall become the property of THE AUTHORITY and will not be returned.
6. All submissions in response to this Request for Proposals shall constitute public records subject to public disclosure.
7. THE AUTHORITY may request that CONSULTANTS personally attend or send representatives to THE AUTHORITY for interviews and a demonstration of CONSULTANT's proposed services.
8. Any and all submissions in response to this Request for Proposals that are not received by THE AUTHORITY by 10:00 AM on Tuesday, March 4, 2025, shall be rejected and not subject to consideration.
9. Neither THE AUTHORITY, nor its officers, officials nor employees shall be liable for any claims or damages resulting from the solicitation, preparation or delivery of any submission(s) in response to this Request for Proposals.

THE AUTHORITY reserves the unilateral right, in its sole discretion, to make and to accordingly exercise the following rights and options regarding this Request for Proposal and the procurement process in order to obtain the most advantageous offer for THE AUTHORITY:

1. To waive irregularities and/or minor non-compliance by any CONSULTANT with the requirements of this Request for Proposals.
2. To request clarification and/or further information from one or more CONSULTANTS after the submitted deadline for submissions without becoming obligated to offer the same opportunity to all CONSULTANTS.
3. To enter into negotiations with one or more CONSULTANTS without being obligated to negotiate with, or offer the same opportunity, to all CONSULTANTS.
4. To reject any or all submission or parts of submissions, to accept part or all a submission or submissions based on considerations and to create a project of lesser or greater scope and/or breadth than described in this Request for Proposals or the CONSULTANT's submission.
5. To determine that any submission received in response to this Request for Proposals complies or fails to comply with the terms set forth herein.

6. To determine whether any perceived or actual conflict of interests exists that would affect or impair the award of any contract arising from this Request for Proposals to any CONSULTANT(s);
7. To waive any technical non-conformance with the terms of this Request for Proposals.
8. To change or alter the schedule for any events called for in this Request for Proposals.
9. To conduct investigations of any or all the CONSULTANTS, as THE AUTHORITY deems necessary or convenient, to clarify the information provided and to request additional information to support the information included in any submission.
10. To suspend or terminate the procurement process described in this Request for Proposals at any time. If terminated, THE AUTHORITY shall have the unilateral right to determine to commence a new procurement process without any obligation to the CONSULTANT.
11. THE AUTHORITY shall be under no obligation to complete all or any portion of the procurement process described in this Request for Proposals.

CONSULTANTS are advised to submit a complete offer as their submission. Any waiver, clarification or negotiation will not be considered an opportunity for CONSULTANTS to correct errors contained in their submission.

VI. CONTRACT REQUIREMENTS

1. **FORMATION OF AGREEMENT/CONTRACT WITH SUCCESSFUL CONSULTANT:** The Contract or Agreement to be negotiated, if a CONSULTANT is selected as a result of this RFP process, shall be entered into by and between the CONSULTANT and THE AUTHORITY and shall contain but shall not be limited to certain provisions included in this RFP as determined by THE AUTHORITY and as follows in this Section **VI CONTRACT REQUIREMENTS**.

2. **PROJECT DELIVERABLES:** It is understood and agreed that all drawings, specifications, records, data and maps shall become property of THE AUTHORITY. The CONSULTANT shall deliver such records to THE AUTHORITY as it may request and upon payment of current amounts due under this Agreement. It is understood and agreed that all instruments of professional services developed under said Agreement are the property of THE AUTHORITY. THE AUTHORITY reserves the right to modify, expand and adapt said instruments consistent with the intended design objectives. The CONSULTANT shall deliver such records to THE AUTHORITY as it may request and upon payment of current amount due under this Agreement. It is further understood and agreed that existing technical data, pertaining to a specific assignment, shall be made available to the CONSULTANT by THE AUTHORITY.

3. **INDEMNITY OF AUTHORITY:** The CONSULTANT shall and will defend, indemnify and at all times save harmless THE AUTHORITY and the CITY OF BUFFALO (CITY), and their respective officers and employees from and against all claims, suits, actions, damages, losses and costs of every name and description to which THE AUTHORITY and or the CITY may be subjected or put by reason of damage to any property whatsoever and or by reason of any injury to any person whatsoever, and or damage to the property of THE AUTHORITY or of the CITY arising out of and or in any way in connection with the work and or services performed by the CONSULTANT, and or resulting from the negligence or carelessness, active or passive of the CONSULTANT, and or the joint negligence, active or passive, of the

CONSULTANT and others, or their employees, agents and or subcontractors, in the performance of any service and or work performed by or for CONSULTANT related to this Agreement. The provisions of this section shall survive the expiration and or termination of this Agreement; and shall not be limited by reason of any insurance coverage provided hereunder and or by the limits of any insurance coverage requirements; and shall be separate and independent of any other requirements of this Agreement.

The CONSULTANT shall and will defend, indemnify and at all times save harmless THE AUTHORITY and the CITY and their respective officers and employees from and against any and all loss and or damage, claims and demands, costs and charges that may arise or accrue by reason of the adoption or use by the CONSULTANT of a patented article, device, or improvement, or by reason of the acceptance, adoption or use by THE AUTHORITY and or by the CITY of a patented article, device or improvement furnished or delivered by the CONSULTANT, and the CONSULTANT agrees not to adopt or make use of a patented article, device or improvement unless CONSULTANT shall have first obtained the right and privilege so to do and also the right and privilege of THE AUTHORITY and or the CITY to use such patented article, device, or improvement without infringing upon the rights of the patentee and without any expenses whatsoever either to THE AUTHORITY and or to the CITY.

4. **ASSIGNMENT:** This Agreement contemplates the particular services of the CONSULTANT and the CONSULTANT shall not without the prior written consent of THE AUTHORITY assign, transfer or otherwise dispose of this Agreement (in whole and or in part), or CONSULTANT'S right, title and interest therein or any part thereof, to any person, firm or corporation, except that moneys due to the CONSULTANT and duly approved for payment by THE AUTHORITY and or by the CITY may be assigned by CONSULTANT to any bank or financial institution which is rendering financial assistance to the CONSULTANT on or with respect to CONSULTANT'S performance of services and or work under this Agreement.

5. **INSURANCE:** The CONSULTANT agrees to provide and maintain in full force and effect at least the following insurance coverages. The CONSULTANT shall deliver to THE AUTHORITY Certificates of Insurance evidencing at least the following insurance coverages, which such insurance certificates shall provide for thirty (30) days' notice to be given to THE AUTHORITY in the event of a cancellation. THE AUTHORITY and the CITY shall be named as additional insureds under the CONSULTANT'S Comprehensive General Liability Insurance policy(ies) and under the CONSULTANT'S excess liability insurance policy(ies) and under the CONSULTANT'S automobile liability insurance policy(ies) and as evidence thereof appropriate certificates of insurance shall be provided to THE AUTHORITY.

    a. Comprehensive General Liability Insurance including also Blanket Contractual, Broad Form Property Damage, Competed Operations and Independent Contractor's Liability all applicable to Personal Injury, Bodily Injury and Property damage for a combined single limit of coverage of no less than $1,000,000 each occurrence and no less than $2,000,000 annual aggregate for the foregoing. The certificate of insurance evidencing such coverages shall name THE AUTHORITY and the CITY each as an additional insured and as Certificate Holder.

    b. Comprehensive Automobile Liability Insurance including all vehicles whether owned, hired and or non-owned automobiles and or other vehicles, and covering

Bodily Injury and Property Damage for a combined single limit coverage of no less than $2,000,000 each occurrence. A combined single limit coverage of no less than $1,000,000 may be acceptable if CONSULTANT provides and maintains excess/umbrella liability insurance coverage in the amount of no less than $6,000,000. The certificate of insurance evidencing such automobile / vehicular liability insurance coverage shall name THE AUTHORITY and the CITY each as an additional insured and as Certificate Holder.

c. Excess/Umbrella Liability Insurance in at least the coverage amount of $5,000,000. The certificate of insurance for Excess/Umbrella Liability insurance coverage shall name THE AUTHORITY and the CITY each as an additional insured and as Certificate Holder.

d. Workers Compensation Insurance and Disability Insurance both to be evidenced on the respective New York forms each showing THE AUTHORITY and the CITY as a Certificate Holder.

e. Architects and/or Engineers Professional Liability Insurance affording professional liability insurance in the coverage amount of no less than $5,000,000.

Acceptability of Insurers: All of the successful CONSULTANT's insurance policies shall be written by insurance companies admitted in the State of New York and authorized to do business in the State of New York or otherwise acceptable to THE AUTHORITY, City's Comptroller and the Corporation Counsel in their sole respective discretion.

6. **NON-DISCRIMINATION:** The CONSULTANT shall not discriminate against any employee or applicant for employment because of an individual's age, race, creed, color, national origin, sexual orientation, gender identity or expression, military status, sex, disability, predisposing genetic characteristics, familial status, marital status, or domestic violence victim status. Such prohibition against discrimination shall include, but not be limited to, the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation and selection for training, including apprenticeship.

7. **EQUAL EMPLOYNMENT OPPORTUNITY:** THE AUTHORITY encourages our contracting partners to adopt business methods and models that foster and result in a equal employment opportunities for all. CONSULTANT shall provide a copy of their Equal Employment Opportunity Policy (EEO) and complete the provided Equal Employment Opportunity Staffing Plan. The CONSULTANT shall use good faith efforts to achieve the utilization of minority group members, women and other disadvantaged workforce members consistent the City of Buffalo Code § 96-13 (F); Article 15A of NYS Executive Law; and federal Equal Employment Opportunity and Disadvantaged Business Enterprise laws, where applicable.

8. **CONTRACTING WITH MINORITY AND WOMEN BUSINESS ENTERPRISES (M/WBE) AND DISADVANTAGED BUSINESS ENTERPRISES (DBE):** THE AUTHORITY requires the CONSULTANT to take affirmative steps to select certified small business enterprises, including minority and women business enterprise firms and disadvantaged business enterprise firms as subcontractors. The M/WBE goal for AUTHORITY projects shall be 30%

total to include a minimum of 5% MBE participation and 5% WBE participation. DBE requirements may also apply, depending on the project federal/state funding source. CONSULTANT D/M/WBEs must be certified by New York State (NYS).

a. THE AUTHORITY and CONSULTANT will take all necessary affirmative steps to assure that minority, women, and disadvantaged business enterprises are used when possible.

b. Affirmative steps shall include:
   i. Placing qualified small minority businesses and women business enterprises on solicitation lists.
   ii. Assuring that small minority businesses, and women business enterprises are solicited whenever they are potential sources.
   iii. Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small minority business, and women's business enterprises.
   iv. Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority business, and women's business enterprises.

The CONSULTANT shall provide an affirmation of the above as well as a MWBE and DBE Utilization Plan to be undertaken under the agreement.

9. **FIRST SOURCE:** In support of City of Buffalo First Source hiring policies, the selected Consultant agrees that (i) in the hiring of any employees, subcontractor(s), or person(s) acting on behalf of the subcontractor, preference shall first be given to qualified persons who have resided in the City of Buffalo for at least six (6) consecutive months immediately prior to the commencement of their employment for the performance of work and (ii)the Consultant and any subcontractor(s) will work towards ensuring a minimum residency goal of 30% of workforce to include qualified residents in the City of Buffalo.

10. **PUBLICATIONS:** CONSULTANT shall not make any news/press release, announcements, presentations, publication, or award application pertaining to this Agreement or the Services, or anything contained or referenced herein, without prior written approval from THE AUTHORITY. Any promotion pertaining to the Services, or this Agreement may only be made in coordination with THE AUTHORITY. Unless otherwise directed in writing, THE AUTHORITY name and logo shall be prominently featured on all work products and promotional materials, printed and/or electronic. Unless otherwise directed in writing, CONSULTANT'S name and logo shall be subservient to THE AUTHORITY's recognition and labeled as "prepared by" on all work products and promotional materials, printed and/or electronic.

11. **FREEDOM OF INFORMATION LAW:** THE AUTHORITY is subject to the provisions of Article 6 Section 89 of New York State Public Officer's Law, entitled the Freedom of Information Law. All submissions, in their entirety, submitted in response to this Request for Proposals shall constitute a record subject to public disclosure pursuant to the Freedom of Information Law. It is the sole responsibility of each CONSULTANT to this Request for Proposals to identify those portions deemed to constitute a "trade secret" or proprietary information of the commercial enterprise. Any such information shall be clearly marked

"CONFIDENTIAL". The phrase trade secret is more extensively defined to include a formula, process, device or compilation of information used in one's business which confers a competitive advantage over those in similar businesses who do not know it or use it. The subject of the trade secret must not be of public knowledge or of a general knowledge in the trade or business. A corresponding letter, on company letterhead, must be provided describing the factors and extent to which the disclosure of the "CONFIDENTIAL" information would cause substantial injury to the competitive position of the commercial enterprise. The entire submission shall not be marked "CONFIDENTIAL". Any portion of the proposal that is not clearly identified as "CONFIDENTIAL" may be disclosed pursuant to the Freedom of Information Law. Further, marking a portion of the submission "CONFIDENTIAL" is no assurance that THE AUTHORITY will not be directed to nonetheless release the information/documentation so marked. THE AUTHORITY DOES NOT ASSUME ANY RESPONSIBILITY WHATSOEVER TO ANY CONSULTANT IN THE DISCLOSURE OF RECORDS PURSUANT TO THE FREEDOM OF INFORMATION LAW, COURT ORDER, OR ANY OTHER METHOD OF DISCLOSURE PROVIDED FOR UNDER THE LAW.

12. **SRF REQUIREMENTS:** CONSULTANTS must comply with the terms and conditions mandated by the New York State Clean Water State Revolving Fund program, administered by the New York State Environmental Facilities Corporation. THE AUTHORITY may seek funding from the New York State Environmental Facilities Corporation (EFC) for both the design and construction of these structures and the consultant's submission shall reflect EFC requirements including, but not limited to, those regarding EEO, MWBE, and American Steel, and Federal Disadvantaged Business Enterprise Regulations. The complete Bid Packet for Non-construction Contracts is available online at https://www.efc.ny.gov/bid-packets. You are hereby notified that in addition to the MWBE participation goal required by EFC, BUFFALO SEWER has a minimum 5% participation goal for MBEs, a minimum 5% participation goal for WBEs, and a combined M/WBE participation goal of 30%. Complete worksheets provided in Appendix S, DBE Plan and Appendix T, MWBE Plan.

13. **GENERAL COMPLIANCE:** The successful CONSULTANT agrees to comply with all applicable Federal, State and local laws and regulations governing the services to be solicited under this Request for Proposal.

BUFFALO SEWER AUTHORITY

TYLin

2025 NYWEA ANNUAL MEETING

Setting up a Program Management System for a Major Capital Projects Implementation Plan

Rosaleen Nogle, PE, BCEE
Principal Sanitary Engineer, BSA

Walt Walker, PE, ENV SP
TYLin Vice President, Equity Practice Leader
BSA Capital Projects Program Manager

Carina Tan, ENV SP
TYLin Project Engineer & Program Coordinator

NYWEA
LEADING THE WAY IN WATER QUALITY MANAGEMENT

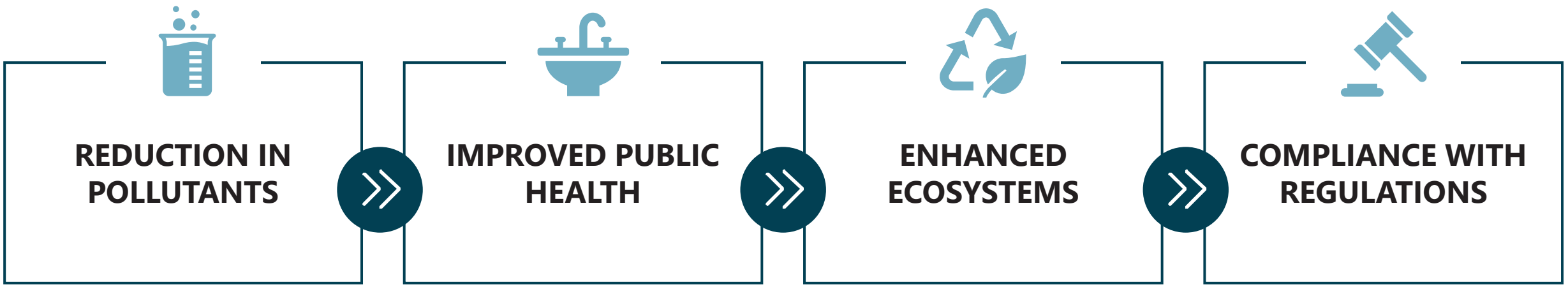
Program Goals

- Continuing Buffalo Sewer's 90-year mission to protect public health
- Meet all state + federal regulations
- Deliver the Buffalo Sewer's capital projects and Long-Term Control Plan more efficiently, for a more resilient Buffalo
- Manage and Coordinate the delivery of all projects and subprograms
- Optimize interactions and coordination between projects
- Enhance relationships between capital and O&M staff, and the public/community
- Improve customer satisfaction, creating more opportunities for public participation and community engagement
- Standardization of tools, processes and execution across all Buffalo Sewer projects/programs
- Identify and advance specific programmatic opportunities to promote Buffalo policies and strategic priority goals, including financial stability, transparency and accessibility to the public

Key Terminology

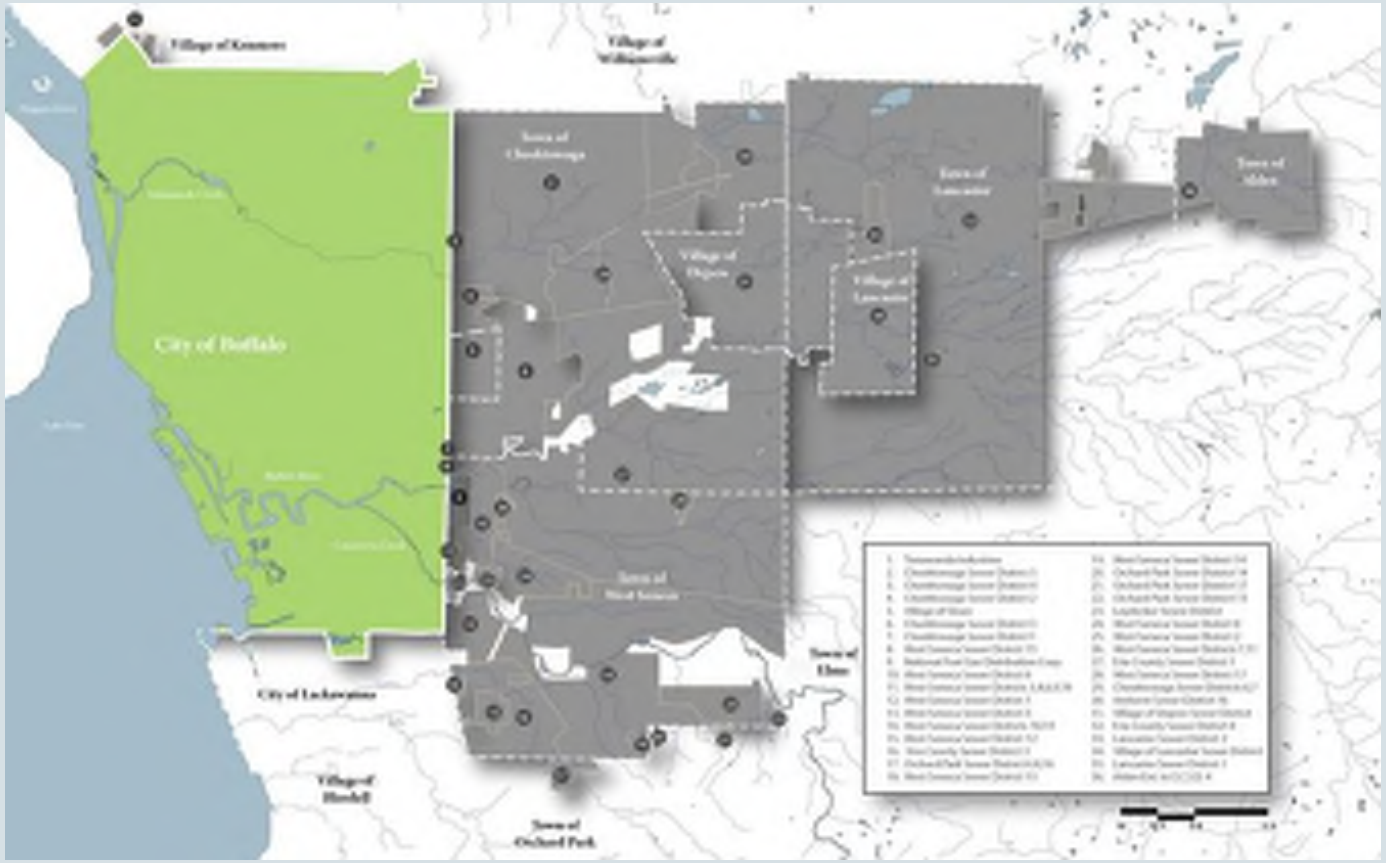
- **CSO:** when a combined sanitary and storm sewer overflows into a waterbody during high flow precipitation events
- **Interceptor:** large diameter sewer pipe that collects wastewater from smaller neighborhood pipes
- **ILS:** the storage of wastewater temporarily within the existing sewer pipes
- **OLS:** A tank that holds extra water when the sewer is full, then drains it to be treated when there's space.
- Orifice plate: A flow restricting device
- **Overflow Weir:** a barrier that lets excess water flow over the barrier to control water levels
- **RTC:** Sewer chambers with automatic gates store and release water to prevent overflows when the treatment plant is ready.
- **SPP:** A chamber that directs water to the treatment plant in dry weather or overflow area during heavy rain.
- **Underflow Pipe:** is a pipe that allows water to flow underneath a barrier to manage water levels to prevent flooding
- Weir: Water flow control barrier

Water Quality Benefits



Buffalo Sewer Authority

- Founded on April 8, 1935
- Created to “provide an effectual means for relieving the Niagara River, Buffalo River and Lake Erie from pollution by sewage and waste”
- Approximately 200 employees
- Serves Buffalo and 11 Outlying Communities



1994

USEPA CSO Control Policy Issued (Required Development of LTCP)

2004

Submitted Initial LTCP to New York State Department of Environmental Conservation (NYSDEC)

2007

NYSDEC/USEPA Request Additional Evaluations

2009

Negotiation of Consent Decree Begins

2012

Submitted LTCP Update to USEPA/ NYSDEC (as directed by regulatory agency

2014

Final LTCP Report Submitted to USEPA/NYSDEC

2022

Revised collection system model is approved

2023

QCCW (51 proposed projects) submitted to NYSDEC

What does that mean for present and future?

- Changing Dynamics with Consultants and the Public
- Centering Public Participation and Community Engagement in the LTCP
- Graying our Green: Concentrating Flows to Increase Affordability
- Greening our Gray: Place Making Instead of Camouflage
- Globalized System Logic Continuous System Monitoring
  - Constant Improvement
  - Commitment to Smart System
- Holistic and watershed thinking over individual CSO
  - Informed by Individual CSO Needs
    - Globalization Opportunities
    - City owned lands
      - Parks, Vacant Lots, Right of Ways
- Synergistic Thinking

Queen City Clean Waters (QCCW) – Mission and Vision

BUFFALO SEWER AUTHORITY

QUEEN CITY CLEAN WATERS

VISION

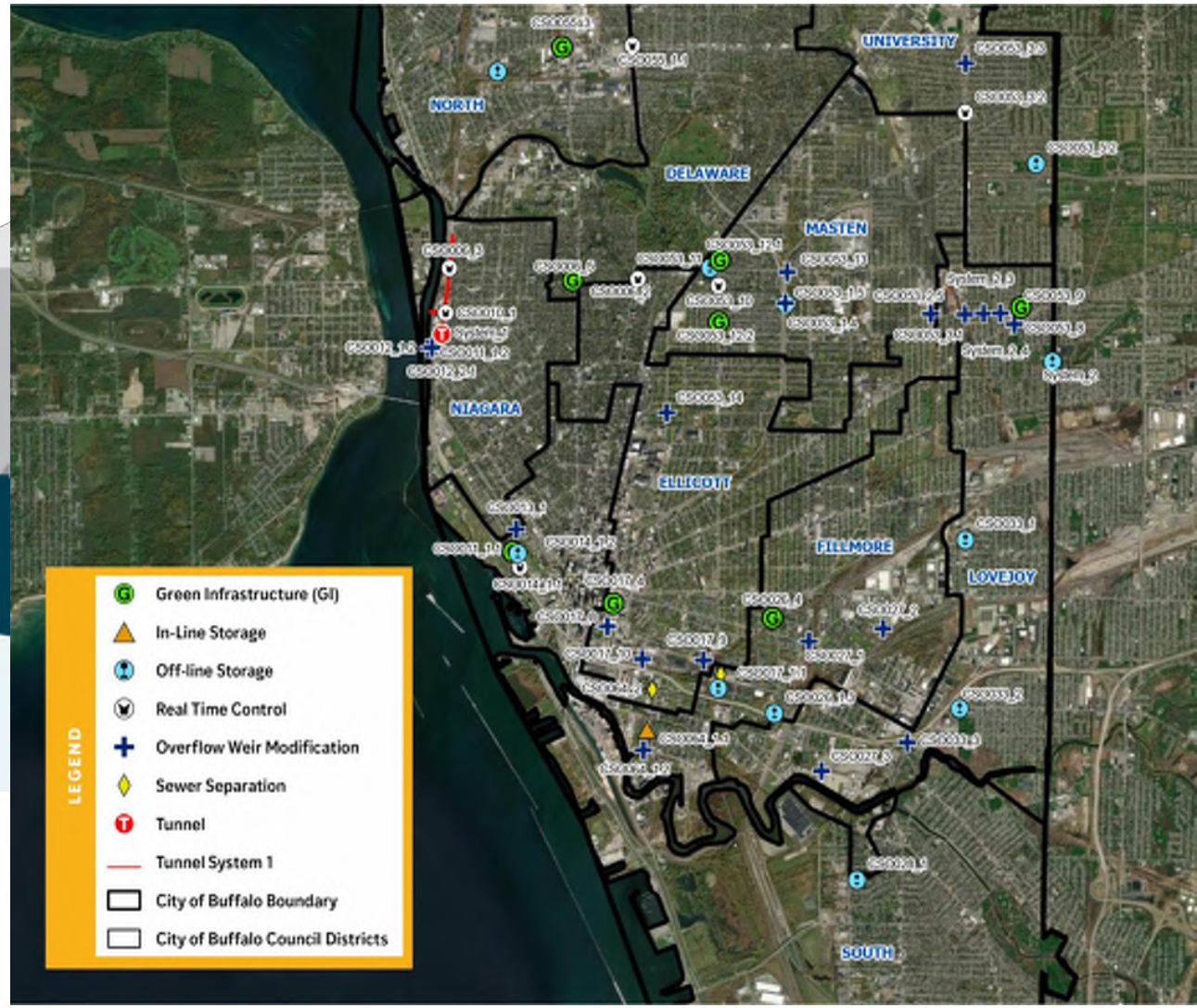
Clean waters and a resilient Buffalo.

MISSION

To safeguard public health and the environment while fostering strong community partnerships, creating meaningful workforce opportunities, and driving lasting economic impact for future generations in Buffalo.

Queen City Clean Waters

PROGRAM OVERVIEW



QCCW Brand Media Launch Event

October 16, 2024

Program Management

PROGRAM PORTFOLIO AT A GLANCE

- General Program Management
- Queen City Clean Waters Collection System Projects
- Queen City Clean Waters Facilities Projects – Outlying Stations
- Queen City Clean Waters Facilities Projects –WWTP
- Community Partnerships & Public Communications
- Procurement and Workforce
- Funding
- Operations Support
- Asset Management
- Program Controls + PMIS
- Standard Operating Procedures

Implementation of PMIS (Project Management Information System)

Background

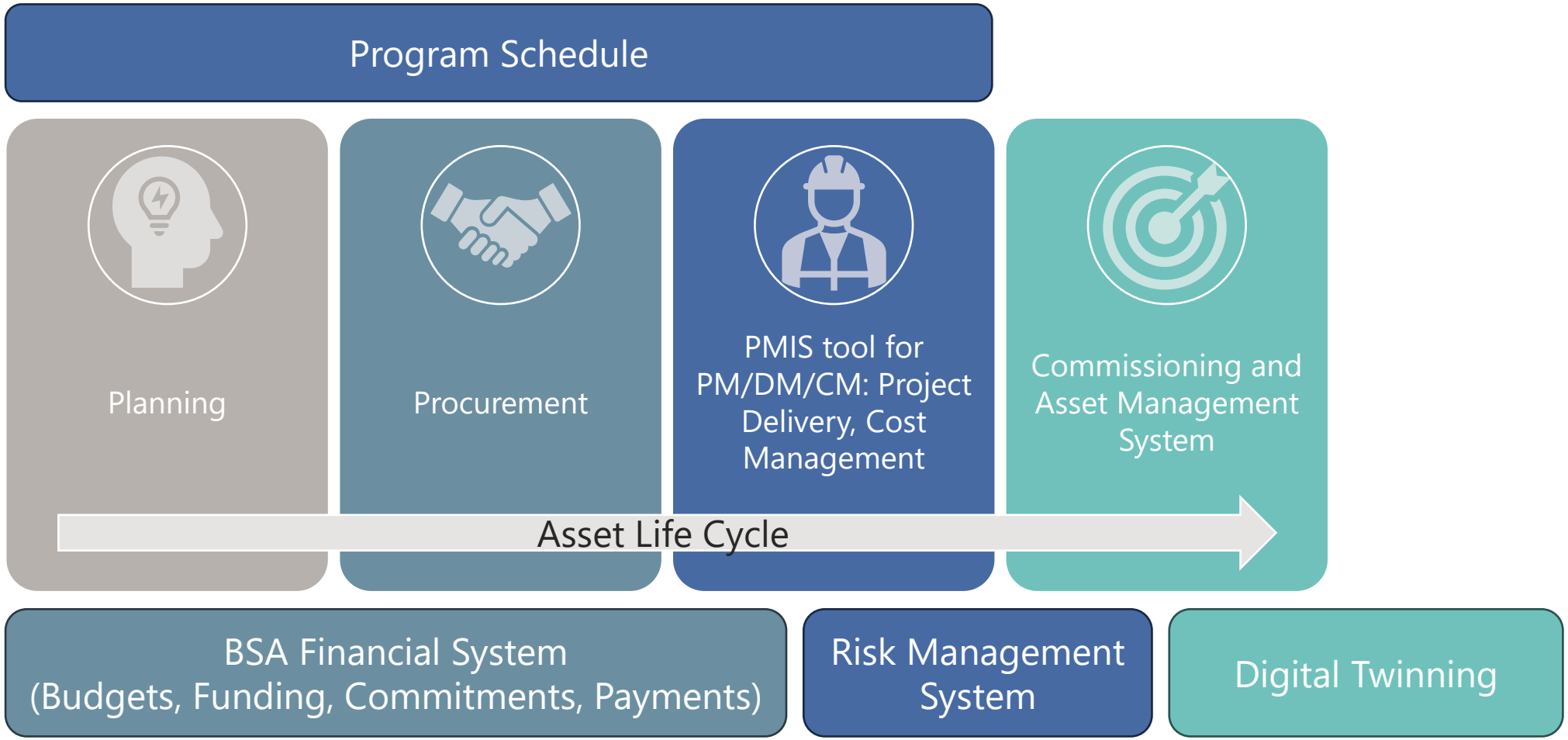
- Assessment surveys
- Evaluation of industry
- BSA seeks to obtain and achieve streamlined systems for program delivery, controls and reporting
- Limited use of Procore
- Excel spreadsheets are used for routine project progress analysis
- Need to have separate approaches for program/project related applications and O&M applications

Vision

- Integrated program controls functions
- Uniform and consistent reporting
- Consolidate information of all projects at one location
- Program and project level reporting
- Efficient use of one integrated system instead of several isolated systems

PMIS Roadmap

LEGEND: PMIS Components



Current PMIS Comparison

PMIS Tool	Comments	Project Delivery	Document Management	Cost Management	Cost-Related Flexibility	Price	Out of Box	Vendor Support	Admin Efficiency
A-SITE	Financially not as flexible, but low price point	Yes	Yes	Limited	Limited	$	Yes	Limited	High
Unifier	Strong community, strong vendor support	Yes	Yes	Yes	Strong	$$	Yes	Strong	High
E-Builder	Strong community, erratic pricing practices	Yes	Yes	Yes	Strong	$$$	Yes	Moderate	Moderate
Kahua	No staging environment; "extensions" not supported	Yes	Yes	Yes	Limited	$$	Yes	Limited	Weak
ProCore	Developing owner functionality; limited funding; no WF kickoffs	Yes	Yes	Limited	Limited	$$$	Yes	Strong	High
Project Mates	New product, low price point	Yes	Yes	Limited	Limited	$	Yes	Limited	High

Based on BSA survey responses, Unifier and eBuilder were selected for further cost comparison.

Evaluation Criteria and Survey Results

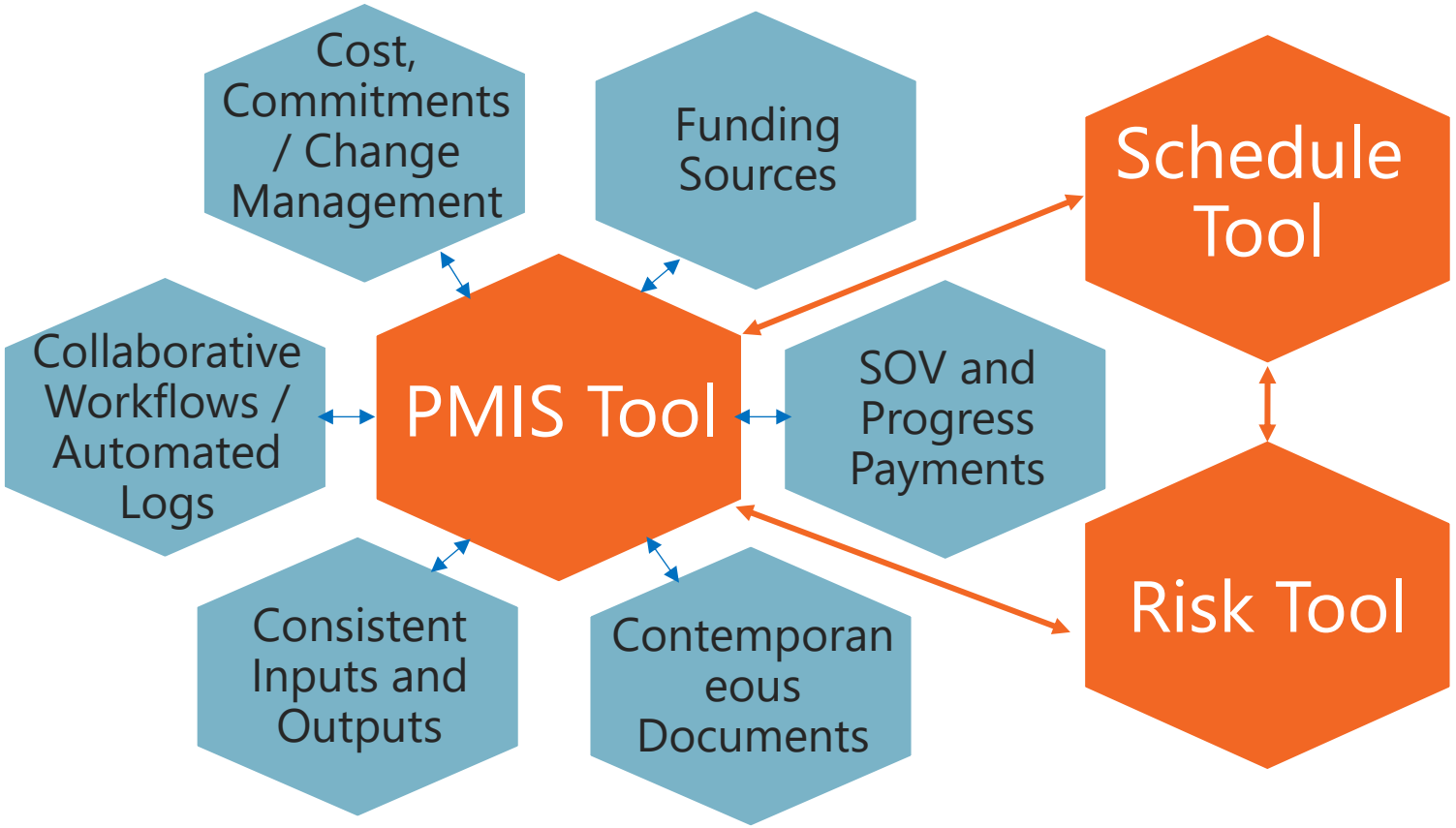
- Budget and time
- Desired functionalities
- Value for money
- Level of integration
- Programmatic consistency
- Achieve reporting objectives

PMIS Survey

Criteria	Most Important	Very Important	Somewhat Important	Important	Not Important
Budget and Time					
Cost *(Sensitivity of the total cost of setting up PMIS + Licenses + Maintenance)*		3	1		
Adherence to existing processes *(How important it is for BSA to use their existing processes in the project delivery)*		1	2	1	
Implementation Go Live Timing *(The speed at which start date of the PMIS when it will be up and running)*	1	1	1	1	
BSA Staffing of ongoing Administrative Support *(How important it is for BSA to hire staff for maintaining PMIS inhouse)*		2		1	1
Desired Functionality					
Project Delivery *(Set up of Project Delivery in the PMIS Tool)*		4			
Cost Management *(Set up of Cost Management in the PMIS Tool)*	1	2	1		
Change Management *(Tracking of Change Management in the PMIS Tool)*		3	1		
Value for Money					
Program Consistency, Reporting, KPIs *(Maintain consistency at project and program levels)*		3	1		
Collaborative PMIS Platform / Optimized Processes *(Set up PMIS for a collaborative environment and revisit internal processes for improved efficiencies in project delivery)*		3		1	
Near Real-Time Reporting *(Customized reports and look ahead in a timely manner)*		1	2	1	
Data Driven Decisions *(Decisions based on information received through PMIS)*		3	1		
Auditability *(Perform regular project audits for adherence to implementation and processes set for project delivery)*	1	2	1		
Integration with other processes / systems (can range from manual to automated)					
Cost System *(Efficient management of program & Project cost tracking and accurate reporting)*	2	2			
Schedule *(Efficient management of program & Project schedule tracking and accurate reporting)*		4			
Risk Management *(Program risk analysis impacting individual projects)*		2	2		
Document Management *(Efficient document storage and retrieval, controlled access, tracking, and workflows management)*		3		1	
Contractor Tools *(Supporting contractor processes with the use of PMIS to provide them timely input to minimize cost and schedule impacts to the project)*		2		2	
Commitments *(Tracking commitments against approved budgets)*		3		1	

Integrated and Collaborative Tool

- **PMIS Tools combine and integrate several functions into a single collaborative platform**
- Streamlined single source inputs remove redundancies
- **Improved utilization of project resources, transparency and timeliness of information**
- There are still multiple tools, such as for scheduling and risk management



Community Engagement & Stakeholder Outreach

Queen City Clean Waters Stakeholders

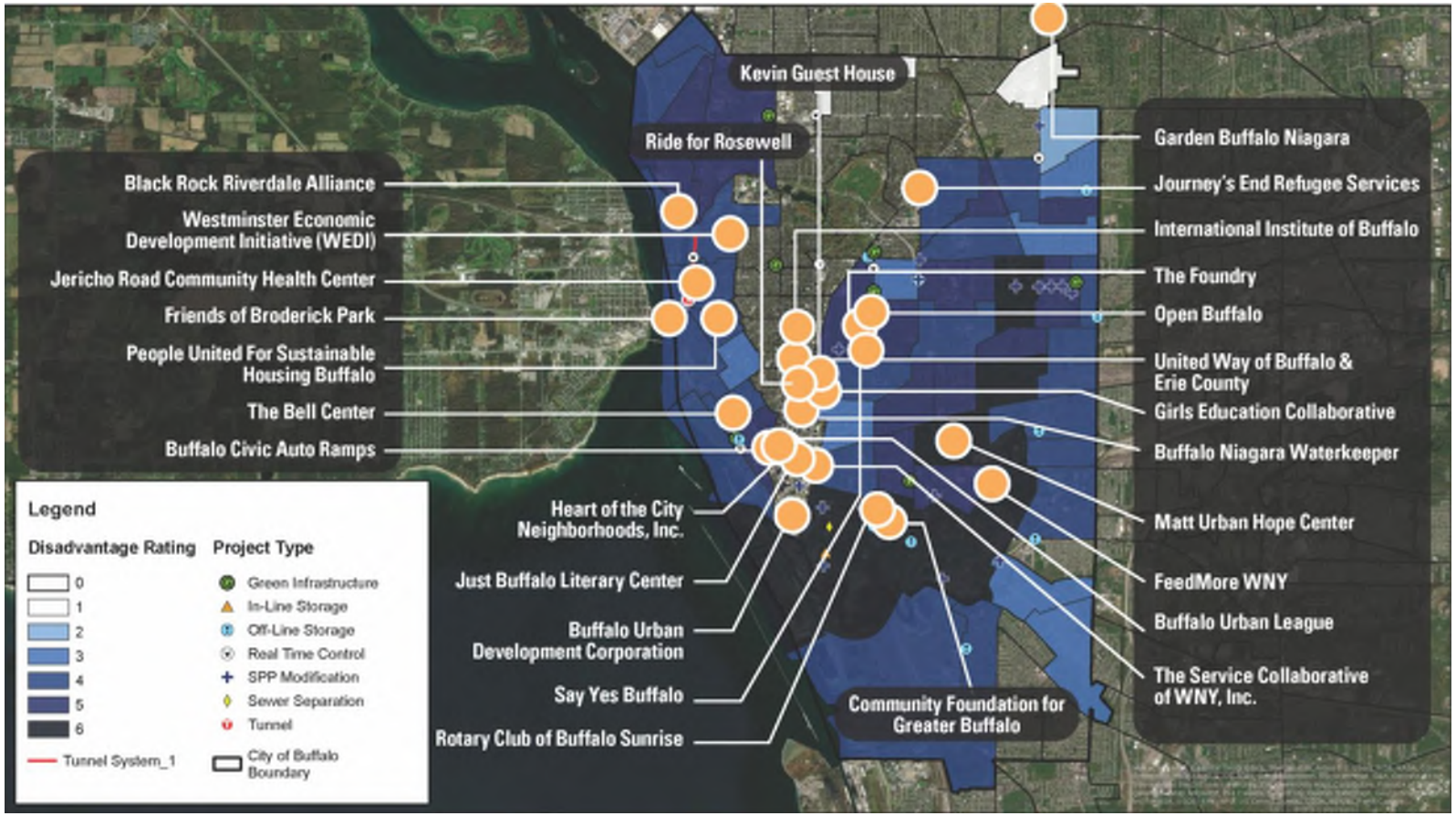
Residents	Delaware, Ellicott, Filmore, Lovejoy, Masten, North, Niagara, South, and University Districts
Local Government Officials	Elected Officials
Community-Based Organizations	Resident advocacy groups, including some in Queen City Clean Water's Stakeholder Advisory Council
Stakeholder Advisory Committee	Northland Workforce Training Center, PUSH Buffalo, Buffalo Urban League, Board of Block Clubs, NAACP, Jericho Road, LISC, Buffalo Niagara Waterkeeper, City of Buffalo Office of Strategic Planning, and Buffalo Center for Health Equity
Businesses	Local businesses that may be affected by construction activities or changes in water rates
Environmental Groups	Organizations focused on water quality and environmental sustainability
City Agencies	Entities responsible for water supply and infrastructure, including parks and recreation, will be involved in implementing the plan

Program Management Impact:
Equity Indicators + Desired Outcomes

1	2	3	4	5	6	7
Community Ownership	Capacity Building	Healthy Communities	Heritage Preservation	Sustainable Wealth Creation	New and Reformed Policy for Sustainable Development	Growth Management and Neighborhood Development

Observation — Discovery — Planning and Application

Partner with Anchor Institutions to Reach the Community



Build a robust **Community Benefits Program** of community partnerships and **Stakeholder Advisory Committee** comprised of community leaders and residents

Accountability + Transparency: Indicators, representation, how are resources distributed and made available

Stakeholder Advisory Committee (SAC)

The purpose of the Stakeholder Advisory Committee (SAC) for the Buffalo Sewer Authority's Queen City Clean Waters Initiative is to serve as a vital bridge between the project team and the diverse communities of Buffalo. The SAC ensures that community perspectives, concerns, and insights are actively incorporated into the initiative's planning, implementation, and evaluation.

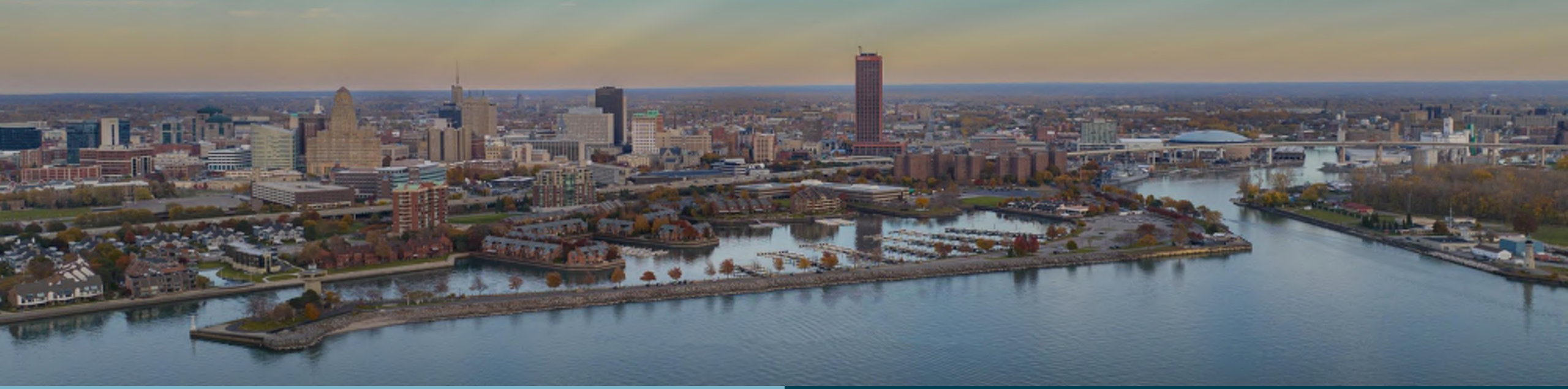
Organizations & Agencies Represented:

- Northland Workforce Training Center
- PUSH Buffalo
- Buffalo Urban League
- Board of Block Clubs
- NAACP
- Jericho Road
- Local Initiatives Support Corporation (LISC)
- Buffalo Niagara Waterkeeper
- City of Buffalo Office of Strategic Planning (OSP)
- Buffalo Center for Health Equity

BSA's Commitment to the Inclusion of DBE/MWBE Firms and Local Workforce

PURPOSE

- Create economic opportunity for Disadvantaged/Minority/ Women – Owned Business Enterprise (D/MBE/WBE) firms, including firms who are new to working with BSA and/or the City of Buffalo
- Promote meaningful teaming arrangements, mentorship, and partnership between established, experienced firms and new and/or smaller firms



Buffalo Sewer wants to ensure construction and professional services contracts deliver a positive economic, environmental, and social impacts for residents.

Companies working with Buffalo Sewer are encouraged to support Buffalo nonprofits through volunteerism or financial contributions to defined community partners. The program will be included in contract terms and compliance monitoring to ensure effective participation.

COMMUNITY PARTNERSHIP PROGRAM

Coming in 2025

Types of Queen City Clean Waters Projects

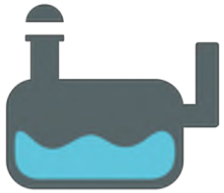
$

Projects to be funded through a combination of:

Federal and state funding administered through NYSEFC and NYSDEC (grants, zero to low interest loans), Environmental Impact Bond, and BSA capital budget

Bird Island Treatment Facility Upgrades

Combined Sewer Offline Storage



Real-time Control Smart Sewers and Sewer Improvements & Modifications

Green Infrastructure (GI)

Community Engagement on Project Benefits, Construction Impacts, and Mitigation Measures

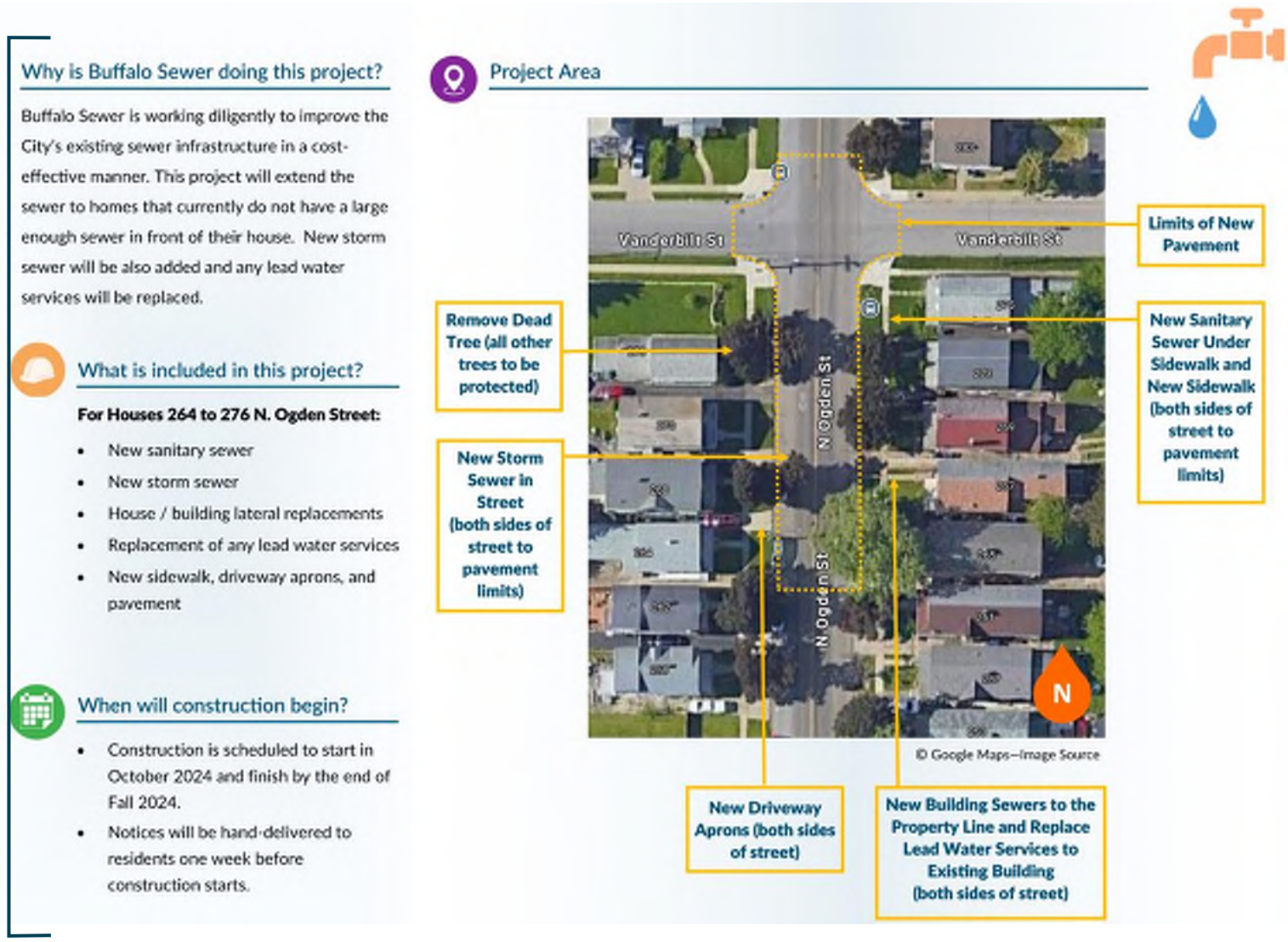
- **Engagement and Outreach early, consistently, and accessible. Meet the community in their community.**
- During construction, residents can expect to see equipment and traffic cones off to one side of the road.
- Temporary disruptions, such as noise and dust, will be minimized as much as possible.
- Sewage odors will NOT be present in homes but may be present outside.

Construction Impacts and Mitigation Measures

- Residents may experience temporary sewer and water service interruptions for a few hours, with advance notifications provided.

- These interruptions will not last days. We will address concerns about explosives, drilling, dust, and air pollution, and manage environmental hazards like asbestos and PCB-laden soils per best practices.

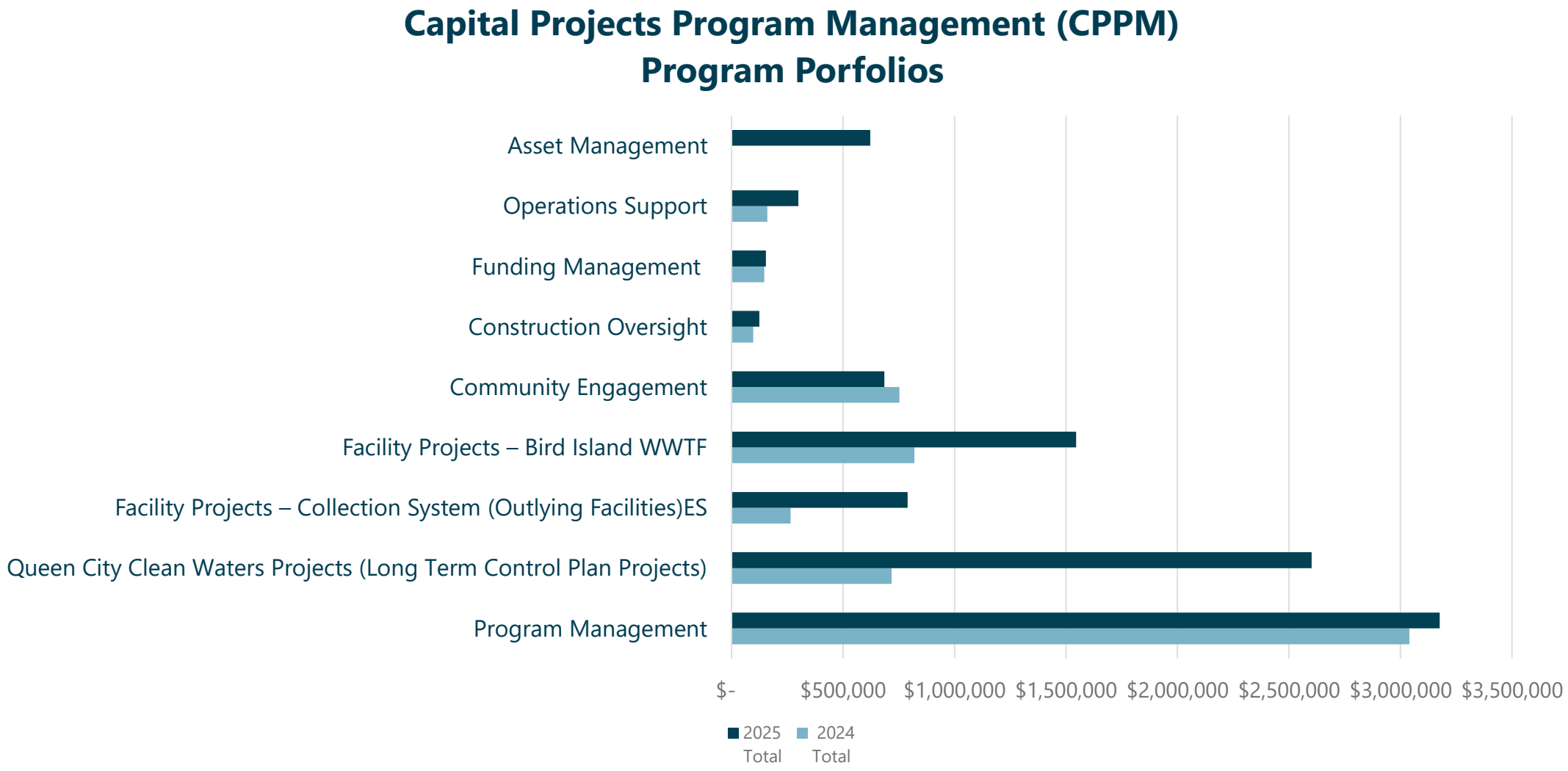
- New traffic patterns will be in place during construction, including:
  - Partial or full road closures
  - Sidewalk closures
  - Limited street parking
  - Possible detours / relocated bus stop



What’s Next?

BSA Capital Projects Program Management

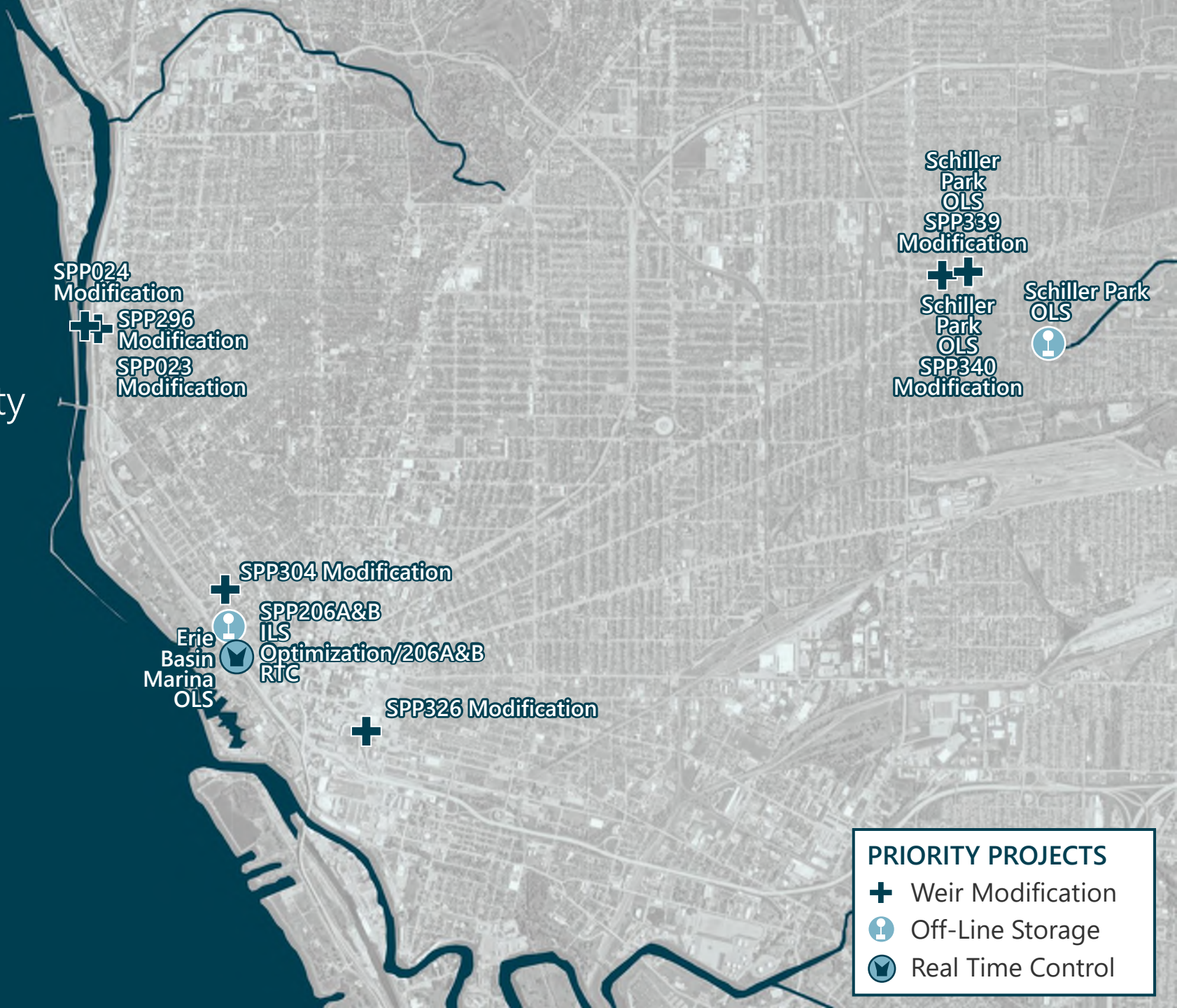
BUDGET – BAR CHART



BSA Capital Projects Program Management

QUEEN CITY CLEAN WATERS COLLECTION SYSTEM 2025 WORK

- Final Design and Bid of Priority SPP Projects
- Off-Line Storage Design
- Progress Next Round of Projects to 30%
- State Funding Applications
- Sewer Maintenance Training
- Asset Management
- Community Partnership Program & Stakeholder Advisory Committee



BUFFALO SEWER AUTHORITY

TYLin

NYWEA
LEADING THE WAY IN WATER QUALITY MANAGEMENT

Thank you.

Rosaleen Nogle, PE, BCEE
rnogle@buffalosewer.org

Walt Walker, PE , ENV SP
walt.walker@tylin.com

Carina Tan, ENV SP
carina.tan @tylin.com

BUFFALO
SEWER AUTHORITY
QUEEN CITY CLEAN WATERS

Request for Proposals from Buffalo Sewer Authority
NEY-LARK AND EDISON-MARTHA OFFLINE STORAGE TA

ase submit to Buffalo Sewer Authority at its Main Office at
38 City Hall, 65 Niagara Square, Buffalo, NY by 10:00 AM loc
ne on Tuesday, March 4th, 2025.

y questions must be received by Rosaleen B. Nogle, PE, BCE
WRE Principal Sanitary Engineer, by Tuesday, February 18,
25 by 3:00 PM at rnogle@buffalosewer.org.

/buffalosewer.org/rfp-sidney-lark-and-edison-martha-offline-storage

RFP: SIDNEY-LARK AND EDISON-MARTHA OFFLINE STORAGE TANKS

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Upcoming Project Opportunities Open House (September 2025)

Proposals for the Buffalo Sewer Authority's **"SIDNEY-LARK AND EDISON-MARTHA OFFLINE STORAGE TANKS"** will be received by the Buffalo Sewer Authority at its Main Office at Room 1038 City Hall, 65 Niagara Square, Buffalo, NY until **10:00 AM local time on Tuesday, March 4th, 2025.**

Any questions must be received by Rosaleen B. Nogle, PE, BCEE, BC WRE Principal Sanitary Engineer, by Tuesday, February 18, 2025 by 3:00 PM at rnogle@buffalosewer.org.

Recording of RFP Pre-Proposal Meeting

BSA RFP SIDNEY-LARK AND EDISON-MARTHA OFFLINE STORAGE TANKS

Addendum No. 1

Addendum No. 2

Addendum No. 3

Appendix A – CSO Storage Tank Flushing Memo

Appendix B – PMT BIM Plan

Appendix C – Sidney OLS Prelim Eng Report

Appendix D – Sidney OLS Environmental Screening Memo

Appendix E – Sidney OLS Subsurface Investigation and Geotech Eval

Appendix F – Sidney OLS Design Table of Contents and Guide Specifications

Appendix G – Sidney OLS Prelim Design Drawings

Appendix H – Sidney OLS 30% Design Considerations and Assumptions

Appendix I – Edison OLS Prelim Eng Report

Appendix J – Edison OLS Environmental Screening Memo

Advertisement to Bid: South Buffalo Pump Station Rehabilitation Project

RFQ for CI Services for Various Capital Projects

HERBERT L. BELLAMY JR. ANNOUNCES HIS RETIREMENT FROM THE BUFFALO SEWER AUTHORITY BOARD

East Delavan Sewer Improvement Project DEIS Hearing & Zoom Meeting

META

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Appendix K – Edison OLS Subsurface Investigation and Geotech Eval

Appendix L – Edison OLS Design Table of Contents and Guide Specifications

Appendix M – Edison OLS Prelim Design Drawings

Appendix N – Edison OLS Design Considerations and Assumptions

Appendix O – Design Requirements for BSA RFPs-2024-10-16

Appendix P – Staffing Worksheet

Appendix Q – BSA EEO Staffing Demographics Form

Appendix R – Cost Proposal

Appendix S – DBE Utilization Plan

Appendix T – MWBE Utilization Plan

BUFFALO
SEWER AUTHORITY

Buffalo Sewer Authority
City Hall Room 1038
Buffalo, NY 14202
716-851-4664

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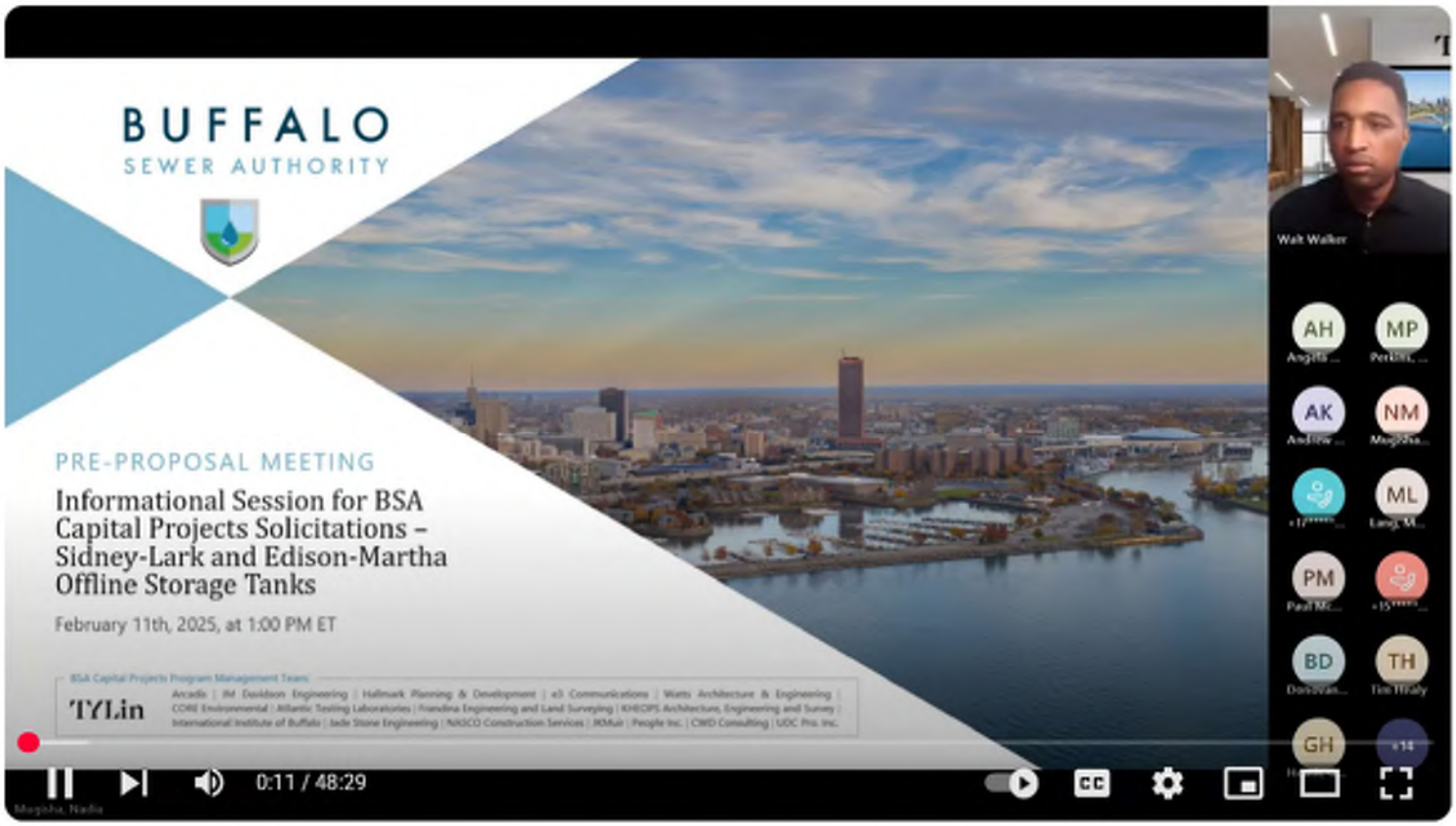

Recording of RFP Pre Proposal Meeting Sidney Lark and Edison Martha OLS Projects 2025 02 11

Buffalo Sewer Authority
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Buffalo Sewer Authority

RFP-Pre-Proposal Meeting: Sidney-Lark and Edison-Martha OLS Projects

Date: 02/11/2025

Attendee	Organization	Email
Rosaleen Nogle (presenter)	Buffalo Sewer Authority	rnogle@buffalosewer.org
Walt Walker (presenter)	TYLin	walt.walker@tylin.com
Nick Freedlander (presenter)	TYLin	nicholas.freedlander@tylin.com
Aria Harris	TYLin	aria.harris@tylin.com
Tatiana Proctor	TYLin	tatiana.proctor@tylin.com
Tim Healy	TYLin	tim.healy@tylin.com
Nadia Mugisha (presenter)	Arcadis	Nadia.Mugisha@arcadis.com
Steve Bigelow (presenter)	Arcadis	Steve.Bigelow@arcadis.com
Dax Blake	Arcadis	Dax.Blake@arcadis.com
Brenna Donovan	Arcadis	brenna.donovan@arcadis.com
Gregory Heath	AECOM	Gregory.Heath@aecom.com
Kate Mignone	AECOM	Kate.Mignone@aecom.com
Michelle Perkins	AECOM	michelle.palmer@aecom.com
Beth Tigue	AECOM	Beth.Tigue@aecom.com
Mark Lang	Black & Veatch	LangM@bv.com
Christopher Ranck	Black & Veatch	RanckCJ@bv.com
Steven Vinci	Brierley Associates	svinci@brierleyassociates.com
Mike Miller	CHA	MMiller@chasolutions.com
Paul McGarvey	GHD	Paul.McGarvey@ghd.com
Robert Lannon	GHD	Robert.Lannon@ghd.com
Rebecca Carmine-Shaw	Hazen and Sawyer	RCarmineShaw@hazenandsawyer.com
George Kansas	Hazen and Sawyer	George.Kansas@hdrinc.com
Heather Landis	Hazen and Sawyer	HLandis@hazenandsawyer.com
Katie Hoek	Hazen and Sawyer	KHoek@hazenandsawyer.com
Mark Lenz	Hazen and Sawyer	MLenz@hazenandsawyer.com
David Barnes	Jacobs	David.Barnes1@jacobs.com
Mary Knox	Jacobs	Mary.Knox@jacobs.com
Zachary Monge	Jacobs	Zachary.Monge@jacobs.com
Angela Hintz	JM Davidson Engineering	ahintz@jmdavidsoneng.com
Jaime Davidson	JM Davidson Engineering	jdavidson@jmdavidsoneng.com
Michael Terrana	JM Davidson Engineering	mterrana@jmdavidsoneng.com
Judy Beckwith	Lu Engineers	jbeckwith@luengineers.com
Andrew Klettke	McMahon & Mann	aklettke@mmce.net
Michelle McEntire	Ramboll	michelle.mcentire@ramboll.com
Christopher Chapman	Wendel	cchapman@wendelcompanies.com

NEW YORK STATE | Department of Environmental Conservation

KATHY HOCHUL
Governor

SEAN MAHAR
Interim Commissioner

SENT VIA EMAIL

February 12, 2025

Rosaleen Nogle, P.E.
Buffalo Sewer Authority
5 Niagara Square #1038
Buffalo, New York 14202

Dear Rosaleen Nogle:

SEQR Lead Agency Designation
CSO053_5.2 Edison Martha OLS
City of Buffalo, Erie County

This is to acknowledge receipt of your notice, dated January 29, 2025, which requested State Environmental Quality Review Act (SEQR) Lead Agency status for the above-noted project. The New York State Department of Environmental Conservation (NYSDEC) concurs that the Buffalo Sewer Authority should act as SEQR Lead Agency, since the environmental impacts of the proposal are primarily of local significance. However, please be aware of the following:

1. Since project activities will involve land disturbance of 1 acre or more, the project sponsor, owner or operator is required to obtain a State Pollutant Discharge Elimination System General Permit for Stormwater Discharges from Construction Activity (GP-0-20-001). This General Permit requires the project sponsor, owner or operator to control stormwater runoff according to a Stormwater Pollution Prevention Plan (SWPPP), which is to be prepared prior to filing a Notice of Intent (NOI) and prior to commencement of the project. More information on General Permit GP-0-20-001, as well as information on how to electronically submit the eNOI form, is available on the NYSDEC's website at www.dec.ny.gov/chemical/43133.html. Information on permitting requirements and preparation of a necessary Stormwater Pollution Prevention Plan (SWPPP) is available on the NYSDEC's website at www.dec.ny.gov/chemical/8468.html.

   The City of Buffalo is designated as an MS4 community. The project sponsor, owner or operator of a construction activity that is subject to the requirements of regulated, traditional land use control MS4 shall have their SWPPP reviewed and accepted by the MS4 community. The "MS4 SWPPP Acceptance" form must be signed by the principal executive officer or ranking elected official from the MS4 community, or by a duly authorized representative of that person, and submitted along with the eNOI to receive NYSDEC approval before construction commences.

2. Portions of New York State regulated freshwater wetlands and their adjacent areas may be located in the project area. Although some limited activities are exempt from permitting, most activities that involve disturbance within a wetland or its 100-foot adjacent area require an Environmental Conservation Law (ECL) Article 24, Freshwater Wetlands permit from the DEC. Information on regulated activities within freshwater wetlands and adjacent areas is available on DEC's website (see Regulated Activities), which contains examples of regulated activities and those exempt from wetland permits.

   DEC's amended Article 24, Freshwater Wetlands Jurisdiction and Classification regulations (6 NYCRR Part 664) went into effect on January 1, 2025. To determine whether the property contains regulated freshwater wetlands the project sponsor must submit a request for a Parcel Jurisdictional Determination (Parcel JD). A Parcel JD is a determination made by DEC whether a property contains regulated freshwater wetlands or adjacent areas within the parcel boundary. Please use the attached link to request a Parcel JD for the project site: https://dec.ny.gov/nature/waterbodies/wetlands/freshwater-wetlands-program/freshwater-wetland-jurisdictional-determination. If you have any problems submitting the Parcel JD request, please email: fwwjurisdiction@dec.ny.gov

   If the property contains regulated freshwater wetlands or adjacent areas, further delineation of the wetland boundaries and a Project Jurisdictional Determination (Project JD) may be required. A Project JD is a determination made by the regional DEC office about whether a proposed activity within a parcel containing regulated freshwater wetlands or adjacent areas requires an Article 24 Freshwater Wetlands permit. Project JD requests should be sent to the regional Bureau of Ecosystem Health (BEH) in the region where the project is located. Regional BEH email addresses and a link to a map of regional offices are also provided on the DEC website using the jurisdictional determination link provided above.

   If regulated freshwater wetlands or adjacent areas are present, all efforts must be made to first avoid disturbing the wetland and adjacent area. If disturbance to the wetland and/or adjacent area cannot be avoided, the project sponsor must submit a Freshwater Wetland permit application and obtain a permit to conduct a regulated activity. In accordance with DEC's Freshwater Wetlands Permit Requirements Regulations (6 NYCRR Part 663), the applicant would need to justify the disturbance, discuss alternatives and minimize impacts as part of the Freshwater Wetlands permit application. More information on application procedures and permit issuance standards is available on DEC's website at: https://dec.ny.gov/regulatory/permits-licenses/waterways-coastlines-wetlands/freshwater-wetlands#Determine.

If you have any questions, please feel free to contact Lisa Connors at 716/851-7165 or Lisa.Connors@dec.ny.gov.

Sincerely,

Lisa M. Czechowicz
Regional Permit Administrator

LDC

Ecc: Damianos Skaros, P.E., RWE, NYSDEC R9
Rob Locey, P.E., DOW, NYSDEC R9
Denine Jackson, E.I.T., NYSDEC R9

BUFFALO
SEWER AUTHORITY

TO: RFP Holders

Date: February 14, 2025

FROM: Rosaleen B. Nogle, PE

SUBJECT: Addendum No. 1 for Sidney-Lark and Edison-Martha Offline Storage Tanks RFP

Affirmation of receipt of this addendum shall be included in the cover letter of your proposal.

- Prospective proposers are reminded to submit a request for a One Drive folder link to upload their digital proposal submissions. Please submit that request to Rosaleen Nogle, PE, BCEE, BC WRE, at rnogle@buffalosewer.org.
- Enclosed find attached presentation and attendance list from the Pre-Proposal Meeting held on Tuesday, February 11, 2025. A recording is available at: https://buffalosewer.org/rfp-sidney-lark-and-edison-martha-offline-storage-tanks/
- Addition on RFP page 6, Section II.A, General Introduction:
    - Include the statement: *As part of this contract(s) scope, the CONSULTANT is expected to coordinate regularly with both THE AUTHORITY and its Capital Projects Program Management Team on items pertaining, but not limited, to: design quality control; monthly cost, schedule, and progress reporting.*
- Clarification on RFP pages 6-7, Section II.B and II.C, Sidney-Lark:
    - Adjacent to the site, THE AUTHORITY has an ongoing Sewer Patrol Point (weir modification) project under design. Recent hydraulic model results indicate that a weir elevation could be raised by one to two feet in that SPP. The CONSULTANT shall be aware that weir elevation modification will need to be considered in the final design elevations of Sidney-Lark OLS/RTC structure, and shall be considered as part of the original scope outlined in this RFP.
- Clarification on RFP page 14, Section F, Cost Proposal
    - The cost proposal shall be submitted in a separate sealed envelope from the technical proposal.
- Include attached new Appendix U: SEQR Lead Agency Designation for Edison-Martha OLS

<u>Responses to questions received:</u>

Q1: Is this RFP a quals-based selection?
A1: Yes, the consultant award will be qualification-based. Review the evaluation criteria in the RFP.

FOR IMMEDIATE RELEASE
February 18, 2025

Contacts:
Earl Wells, e3comms.
716-553-5225
Philip Wells, e3comms.
716-512-3326

BUFFALO SEWER LAUNCHES INTERACTIVE QUEEN CITY CLEAN WATERS INITIATIVE WEBSITE

Site provides local stakeholders and residents opportunity to provide comments to projects across the city; interactive map provides real time updates

BUFFALO, NY— The Buffalo Sewer Authority (Buffalo Sewer) has launched an interactive website for the Queen City Clean Waters Initiative to engage local stakeholders and communities for project input and engagement for the $1 billion initiative to improve local waterways by mitigating combined sewer overflows.

City of Buffalo residents and stakeholders can access the website at https://buffaloqccw.mysocialpinpoint.com/ . The website features information about the initiative, project details, frequently asked questions (FAQs), comment/question sections, and a program timeline.

The website features an interactive platform where users can access the Queen City Clean Waters Initiative survey, which is intended to gain feedback for initiative communication and information dissemination. Users can also communicate directly with Buffalo Sewer on the website's comment platform to ask questions or provide feedback/ideas for the initiative.

An interactive website map allows users to access project information, timeline, and location. Users can provide comments on projects affecting their neighborhood and ensure community members are discussed and prioritized in these community betterment investments.

“An integral component of this initiative is engagement and interaction with the local community; we especially need to hear most from those neighborhoods that have experienced the negative impacts of combined sewer overflows and the burying of waterways,” said Rosaleen Nogle, PE, BCEE, BC WRE Principal Sanitary Engineer, Buffalo Sewer. “Buffalo Sewer encourages residents to participate in our engagement process to enhance our role in protecting public health and the environment.”

BUFFALO
SEWER AUTHORITY

TO: RFP Holders

Date: February 20, 2025

FROM: Rosaleen B. Nogle, PE

SUBJECT: Addendum No. 2 for Sidney-Lark and Edison-Martha Offline Storage Tanks RFP

Affirmation of receipt of this addendum shall be included in the cover letter of your proposal.

- A one-week extension of the proposal submission deadline to **Tuesday, March 11, 2025 at 10:00 AM** local time is granted.
    - Interviews with short-listed consultants shall still occur the Week of March 24, 2025. Short-listed consultants shall be notified the Week of March 17, 2025.
- Digital and hard copies of the technical proposal and cost proposal are to be provided.
    - As stated in the RFP, the consultant shall contact Ms. Rosaleen Nogle, PE, BCEE, BC WRE (rnogle@buffalosewer.org) to request a OneDrive folder link to upload their digital technical and cost proposals.
    - Seven (7) hard copies of the proposal shall be provided.

BUFFALO
SEWER AUTHORITY

TO: RFP Holders

Date: February 28, 2025

FROM: Rosaleen B. Nogle, PE

SUBJECT: Addendum No. 3 for Sidney-Lark and Edison-Martha Offline Storage Tanks RFP

Attached Addendum No. 3 provides responses to all proposer questions received. Affirmation of receipt of this addendum shall be included in the cover letter of your proposal.

Buffalo Sewer and the Program Management Team (PMT) look forward to coordinating with the awarded Consultant(s) on knowledge transfer and onboarding to get familiar with the preliminary design as soon as possible, and to answer additional questions the Consultant may have.

Since the Queen City Clean Waters (QCCW) program implementation launched in the past 12 months, the Program Management Team has aggressively sought to accelerate delivery of the consent decree projects. We recognize aspects of the preliminary designs in this first year of program implementation may be less detailed than other preliminary project designs, and a significant amount of work remains to achieve the final design consent decree dates. The PMT's mission is to deliver the overall QCCW program. It is the expectation that the selected Consultant(s) will be a contributing partner with Buffalo Sewer and the PMT in that mission. We seek to foster a collaborative approach recognizing that teamwork will lead to the most successful delivery. Thus, we anticipate the proposing consultants will describe their plans to partner with Buffalo Sewer, the PMT, other selected designers (as needed), and other stakeholders to successfully deliver the Edison-Martha OLS and the Sidney-Lark OLS/RTC in the timeframe prescribed in the consent decree schedule.

Administrative:

Q1	*Page 18-19 – Section 8 – Consultant to Provide affirmation of affirmative steps. Can you please clarify what is required as part of the RFP submission in addition to the Utilization Plan in Appendix S and T?*
A1	If the consultant cannot meet Buffalo Sewer's specified MWBE utilization goals, provide an explanation of good-faith efforts as to why. Appendix S and T must be included in the proposal.
Q2	*In regard to the BSA's RFP for "Sidney-Lark and Edison-Martha Offline Storage Tanks," Page 13 requests an EEO plan (Appendix Q) form for both the project team and firm. We would like to respectfully submit the following questions related to the EEO form requirement: For the project team EEO form, should*

	we include only those staff we are including resumes for or any potential staff that could possibly work on the project throughout its duration?
A2	EEO form (Appendix Q) shall be provided by the prime Consultant and subconsultants - both project team members and the firm.
Q3	*Also, do subconsultants need to provide an EEO plan form for both their project team members and firm, or is Appendix Q only applicable to the prime consultant?*
A3	EEO form (Appendix Q) shall be provided by the prime Consultant and subconsultants - both project team members and the firm.

Program Management Team Role:

Q4	*Addendum #1 dated February 14 - "Addition on RFP page 6, Section II.A, General Introduction: Include the statement: As part of this contract(s) scope, the CONSULTANT is expected to coordinate regularly with both THE AUTHORITY and its Capital Projects Program Management Team on items pertaining, but not limited, to: design quality control; monthly cost, schedule, and progress reporting." Please clarify what regular coordination means in terms of frequency of above items.*
A4	The Program Management Team will serve as an extension of Buffalo Sewer in design quality reviews, schedule/cost management, and stakeholder/agency communications. Regular coordination includes BSA/PMT attendance in monthly design progress meetings, and regulatory agency meetings. A formal process will be developed for the CONSULTANT to submit requests for project information to the PMT.
Q5	*Will consultant selected be managed by TYLIN and Arcadis throughout remainder of the project design stages?*
A5	The Program Management Team will serve as an extension of Buffalo Sewer in design quality reviews, schedule/cost management, and stakeholder/agency communications.
Q6	*Who is responsible for running project meetings the "consultant" or the "program manager"?*
A6	The Consultant is responsible for leading project meetings.

Contractual:

Q7	*Can you please clarify whether construction services are included?*
A7	Construction administration/inspection services are not included in this RFP.
Q8	*Design professional services during construction is not noted in the RFP. Appendix O, Design Service Requirements – Section 2.03 refers to design professional services during construction and Section II in the RFP.*
A8	Construction administration/inspection services are not included in this RFP. Only Design and Bid Phase services are included at this time. Appendix O, Section 2.03 does not apply.
Q9	*There are no CA/CO services in RFP, can future CO services be used for the DBE percentage goals for the project.*
A9	The consultant shall aim to meet Buffalo Sewer's MWBE utilization goals in the current version of the scope/contract, which is Design and Bid Phase services.

General:

Q10	*Based on review of the RFP and appendices it appears that Xylem developed preliminary control logic for the Sidney-Lark and Edison-Martha tank inlet and outlet gates. Can BSA confirm that Xylem will continue to provide control logic as part of the PMT during final design?*
A10	Xylem is contracted directly with Buffalo Sewer and will continue to provide control logic.
Q11	*Does the final design consultant need to carry the costs associated with work by Xylem or will Xylem contract directly with BSA?*
A11	No. Xylem is contracted directly with Buffalo Sewer.
Q12	*Appendix N states that easement coordination will be started by the PMT. Will responsibility for easements / easement coordination remain with the PMT or will this be assumed by the final designer?*
A12	The Program Management Team will lead easement coordination, with support from the CONSULTANT on agency meetings and design-related input.
Q13	*Confirm the availability and format of the survey data for the two sites as discussed in Appendix M Edison OLS Prelim Design Drawings*
A13	Yes, survey data will be provided to awarded consultant.
Q14	*For the remote sites, does BSA want Radio or SCADA? If radio, has a radio path survey been completed?*

A14	For remote sites like the OLS/RTC projects, Buffalo Sewer uses cellular modems to send signals to Ovation system which is centralized at Bird Island WWTF.
Q15	*Does BSA have a preferred integrator, or will the integrator be selected during the bidding process?*
A15	Buffalo Sewer currently has a sole source contract with Emerson for integration services into its Ovation system. The Consultant shall coordinate with Emerson during the design phase for integration costs that will be set allowance amount as a construction bid line item.
Q16	*Grant/Loan Proposal Services – How many grant/loan proposal packages should be assumed for equal proposal pricing between proposers?*
A16	Assume up to three (3) funding packages.
Q17	*Preliminary Design Reports – Can the comments (and any responses) from EFC/DEC on the PERs be shared during bidding for our understanding?*
A17	This can be provided to the awarded consultant.
Q18	*Page 6 – the RFP indicates the project will involve the "Integration of advanced monitoring and control systems to optimize performance and reliability." Can BSA/PMT expand on what will be required to be provided by the selected consultant so we can price accordingly?*
A18	The Consultant is responsible for instrumentation & controls design. The Program Management Team will coordinate information related to control logic.
Q19	*Page 11, Section J Community Partnership Program states that it is expected that the Consultant discuss "…commitment to a community partnership to ensure a meaningful Community Partnership Program is incorporated into this contract." The Section also mentions financial contributions, creating generational wealth and that The Authority is in the process of finalizing criteria for qualifying Beneficiaries (community partners)." Can the Authority provide more details on the partners and examples that the PMT or other Consultants are doing as part of this program?*
A19	Beneficiaries (Community Partners) shall include: • A non-profit organization based in City of Buffalo that has established and maintains valid nonprofit status under Internal Revenue Code Section 501(c)(3), as amended, along with all applicable rules and regulations. • Public schools and colleges in the Buffalo Sewer Authority's Service Area. The Community Partnership Program was inspired by Louisville MSD's Community Benefits Program and San Francisco PUC's Social Impact Program. Compliance documents will be made publicly available in Spring 2025.

Q20	*Referring to the geotechnical report, it doesn't provide a deep foundation system recommendation. Will that be provided, driven piles etc.?*
A20	The Consultant is responsible for completion of the geotechnical design, including review and acceptance of the geotechnical investigations provided.
Q21	*Has the grant funding program been secured for these two sites yet? Appears initial outreach might have been started by program manager since the attachments for 30% could be used in funding proposal.*
A21	Funding has not been secured. The Program Management Team will lead the coordination of the grant funding process. The Consultant shall assume to prepare grant/loan proposal packages, attend regulatory meetings, provide design-related documentation, and coordination as needed.
Q22	*Will the 30% level CAD files including survey be provided to consultant?*
A22	Yes, CAD and other project files will be provided to the awarded consultants.
Q23	*The RFP calls for the Sidney-Lark OLS to include odor control (see RFP, C. Contract A, Sidney-Lark OLS Scope of Work, Alternative 1). The Sidney-Lark OLS drawings (Appendix G) show a 30-in. vent for tank ventilation with no odor control shown. The RFP calls for the Edison-Martha OLS to include odor control (see RFP, E. Contract B, Edison-Martha OLS Scope of Work). The Edison-Martha OLS drawings (Appendix M) do not depict tank ventilation or odor control. Please clarify if odor control is required for both the Sidney-Lark and Edison-Martha OLS tanks.*
A23	Odor control is part of the scope to be further evaluated during detailed design.

Edison-Martha OLS:

Q24	*If odor control is required where should the odor control equipment be located? For the Edison- Martha tank Appendix N states that space in the Field House may be able to be repurposed for tank needs. Will there be enough space available to house odor control equipment in addition to power, controls, and other equipment that may be needed to support tank operation?*
A24	If required, the Field House can be utilized, and based on the equipment, could potentially be expanded upon. The primary objective of the Parks department is to leave one (1) building at the site. Utilization of the Field House must be coordinated by the Final Designer with the City of Buffalo Department of Public Works.
Q25	*Temporary construction easement and permanent easements are shown as 10 ft and 25 respectively, on sheet G-04 of the Edison-Martha OLS Design drawings. Should the temporary easement be 25 ft and the permanent easement be 10ft?*

A25	The proposed permanent easement on the north side of the Charter School is 25-ft wide to allow permanent access to the proposed 48" diameter sewer that falls within the Charter School of Inquiry's property. The proposed permanent easement on the south side of the School is 25-ft wide to allow permanent access to the proposed 24" diameter sewer and MH#3 that fall within the Charter School of Inquiry's property. The 10-ft wide temporary easements on the north and south sides of the School are for construction use, only.
Q26	*Is the field utility building for the Edison-Martha OLS an existing structure? If so, could BSA provide internal photos/dimensions of the field utility building? Is there a designated space allocated for the Edison-Martha OLS electrical equipment?*
A26	Yes, the Field House is an existing structure. Yes, There is a specific electrical room that has some current available capacity. This space could be used or expanded upon for the electrical equipment. Photos are included in this Addendum, as new Appendix X: Photos of Field House at Edison-Martha OLS Site
Q27	*Appendix N – Edison-Martha Design Considerations: Section 1.2 – DEC submitted responses to PER 12/6/24 – Can BSA/PMT provide the responses and any information that will affect the design?*
A27	PMT will provide PER responses to the Final Designer upon award for both Edison-Martha and Sidney-Lark. The primary focus of the NYSDEC comments was for Alternative Analysis and did not affect the OLS design.
Q28	*Section 2.1 – Will the consultant be responsible to incorporate demolition of park features?*
A28	Yes, the Consultant will be responsible for the portion of the park that the OLS tank will affect.
Q29	*Section 2.1 - Please provide the Waterline Design drawings so that the Consultant can define the limits of the accelerated portion of the OLS tank design infrastructure.*
A29	The Program Management Team (PMT) will provide waterline design information / drawings to the Consultant after award. Currently the PMT is coordinating with Buffalo Sewer and City Department of Public Works (DPW) on options for the waterline design that could reduce the impact of the Consultant's design.
Q30	*Item 3 on page i indicates that the field house may be repurposed for needs of the tank and that it may also need code improvements.*
A30	Yes, that is correct.
Q31	*Please confirm whether the field house will be used and also provide drawings so we can identify the scope/budget for any other improvements.*

A31	PMT will provide Field House drawings to the Final Designer upon award. Currently the PMT is coordinating with BSA and DWP on options for the Waterline Design in the Field House that could reduce the impact of design to be provided by the Final Designer.
Q32	*Section 2.2 – Charter School coordination – please provide additional information on the status of easements and the coordination of the haul road for construction traffic.*
A32	Easement coordination is in progress. PMT is taking the lead, and the Consultant shall support these efforts. It is currently in the early assessment stage.
Q33	*How is the selected Consultant expected to support easement efforts other than providing design drawings?*
A33	The Consultant is expected to complete the OLS tank design. As a part of this scope, the site logistics plan for contractor bidding, haul road, construction staging, laydown areas, etc. should be reviewed and coordinated with the PMT on the easement coordination. The PMT is leading easement coordination and easements are currently undergoing assessment. The Consultant is expected to provide support on these efforts where necessary.
Q34	*What are the requirements for stormwater design and will this be coordinated/incorporated into the overall Roosevelt Park Design?*
A34	Civil site improvements for the Project include but are not limited to stormwater management, landscaping, erosion and sediment control, and water main replacement. Civil site improvements are the responsibility of the Consultant and should be coordinated with the Parks Department.

Sidney-Lark OLS/RTC:

Q35	*Sidney RTC scope suggests a "house" for electrical components but also later requires exterior electrical control panels. Please clarify if a house is required for scoping purposes.*
A35	An exterior weatherproof electrical panel will be required; no house.
Q36	*How will BSA/PMT decide whether Sidney-Lark solution will be 0.85MG tank or an RTC – is it dependent on DEC approval of RTC concept?*
A36	Yes - it is dependent on DEC Approval.
Q37	*Appendix G - Sidney-OLS-Prelim-Design-Drawing C4 shows a weir elevation 1.1 feet above the invert of the Humboldt Parkway sewer – what is dry weather flow/depth in this interceptor?*

A37	See attached new Appendix W: Raw Flow Data for the Humboldt Parkway Sewer and Scajaquada Tunnel Interceptor (Excel spreadsheet)
Q38	*Regarding Sidney Lark, has coordination between NYSTA regarding the Kensington Expressway Project been established for this project with BSA. Projects appear to have overlapping limits.*
A38	Buffalo Sewer will remain in contact with New York State as both projects continue to develop.
Q39	*How was the weir in Humbolt Parkway established? Appears dry weather flow will be entering OLS. Can the weir be raised for just wet weather?*
A39	Modeling suggests the weir cannot be raised to meet the prescribed level of control for overflow compliance.
Q40	*Regarding RTC Sidney Lark - What volumes are in the 84" of Humboldt parkway? How much inline storage is available in the 84" Humboldt sewer?*
A40	See attached new Appendix W: Raw Flow Data for the Humboldt Parkway Sewer and Scajaquada Tunnel Interceptor (Excel spreadsheet)
Q41	*Regarding RTC Sidney Lark – Can the basis of design documents similar to the OLS documents for this site area be provided to consultant for review?*
A41	See attached new Appendix V: Sidney-Lark RTC 30% Design Considerations and Assumptions

- Clarification on RFP page 10, Section II.F, Design Services Schedule
  - The project design milestone schedule as described in the table on RFP page 10 shall remain applicable for Edison-Martha OLS.
  - The **project design milestone schedule for Sidney-Lark** is as follows:

60% Design Plans, Specifications, and OPCC	Friday, April 10, 2026
90% Design Plans, Specifications, and OPCC	Friday, November 28, 2026
Final Construction Documents and OPCC	Friday, March 19, 2027

TYLin | Greeley and Hansen Water Solutions

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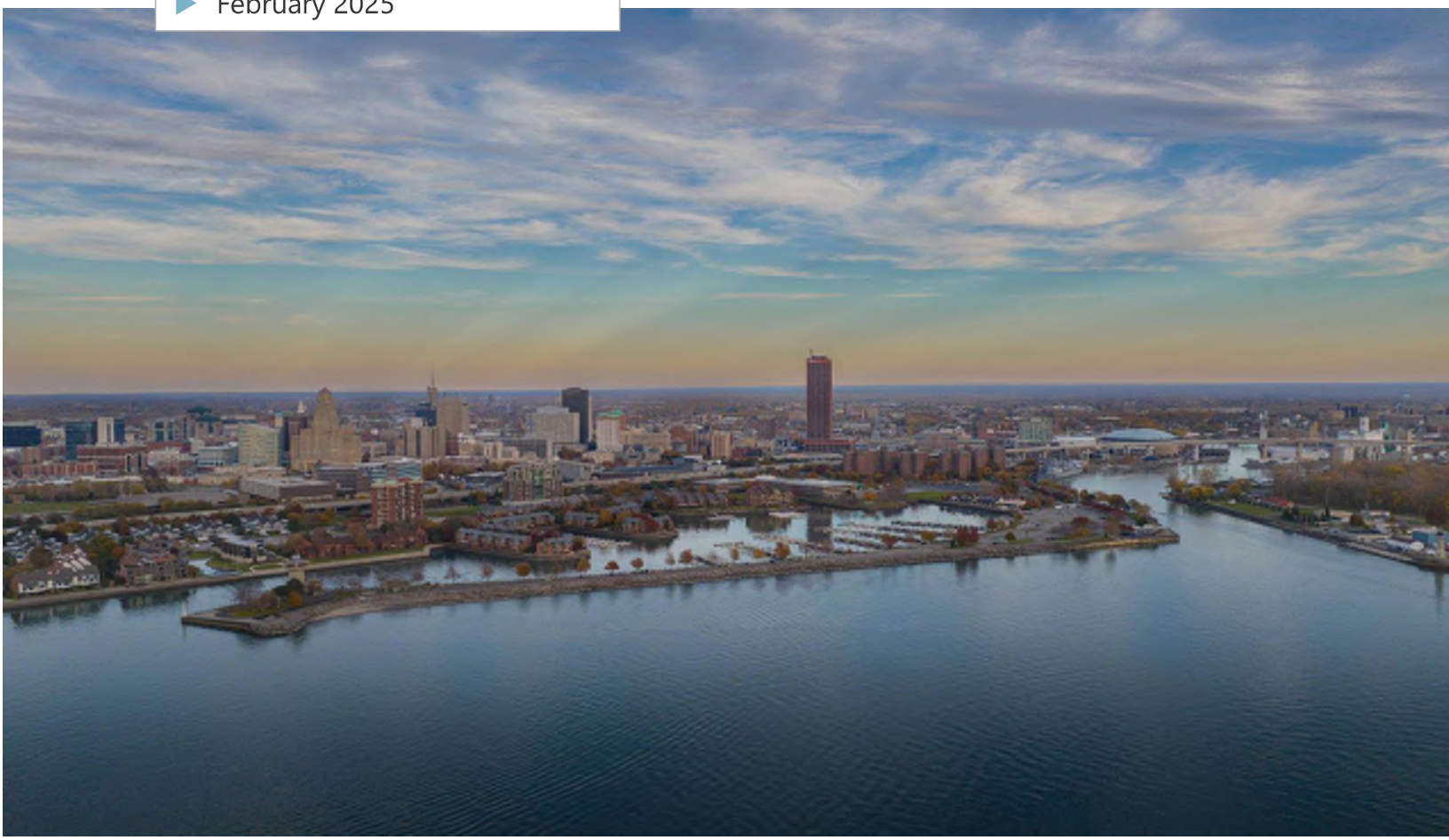
Appendix V: Sidney RTC 30% Design Considerations and Assumptions

February 2025



BSA Capital Projects Program Management Team:

TYLin | Greeley and Hansen Water Solutions

Arcadis | JM Davidson Engineering | Hallmark Planning & Development | e3 Communications | Watts Architecture & Engineering | CORE Environmental | Atlantic Testing Laboratories | Frandina Engineering and Land Surveying | KHEOPS Architecture, Engineering and Survey | International Institute of Buffalo | Jade Stone Engineering | NASCO Construction Services | JKMuir | People Inc.

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1.2 Updates to PER ii

SECTION 1 INTRODUCTION

1.1 Objective

The Preliminary Engineering Report (PER) for the Sidney Offline Storage (OLS) Tank was prepared for the Buffalo Sewer Authority (BSA) by TYLin (Greeley and Hansen Water Solutions) on June 14, 2024. Following the 30% design phase, and coordination with New York State Department of Environmental Conservation (DEC), the project has been modified, eliminating OLS and replacing it with a Real Time Control (RTC) structure that connects the 84-inch sewer in Humboldt Parkway with the 90-inch Scajaquada Tunnel Interceptor. Therefore, the goal of this technical memorandum is to provide an update to the major project components documented in the PER.

1.2 Updates to PER

The primary update to the PER is the change in project scope from OLS to RTC. As the design of the OLS progressed it became clear that the primary benefit provided by the OLS tank was the creation of the interconnection between the 84-inch sewer in Humboldt Parkway and the 90-inch Scajaquada Tunnel Interceptor. Collection system modeling later confirmed that the OLS tank could be replaced with the RTC structure while maintaining the Combined Sewer Overflow (CSO) Long Term Control Plan (LTCP) specified frequency of CSO activations.

The major components of the RTC solution include

- RTC Structure at the intersection of Humboldt Parkway and Sidney Street. A cast-in-place concrete structure is envisioned to be constructed around the existing 84-inch sewer. The RTC Structure would include level monitoring equipment as well as two, 48-inch square automated gates. The gates would connect the existing SCADA network to provide remote control and allow for the balancing of wet weather flow between the 84-inch sewer in Humboldt Parkway and the 90-inch Scajaquada Tunnel Interceptor. Gates, actuators and level monitoring equipment will all be below grade in a structure within a roadway.
- An above grade panel will be provided outside of the roadway and allow BSA access to the controls and associated components of the RTC system (PLC, SCADA connection equipment, etc.).
- A 48-inch sewer will be constructed via open-cut installation from the RTC Structure approximately 770-feet to the intersection of Sidney and Lark Streets and then north on Lark Street. Terminating at a vortex drop structure to facilitate connection to the Scajaquada Tunnel Interceptor. The peak flow rate of 75 million gallons per day (MGD) is anticipated in this sewer based on collection system modeling.
- A precast circular manhole is anticipated to be used to house the vortex drop insert and facilitate the connection to the Scajaquada Tunnel Interceptor.
-

APPENDIX W: (Sidney-Lark) Raw Flow Data for the Humboldt Parkway Sewer and Scajaquada Tunnel Interceptor

See attached Excel spreadsheet

APPENDIX X: Photos of Field House at Edison-Martha OLS Site

North side of Field House

North side of Field House

South side of Field House

Storage room on south side of Field House (potentially available)

Storage room on south side of Field House (potentially available)

Storage room on south side of Field House (potentially available)

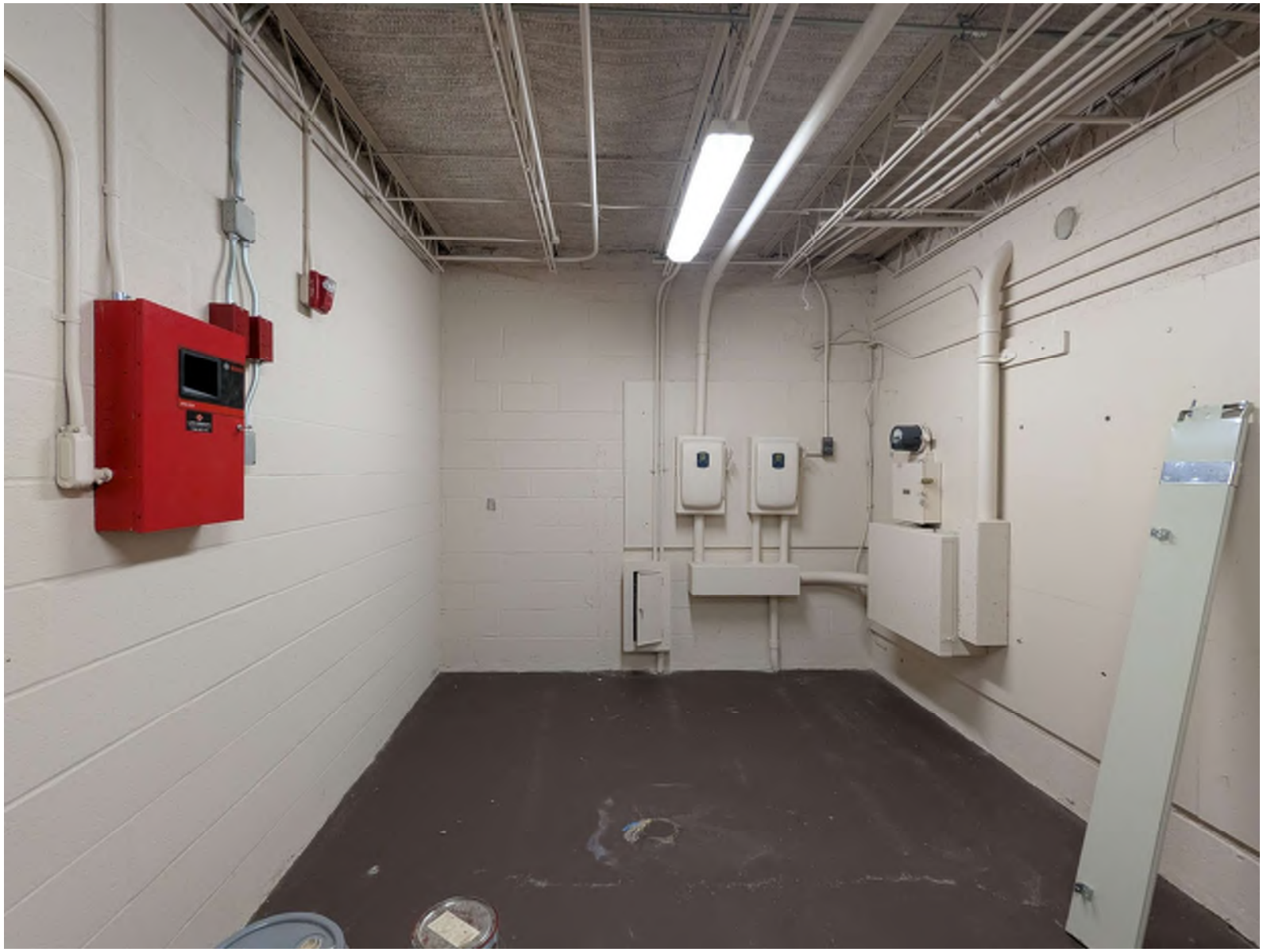
Valve Room connected to storage room on south side of Field House (available)

Valve Room connected to storage room on south side of Field House (available)

Valve Room connected to storage room on south side of Field House (available)

Electrical Room connected to storage room on south side of Field House (available)

Electrical Room connected to storage room on south side of Field House (available)



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TYLin

2025 NYWEA GREATER BUFFALO ENVIRONMENTAL CONFERENCE

Queen City Clean Waters: Leveraging Infrastructure Projects into Community Investment

Rosaleen Nogle, PE, BCEE
Principal Sanitary Engineer, BSA

Walt Walker, PE, ENV SP
TYLin Vice President, Equity Practice Leader
BSA Capital Projects Program Manager

NYWEA
LEADING THE WAY IN WATER QUALITY MANAGEMENT

Program Goals

- Continuing Buffalo Sewer's 90-year mission to protect public health
- Meet all state + federal regulations
- Deliver the Buffalo Sewer's capital projects and Long-Term Control Plan more efficiently, for a more resilient Buffalo
- Manage and Coordinate the delivery of all projects and subprograms
- Optimize interactions and coordination between projects
- Enhance relationships between capital and O&M staff, and the public/community
- Improve customer satisfaction, creating more opportunities for public participation and community engagement
- Standardization of tools, processes and execution across all Buffalo Sewer projects/programs
- Identify and advance specific programmatic opportunities to promote Buffalo policies and strategic priority goals, including financial stability, transparency and accessibility to the public

1994

USEPA CSO Control Policy Issued (Required Development of LTCP)

2004

Submitted Initial LTCP to New York State Department of Environmental Conservation (NYSDEC)

2007

NYSDEC/USEPA Request Additional Evaluations

2009

Negotiation of Consent Decree Begins

2012

Submitted LTCP Update to USEPA/ NYSDEC (as directed by regulatory agency

2014

Final LTCP Report Submitted to USEPA/NYSDEC

2022

Revised collection system model is approved

2023

QCCW (51 proposed projects) submitted to NYSDEC

LTCP Optimization Approach

Globally Coordinated Control Strategy

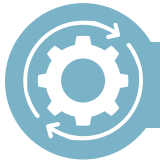
Real time control (RTC) sites collaborate to prevent overflows and reduce peak flows, regardless of local conditions.

System Evaluation Considerations and Constraints

- Property ownership
- Underground contamination concerns
- Gravity flow vs. pumping
- Prioritization of sewer patrol points (SPP) with low activation requirements and high overflow in baseline projects
- Potential coordination

Original Projects Considered

77 projects including In-line (ILS) and Off-line Storage (OLS), Green Infrastructure, Sewer Separation, and Sewer Patrol Point (SPP) Modification

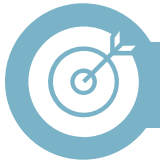


Optimization Rounds

- Project alternatives per SPP
- Full system optimization
- Minimizing cost while achieving compliance

Tools Used

Cloud computing for alternatives analysis



Outcome

51 projects identified as Selected Alternatives

What does that mean for present and future?

- Changing Dynamics with Consultants and the Public
- Centering Public Participation and Community Engagement in the LTCP
- Graying our Green: Concentrating Flows to Increase Affordability
- Greening our Gray: Place Making Instead of Camouflage
- Globalized System Logic Continuous System Monitoring
  - Constant Improvement
  - Commitment to Smart System
- Holistic and watershed thinking over individual CSO
  - Informed by Individual CSO Needs
    - Globalization Opportunities
    - City owned lands
      - Parks, Vacant Lots, Right of Ways
- Synergistic Thinking

Queen City Clean Waters (QCCW) – Mission and Vision

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QUEEN CITY CLEAN WATERS

VISION

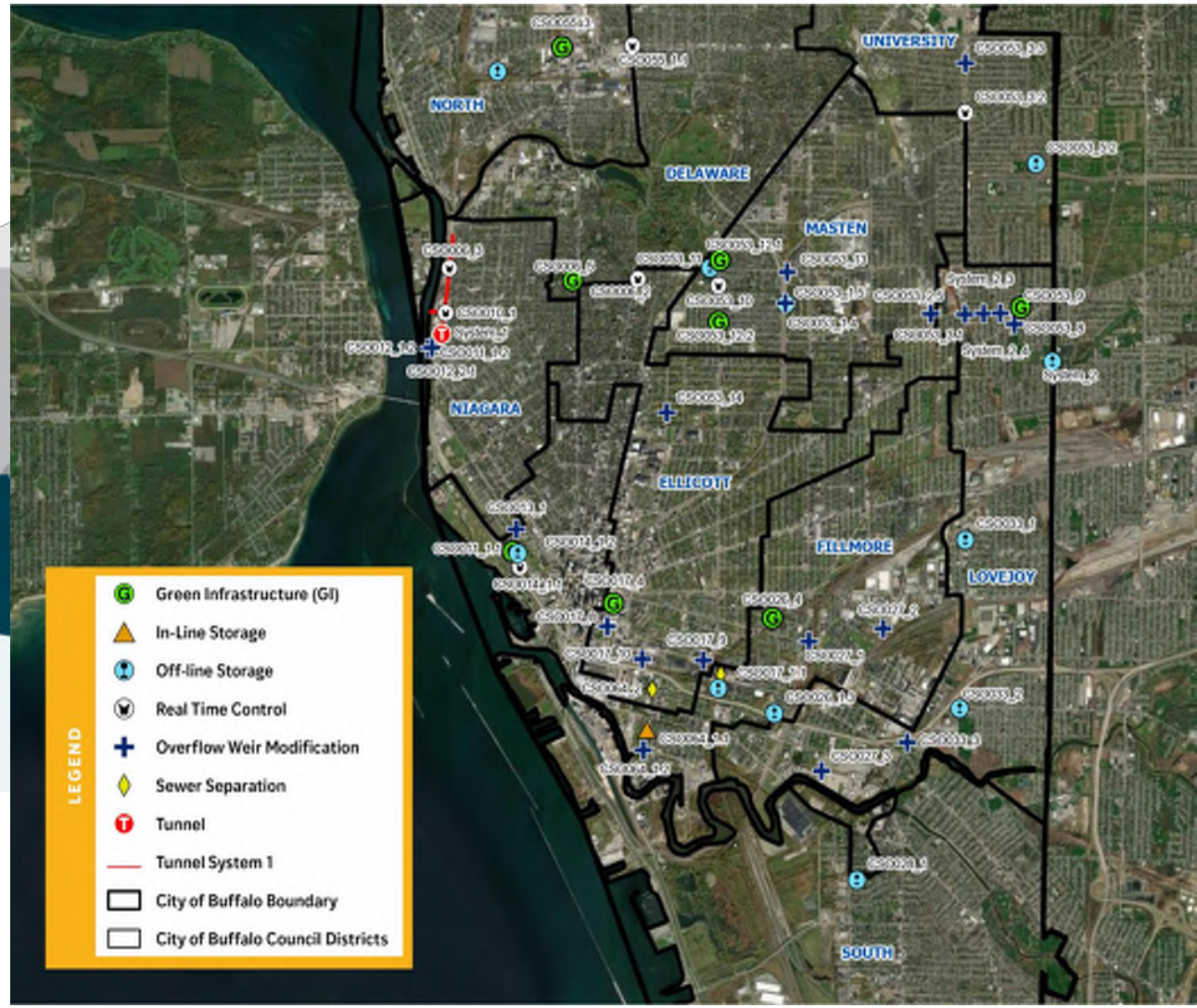
Clean waters and a resilient Buffalo.

MISSION

To safeguard public health and the environment while fostering strong community partnerships, creating meaningful workforce opportunities, and driving lasting economic impact for future generations in Buffalo.

Queen City Clean Waters

PROGRAM OVERVIEW



Types of Queen City Clean Waters Projects

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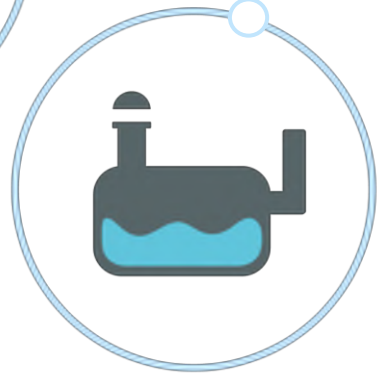
Projects to be funded through a combination of:

Federal and state funding administered through NYSEFC and NYSDEC (grants, zero to low interest loans), Environmental Impact Bond, and BSA capital budget

Bird Island Treatment Facility Upgrades



Combined Sewer Offline Storage

Real-time Control Smart Sewers and Sewer Improvements & Modifications

Green Infrastructure (GI)

QCCW Brand Media Launch Event

October 16, 2024

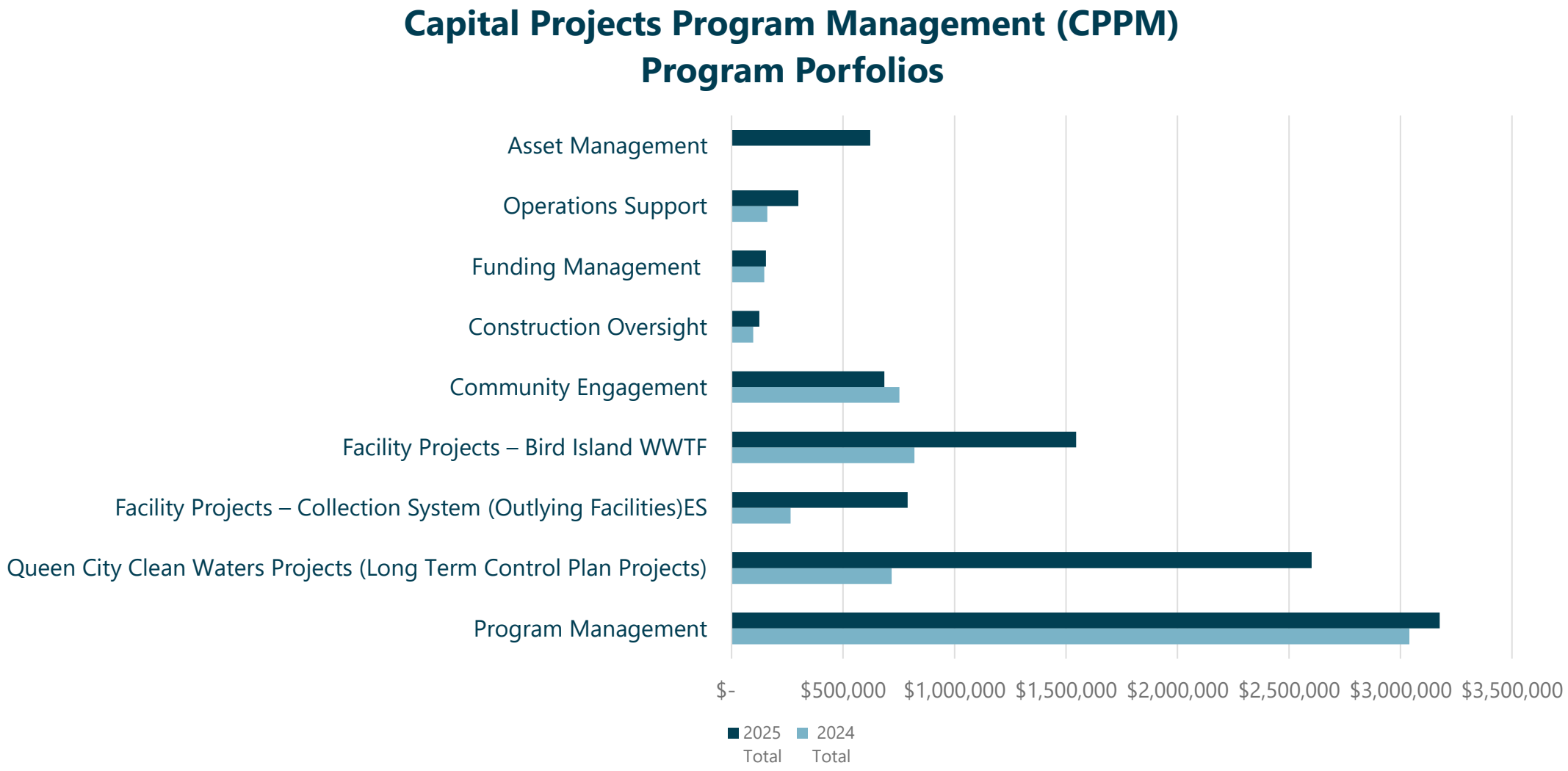
Program Management

PROGRAM PORTFOLIO AT A GLANCE

- General Program Management
- Queen City Clean Waters Collection System Projects
- Queen City Clean Waters Facilities Projects – Outlying Stations
- Queen City Clean Waters Facilities Projects –WWTP
- Community Partnerships & Public Communications
- Procurement and Workforce
- Funding
- Operations Support
- Asset Management
- Program Controls + PMIS
- Standard Operating Procedures

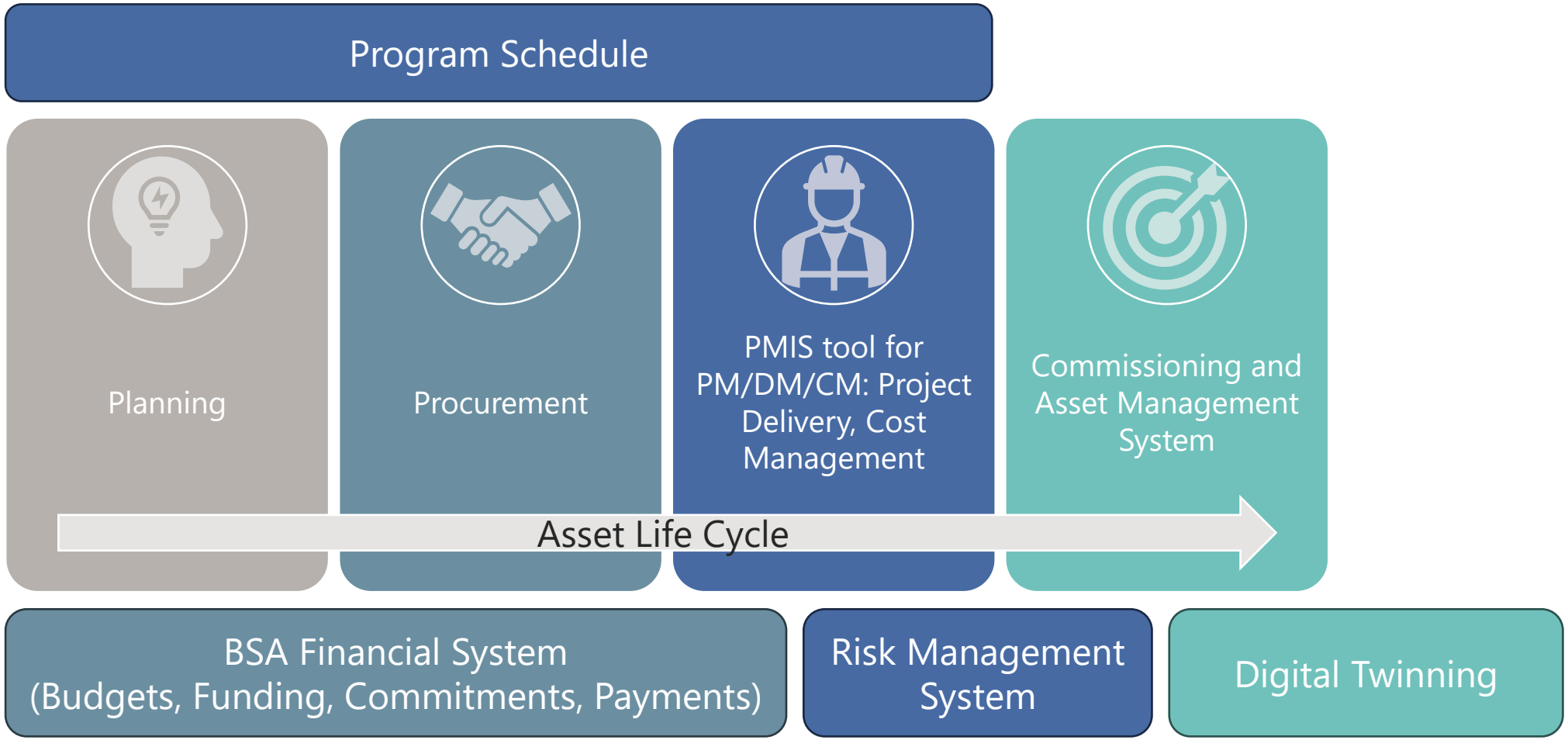
BSA Capital Projects Program Management

BUDGET – BAR CHART



PMIS Roadmap

LEGEND: PMIS Components



Community Engagement & Stakeholder Outreach

Community Engagement on Project Benefits, Construction Impacts, and Mitigation Measures

- **Engagement and Outreach early, consistently, and accessible. Meet the community in their community. Consider all impacts to stakeholders.**
- During construction, residents can expect to see equipment and traffic cones off to one side of the road.
- Temporary disruptions, such as noise and dust, will be minimized as much as possible.
- Sewage odors will NOT be present in homes but may be present outside.
- Coordination with city agencies (Buffalo Water, DPW, Parks Dept, National Grid)

BRECKENRIDGE STREET COMBINED SEWER OVERFLOW (CSO) CONTROL PROJECT

Why is Buffalo Sewer doing this project?

- To improve the City's existing sewer infrastructure and reduce combined sewer overflows (CSOs).
- Replace and rehabilitate sewers that are over 100 years old and redirect them on a different path to the wastewater treatment plant.
- Will reduce CSOs to the Black Rock Canal.

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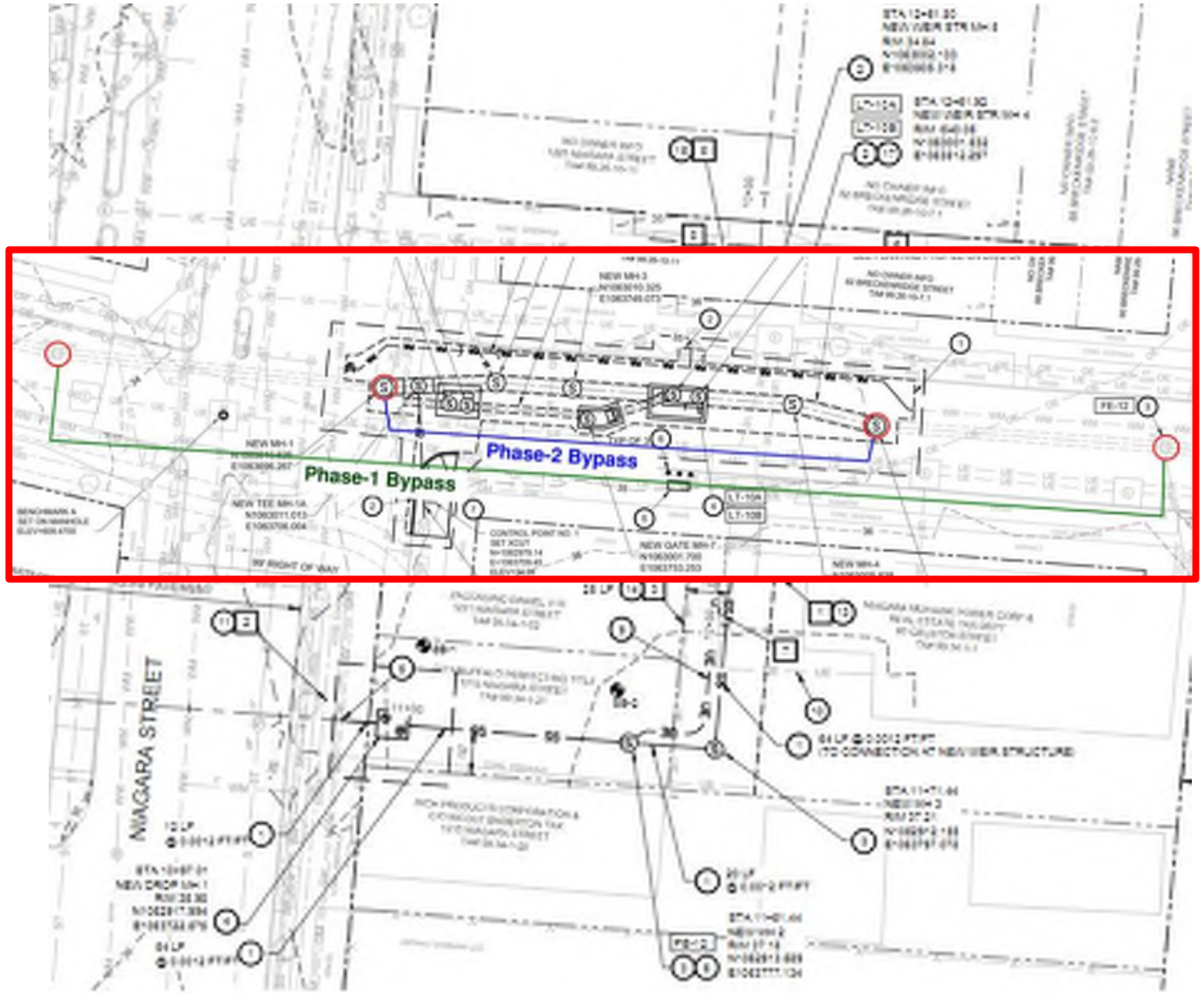
What are the benefits?

- ☑ Reduce the Amount of Nutrients Flowing Into The Black Rock Canal During Storm Events
- ☑ Prevent Overflow of 8 Million Gallons of Combined Sewage to the Black Rock Canal Per Year

Original Concept: Niagara @ Breckenridge Real-Time Controls

ALTERNATIVE REMOVED DUE TO RISK AND CONSTRUCTABILITY

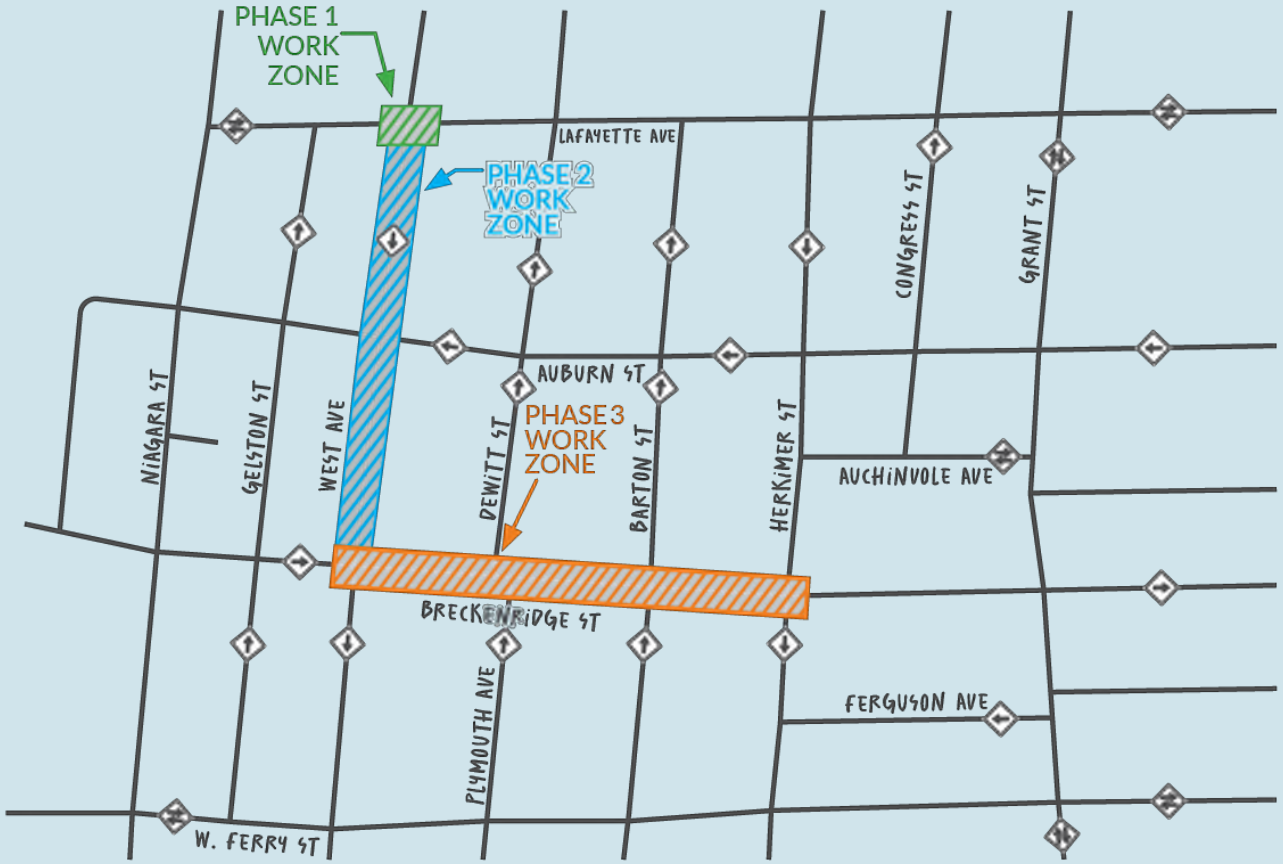


- Design up to 75% involved routing the diversion line through a vacant lot
- Required easement from National Grid and the relocation of substation feeder lines, which was not permitted
- Diverting flow within ROW
- Proximity of aged National Grid electrical infrastructure
- Required additional rock excavation to install gate at intermediate depth
- Bypass sewers unavailable without shutting down Niagara Street, affecting local businesses and adjacent residents

BRECKENRIDGE STREET COMBINED SEWER OVERFLOW (CSO) CONTROL PROJECT

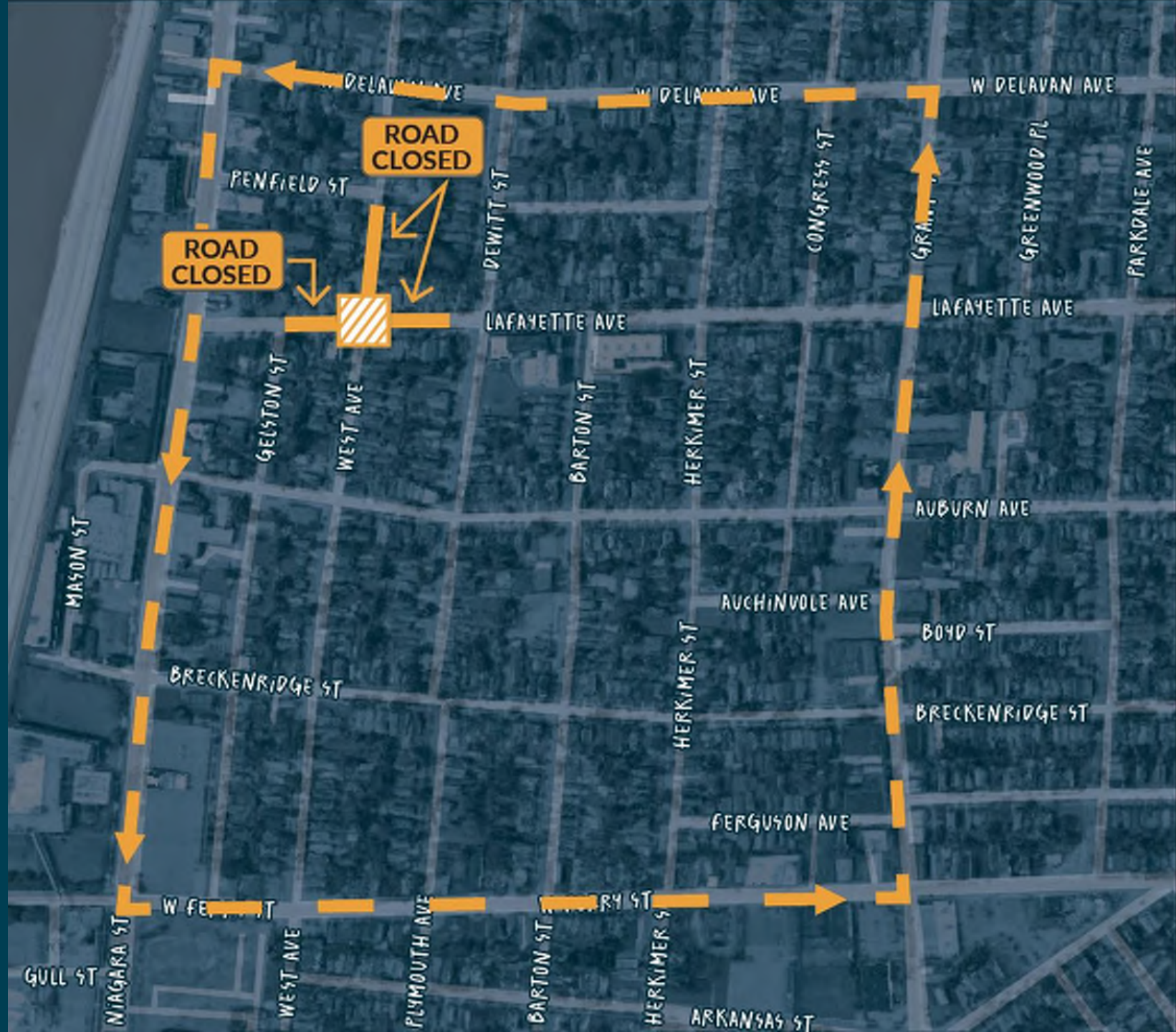
Expected Timelines

- Construction start in Spring 2026 and finish by the end of 2028.
- Construction will be phased (generally one block at a time).
- The phased approach will help minimize temporary disruptions.



BRECKENRIDGE STREET
COMBINED SEWER OVERFLOW
(CSO) CONTROL PROJECT

Lafayette Avenue and West Avenue Closure Detour



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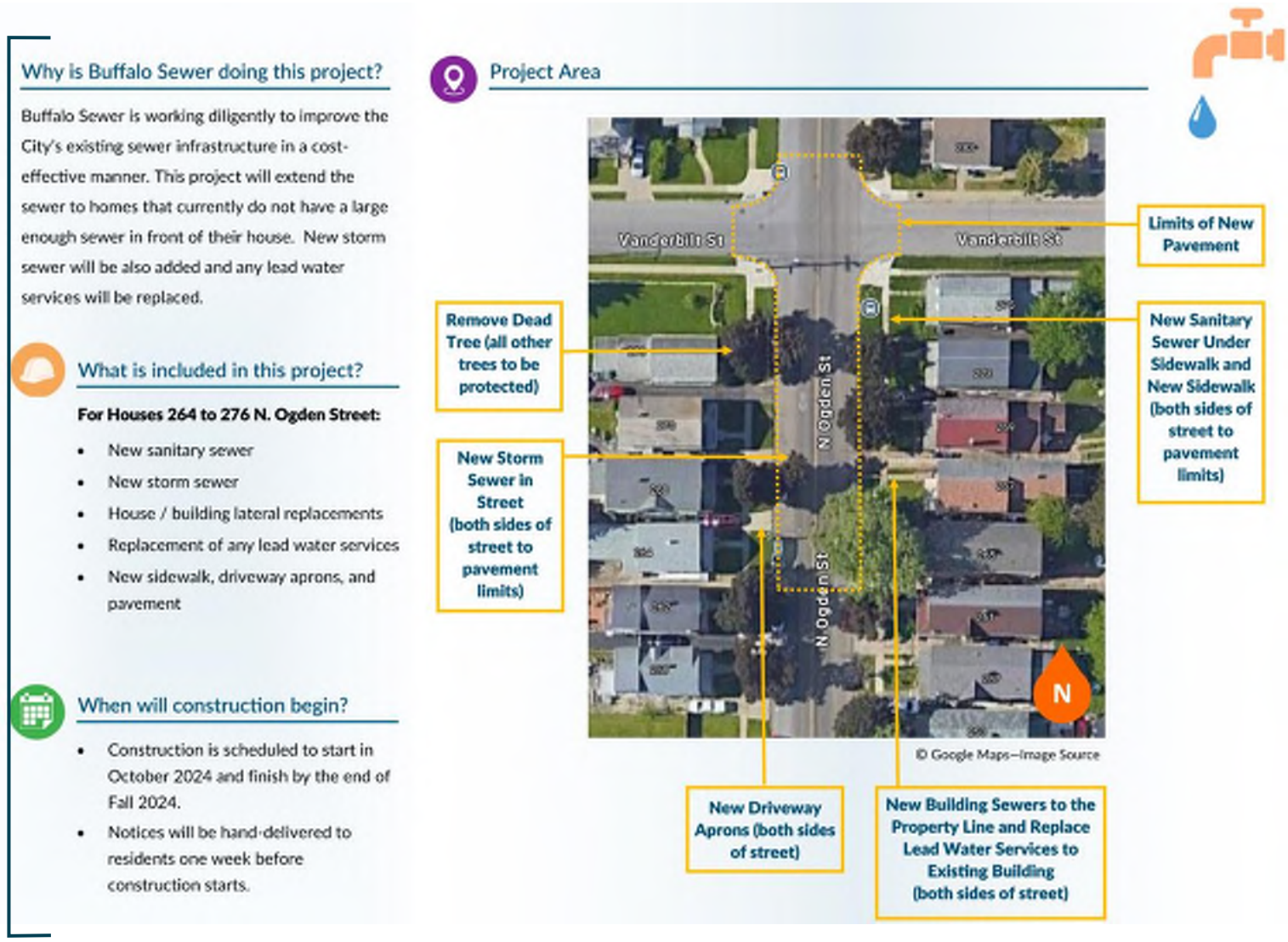
Construction Impacts and Mitigation Measures

- Residents may experience temporary sewer and water service interruptions for a few hours, with advance notifications provided.

- These interruptions will not last days. We will address concerns about explosives, drilling, dust, and air pollution, and manage environmental hazards like asbestos and PCB-laden soils per best practices.

- New traffic patterns will be in place during construction, including:
  - Partial or full road closures
  - Sidewalk closures
  - Limited street parking
  - Possible detours / relocated bus stop



Queen City Clean Waters Stakeholders

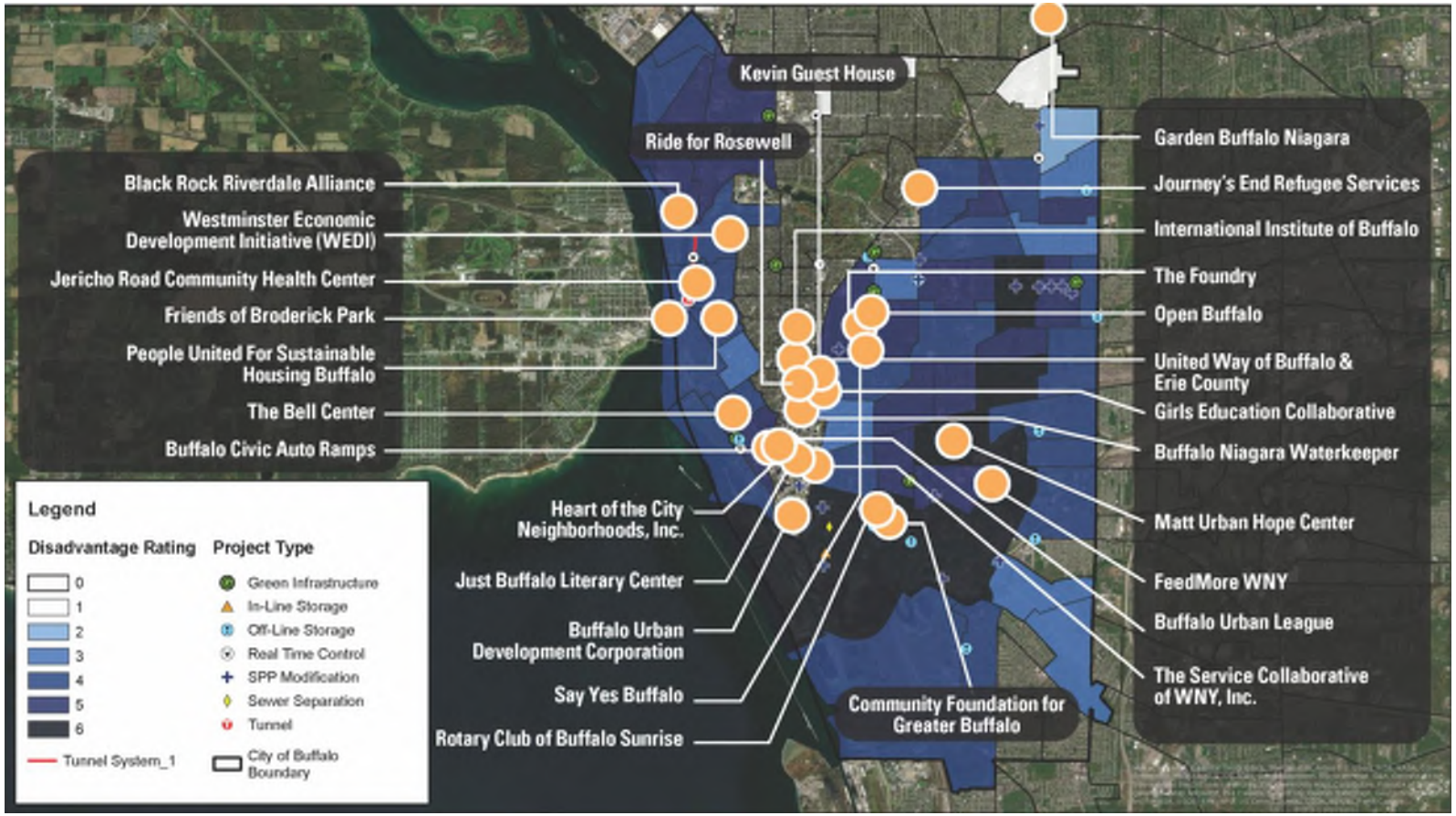
Residents	Delaware, Ellicott, Filmore, Lovejoy, Masten, North, Niagara, South, and University Districts
Local Government Officials	Elected Officials
Community-Based Organizations	Resident advocacy groups, including some in Queen City Clean Water's Stakeholder Advisory Council
Stakeholder Advisory Committee	Northland Workforce Training Center, PUSH Buffalo, Buffalo Urban League, Board of Block Clubs, NAACP, Jericho Road, LISC, Buffalo Niagara Waterkeeper, City of Buffalo Office of Strategic Planning, and Buffalo Center for Health Equity
Businesses	Local businesses that may be affected by construction activities or changes in water rates
Environmental Groups	Organizations focused on water quality and environmental sustainability
City Agencies	Entities responsible for water supply and infrastructure, including parks and recreation, will be involved in implementing the plan

Program Management Impact:
Equity Indicators + Desired Outcomes

1	2	3	4	5	6	7
Community Ownership	Capacity Building	Healthy Communities	Heritage Preservation	Sustainable Wealth Creation	New and Reformed Policy for Sustainable Development	Growth Management and Neighborhood Development

Observation — Discovery — Planning and Application

Partner with Anchor Institutions to Reach the Community



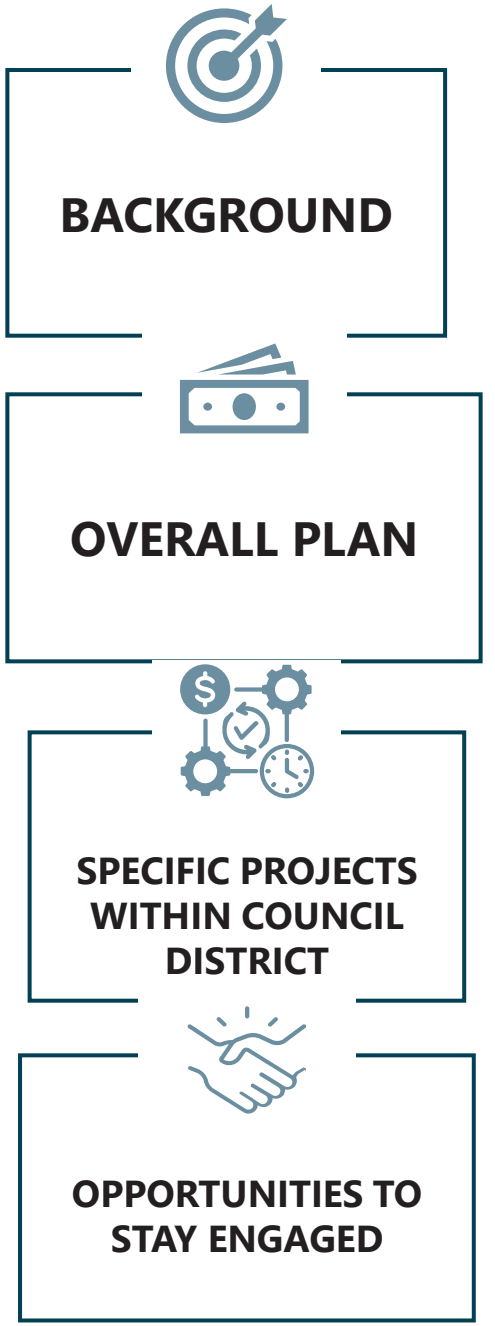
Build a robust **Community Benefits Program** of community partnerships and **Stakeholder Advisory Committee** comprised of community leaders and residents

Accountability + Transparency: Indicators, representation, how are resources distributed and made available

Buffalo Sewer's *Public Participation Plan*

COMPONENTS

- **Stakeholders**
  - Residents Adjacent to the Proposed Project Site
  - Local Elected Officials
  - Community-Based Organizations and Community Residents Located in Potential Environmental Justice Areas
  - Stakeholder Advisory Committee
- **Communications, Information Access, and Events**
- **Public Information Meetings**
  - Common Council Members, Community group Meetings, District Meetings, virtual meetings, SAC Meetings, QCCW Public Meetings
- **Community Partnership Program**



Stakeholder Advisory Committee (SAC)

The purpose of the Stakeholder Advisory Committee (SAC) for the Buffalo Sewer Authority's Queen City Clean Waters Initiative is to serve as a vital bridge between the project team and the diverse communities of Buffalo. The SAC ensures that community perspectives, concerns, and insights are actively incorporated into the initiative's planning, implementation, and evaluation.

Organizations & Agencies Represented:

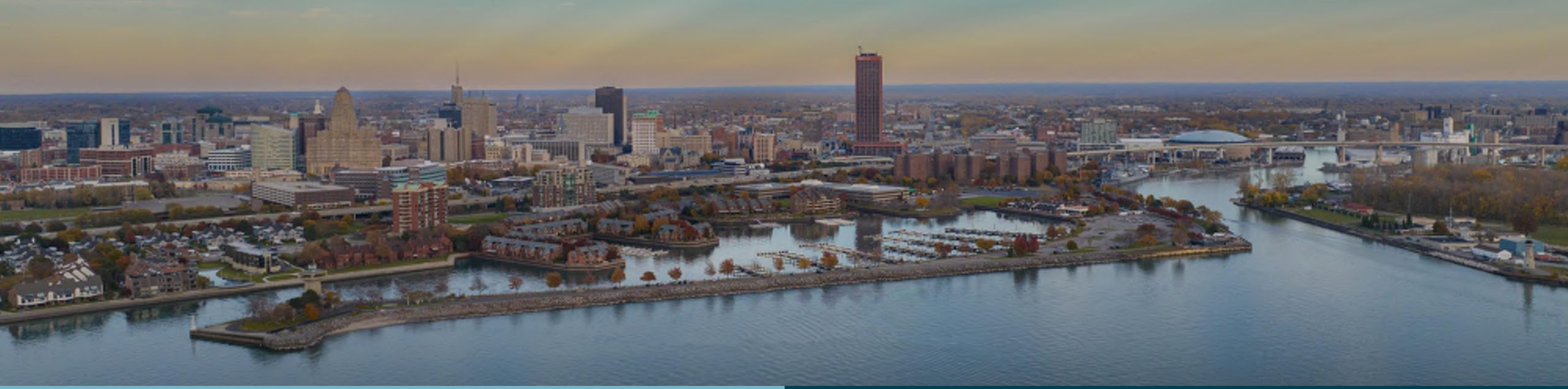
- Northland Workforce Training Center
- PUSH Buffalo
- Buffalo Urban League
- Board of Block Clubs
- NAACP
- Jericho Road
- Local Initiatives Support Corporation (LISC)
- Buffalo Niagara Waterkeeper
- City of Buffalo Office of Strategic Planning (OSP)
- Buffalo Center for Health Equity

BSA's Commitment to the Inclusion of SBE/DBE/MWBE Firms and Local Workforce

PURPOSE

- Create economic opportunity for Small/Disadvantaged/Minority/Women – Owned Business Enterprise (S/D/MBE/WBE) and SDVOB firms, including firms who are new to working with BSA and/or the City of Buffalo

- Promote meaningful teaming arrangements, mentorship, and partnership between established, experienced firms and new and/or smaller firms



Buffalo Sewer wants to ensure construction and professional services contracts deliver a positive economic, environmental, and social impacts for residents.

Companies working with Buffalo Sewer are encouraged to support Buffalo nonprofits through volunteerism or financial contributions to defined community partners. The program will be included in contract terms and compliance monitoring to ensure effective participation.

COMMUNITY PARTNERSHIP PROGRAM

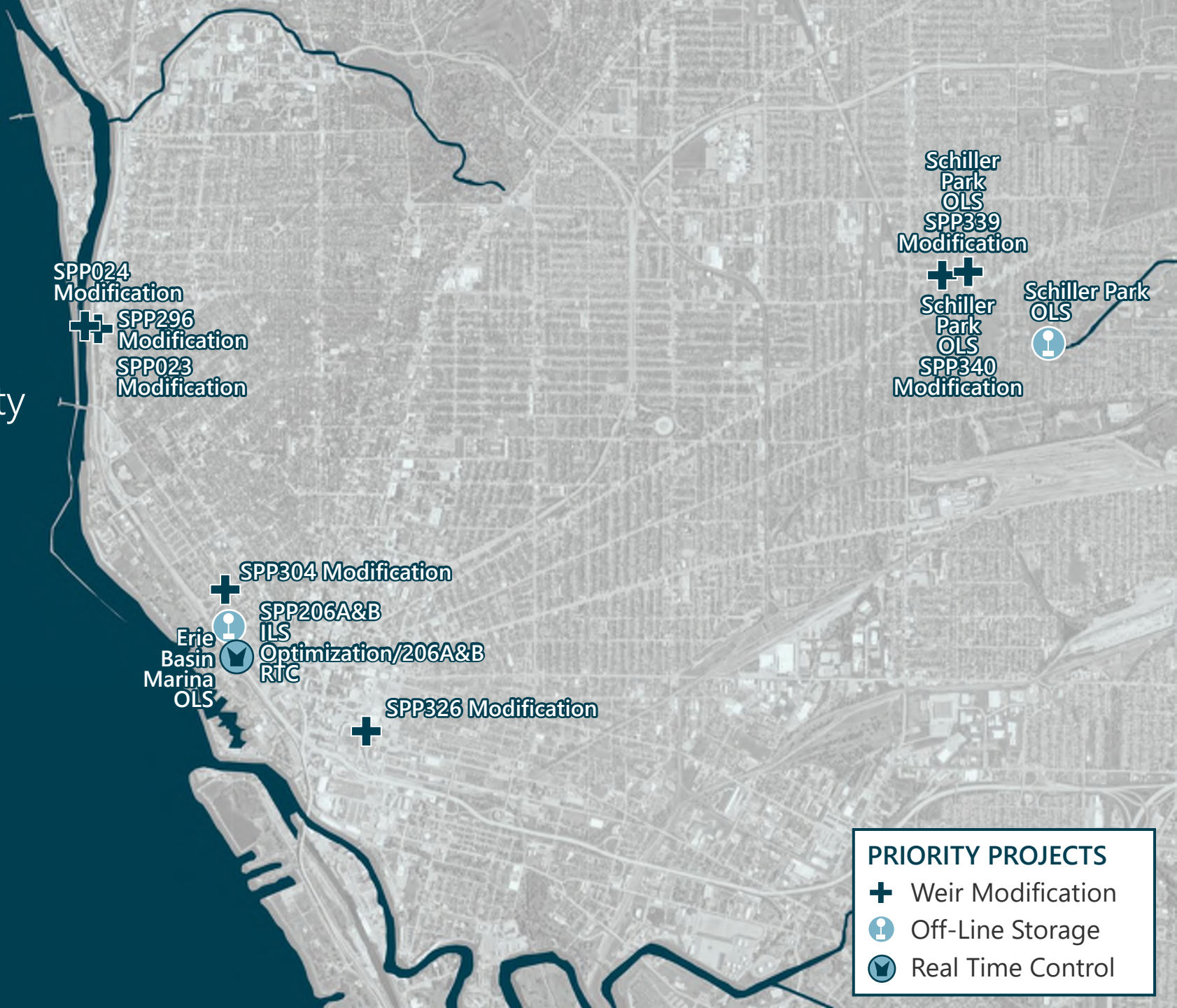
Coming in 2025

What’s Next?

BSA Capital Projects Program Management

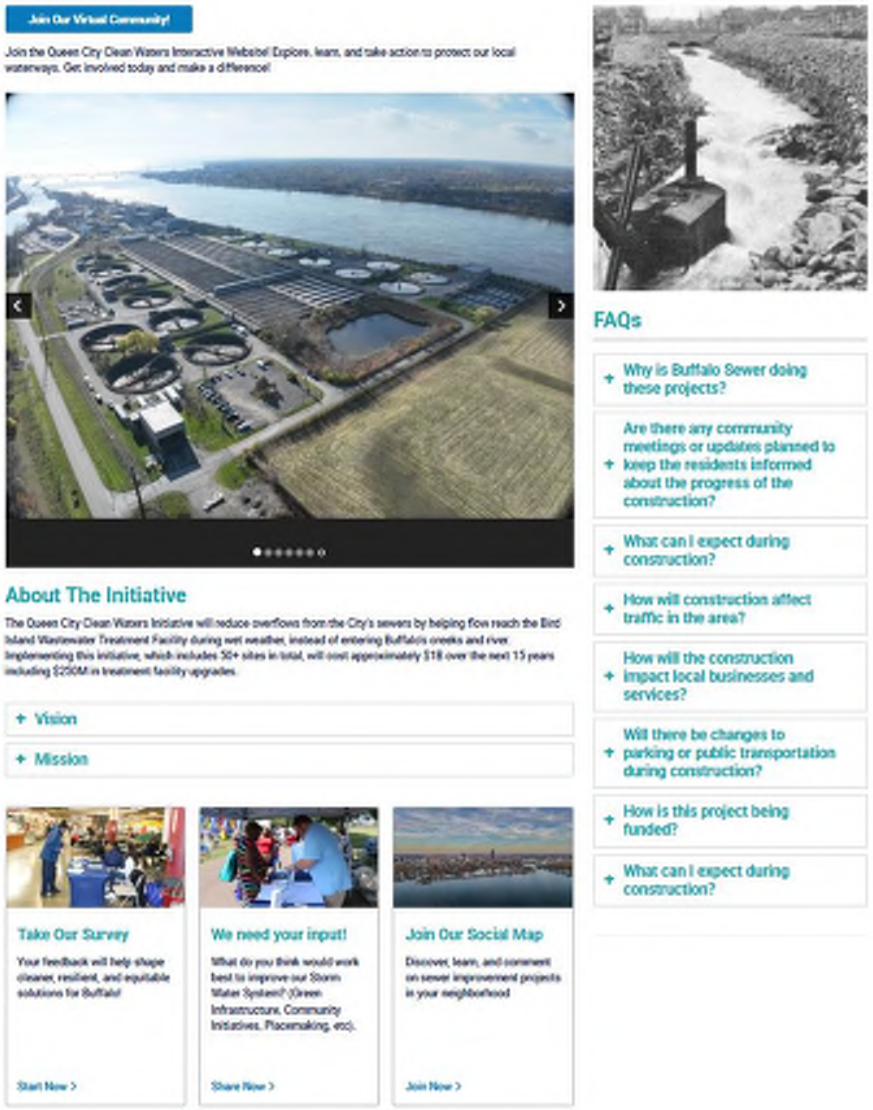
QUEEN CITY CLEAN WATERS COLLECTION SYSTEM 2025 WORK

- Final Design and Bid of Priority SPP Projects
- Off-Line Storage Design
- Progress Next Round of Projects to 30%
- State Funding Applications
- Sewer Maintenance Training
- Asset Management
- Community Partnership Program & Stakeholder Advisory Committee



New! Queen City Clean Waters Interactive Website

BUFFALOQCCW.ORG



BUFFALO SEWER AUTHORITY

TYLin

NYWEA
LEADING THE WAY IN WATER QUALITY MANAGEMENT

Thank you.

Rosaleen Nogle, PE, BCEE
rnogle@buffalosewer.org

Walt Walker, PE , ENV SP
walt.walker@tylin.com

Buffalo Sewer Launches Interacitve Queen City Clean Waters Intiative Website

Site provides local stakeholders and residents opportunity to provide comments on projects across the city;interactive map provides real time updates

The Buffalo Sewer Authority (Buffalo Sewer) has launched an interactive website for the Queen City Clean Waters Initiative to engage local stakeholders and communities for project input and participation in the $1 billion effort to improve local waterways by mitigating combined sewer overflows.

City of Buffalo residents and stakeholders can access the website at http://buffaloqccw.org/. The website features initiative details, project updates, frequently asked questions (FAQs), a comment/question section, and a program timeline.

The website also includes an interactive platform where users can access the Queen City Clean Waters Initiative survey, designed to gather feedback on initiative communication and information sharing. Users can also communicate directly with Buffalo Sewer through the website's comment platform to ask questions or provide input and ideas.

An interactive project map allows users to view project locations, timelines, and details. Community members can provide comments on projects impacting their neighborhoods, ensuring that their voices are heard and prioritized in these community improvement efforts.

"An integral component of this initiative is engagement and interaction with the local community; we especially need to hear from those neighborhoods most affected by combined sewer overflows and the burying of waterways," said Rosaleen Nogle, PE, BCEE, BC WRE, Principal Sanitary Engineer, Buffalo Sewer. "Buffalo Sewer encourages residents to participate in our engagement process to enhance our role in protecting public health and the environment."

FOR IMMEDIATE RELEASE
April 7, 2025

Contacts:
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716-553-5225
Philip Wells, e3comms.
716-512-3326

BUFFALO SEWER AUTHORITY TO HOST PUBLIC PARTICIPATION FORUMS REGARDING $1 BILLION QUEEN CITY CLEAN WATERS INITIATIVE

First in a series of forums across the City of Buffalo to be hosted in the Masten, South and University Councilmanic Districts

BUFFALO, NY – The Buffalo Sewer Authority (BSA) will host the first of a series of public participation forums to provide information and gather community input regarding the $1 billion Queen City Clean Waters Initiative, a 15-year program designed to build infrastructure projects in neighborhoods across the City of Buffalo to mitigate combined sewer overflows (CSOs) into local waterways.

A forum will be held in each Councilmanic district with the first three scheduled to take place at the following venues.

- University District: Thursday, April 10th at Gerard Place, 2515 Bailey Avenue at 6 p.m.
- South District: Thursday, April 17th at the Buffalo Irish Center, 245 Abbott Road at 6 p.m.
- Masten District: Tuesday April 22nd @ Northland Training Center, 683 Northland Avenue at 6 p.m.

The forums will include presentations, a demonstration of the interactive QCCW website (http://buffaloqccw.org/), a question and answer session with staff members of the Buffalo Sewer Authority, design team, , Queen City Clean Waters stakeholder advisory committee members and other project stakeholders and opportunities to provide feedback. Dinner will be served each evening.

“The Public Participation Plan is an integral process that is essential to prioritizing community engagement as we seek feedback and input from community members on any adverse impacts, including environmental justice (EJ) impacts from construction of projects, and how to ensure

maximum community benefit," said Rosaleen Nogle, PE, BCEE, BC WRE Principal Sanitary Engineer, Buffalo Sewer.

-more-

The initiative will include infrastructure enhancements at 50+ sites across the city, including ongoing upgrades at the Bird Island Wastewater Treatment Facility which will total over $250 million. The 50+ planned projects will reduce combined sewer overflows to Western New York waterways including the Niagara River, Scajaquada Creek, Erie Basin Marina, Black Rock Canal, Cazenovia Creek, and the Buffalo River, improving water quality for the people of the City of Buffalo, our visitors, and downstream communities.

The remaining six councilmanic district and two city wide public participation forums will be scheduled throughout the spring and early summer.

-30-

About the Buffalo Sewer Authority: Buffalo Sewer is a New York State public benefit corporation created in 1935 to "relieve the Niagara River, Buffalo River, and Lake Erie from pollution by the sewage and waste of the city and relieving city from inadequate sanitary and stormwater drainage and for the sanitary disposal or treatment of the sewage thereof." Buffalo Sewer may accept, treat and dispose of the sewage and waste of all municipal corporations in Erie County.

About the Queen City Clean Waters initiative: To safeguard public health and the environment while fostering strong community partnerships, creating meaningful workforce opportunities, and driving lasting economic impact for future generations in Buffalo.

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BUFFALO SEWER AUTHORITY

TYLin

Water Environment Association of Ontario

2025 WEAO ANNUAL CONFERENCE

Setting up a Program Management System for a Major Capital Projects Implementation Plan

Rosaleen Nogle, PE, BCEE, BC.WRE
Principal Sanitary Engineer, Buffalo Sewer Authority

Ryan Christopher, PE, ENV SP
Design Center Manager & Associate, TYLin

April 15, 2025

Disclaimer

- This Presentation is provided as of April 15, 2025.
- If you are viewing this Presentation after that date, subsequent events could have a material effect on this information.
- By presenting this information, Buffalo Sewer has not undertaken any obligation to update the information beyond the date of the Presentation.
- Data and other information provided are not warranted as to completeness or accuracy and are subject to change without notice.
- The views, policies, programs, and practices reflected herein also are subject to change without notice.
- This Presentation is provided for your information and convenience only.

Program Goals

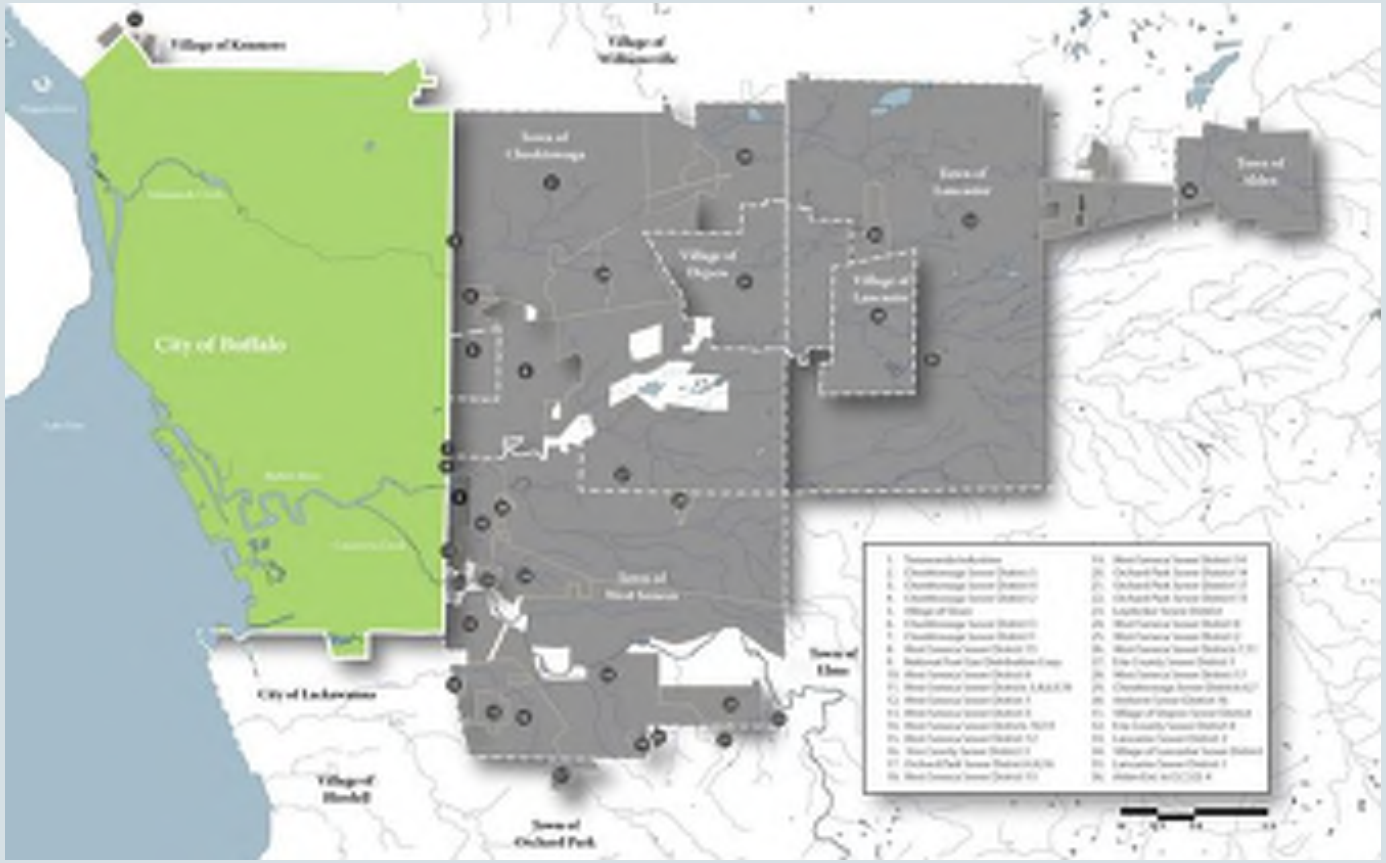
- Continuing Buffalo Sewer's 90-year mission to protect public health
- Meet all state + federal regulations
- Deliver the Buffalo Sewer's capital projects and Long-Term Control Plan more efficiently, for a more resilient Buffalo
- Manage and Coordinate the delivery of all projects and subprograms
- Optimize interactions and coordination between projects
- Enhance relationships between capital and O&M staff, and the public/community
- Improve customer satisfaction, creating more opportunities for public participation and community engagement
- Standardization of tools, processes and execution across all Buffalo Sewer projects/programs
- Identify and advance specific programmatic opportunities to promote Buffalo policies and strategic priority goals, including financial stability, transparency and accessibility to the public

Key Terminology

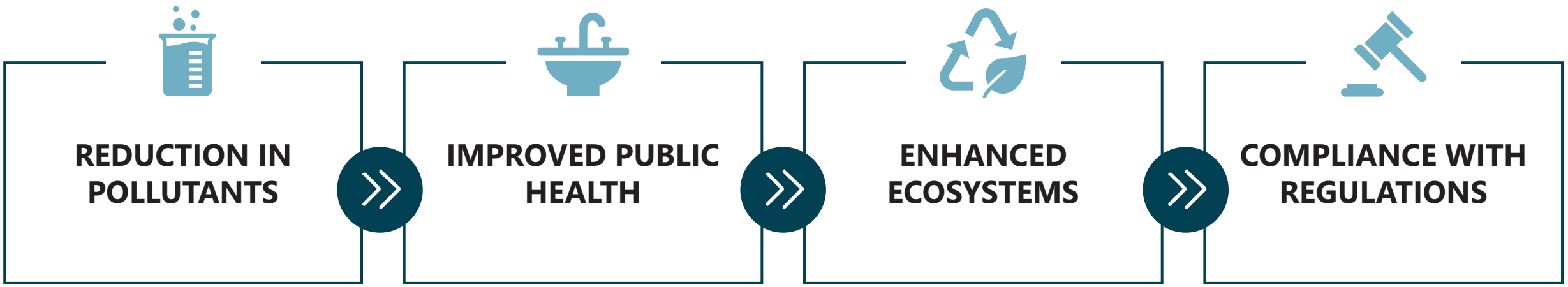
- **CSO:** when a combined sanitary and storm sewer overflows into a waterbody during high flow precipitation events
- **Interceptor:** large diameter sewer pipe that collects wastewater from smaller neighborhood pipes
- **ILS:** the storage of wastewater temporarily within the existing sewer pipes
- **OLS:** A tank that holds extra water when the sewer is full, then drains it to be treated when there's space.
- Orifice plate: A flow restricting device
- **Overflow Weir:** a barrier that lets excess water flow over the barrier to control water levels
- **RTC:** Sewer chambers with automatic gates store and release water to prevent overflows when the treatment plant is ready.
- **SPP:** A chamber that directs water to the treatment plant in dry weather or overflow area during heavy rain.
- **Underflow Pipe:** is a pipe that allows water to flow underneath a barrier to manage water levels to prevent flooding
- Weir: Water flow control barrier

Buffalo Sewer Authority

- Founded on April 8, 1935
- Created to “provide an effectual means for relieving the Niagara River, Buffalo River and Lake Erie from pollution by sewage and waste”
- Approximately 200 employees
- Serves Buffalo and 11 Outlying Communities



Water Quality Benefits



1994

USEPA CSO Control Policy Issued (Required Development of LTCP)

2004

Submitted Initial LTCP to New York State Department of Environmental Conservation (NYSDEC)

2007

NYSDEC/USEPA Request Additional Evaluations

2009

Negotiation of Consent Decree Begins

2012

Submitted LTCP Update to USEPA/ NYSDEC (as directed by regulatory agency

2014

Final LTCP Report Submitted to USEPA/NYSDEC

2022

Revised collection system model is approved

2023

QCCW (51 proposed projects) submitted to NYSDEC

LTCP Optimization Approach

Globally Coordinated Control Strategy

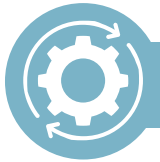
Real time control (RTC) sites collaborate to prevent overflows and reduce peak flows, regardless of local conditions.

System Evaluation Considerations and Constraints

- Property ownership
- Underground contamination concerns
- Gravity flow vs. pumping
- Prioritization of sewer patrol points (SPP) with low activation requirements and high overflow in baseline projects
- Potential coordination

Original Projects Considered

77 projects including In-line (ILS) and Off-line Storage (OLS), Green Infrastructure, Sewer Separation, and Sewer Patrol Point (SPP) Modification

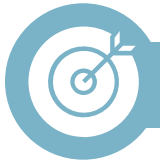


Optimization Rounds

- Project alternatives per SPP
- Full system optimization
- Minimizing cost while achieving compliance

Tools Used

Cloud computing for alternatives analysis



Outcome

51 projects identified as Selected Alternatives

What does that mean for present and future?

- Changing Dynamics with Consultants and the Public
- Centering Public Participation and Community Engagement in the LTCP
- Graying our Green: Concentrating Flows to Increase Affordability
- Greening our Gray: Place Making Instead of Camouflage
- Globalized System Logic Continuous System Monitoring
  - Constant Improvement
  - Commitment to Smart System
- Holistic and watershed thinking over individual CSO
  - Informed by Individual CSO Needs
    - Globalization Opportunities
    - City owned lands
      - Parks, Vacant Lots, Right of Ways
- Synergistic Thinking

Queen City Clean Waters (QCCW) – Mission and Vision

BUFFALO SEWER AUTHORITY

QUEEN CITY CLEAN WATERS

VISION

Clean waters and a resilient Buffalo.

MISSION

To safeguard public health and the environment while fostering strong community partnerships, creating meaningful workforce opportunities, and driving lasting economic impact for future generations in Buffalo.

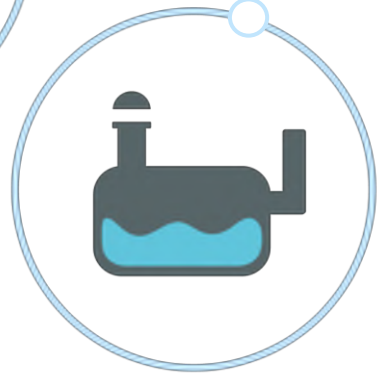
Types of Queen City Clean Waters Projects

$

Projects to be funded through a combination of:

Federal and state funding administered through NYSEFC and NYSDEC (grants, zero to low interest loans), Environmental Impact Bond, and BSA capital budget

Bird Island Treatment Facility Upgrades



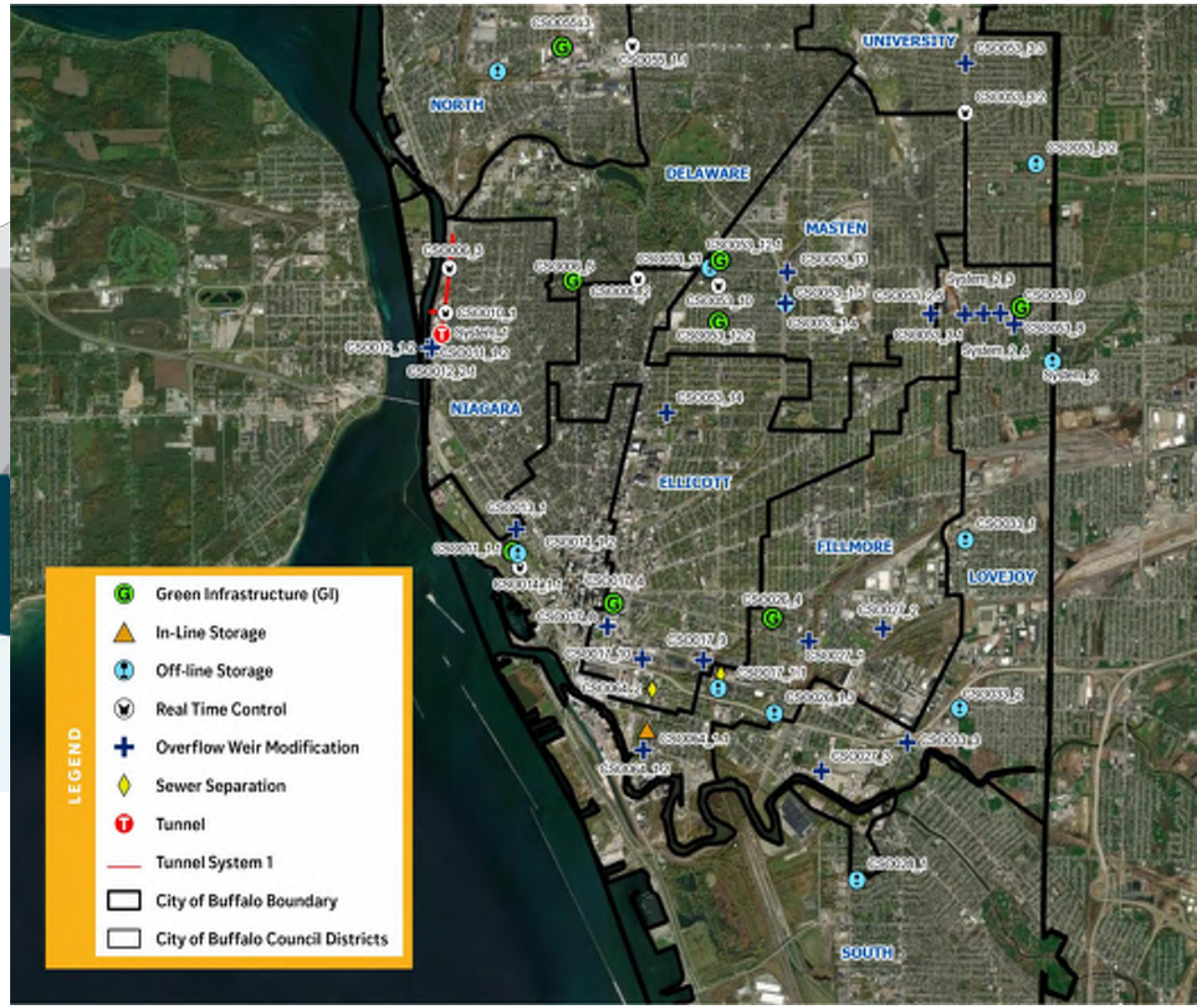
Combined Sewer Offline Storage

Real-time Control Smart Sewers and Sewer Improvements & Modifications

Green Infrastructure (GI)

Queen City Clean Waters

PROGRAM OVERVIEW



QCCW Brand Media Launch Event

October 16, 2024

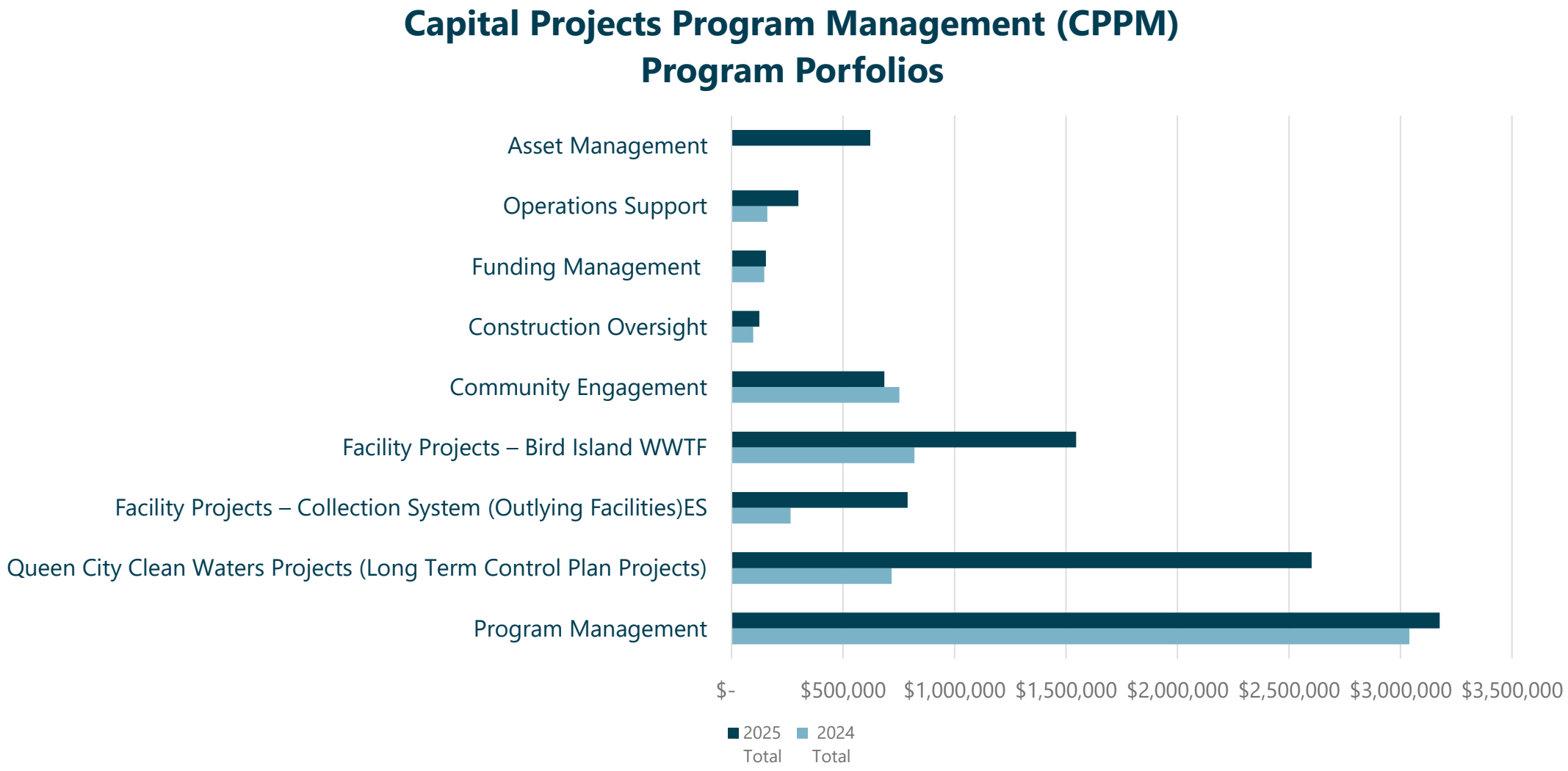
Program Management

PROGRAM PORTFOLIO AT A GLANCE

- General Program Management
- Queen City Clean Waters Collection System Projects
- Queen City Clean Waters Facilities Projects – Outlying Stations
- Queen City Clean Waters Facilities Projects –WWTP
- Community Partnerships & Public Communications
- Procurement and Workforce
- Funding
- Operations Support
- Asset Management
- Program Controls + PMIS
- Standard Operating Procedures

BSA Capital Projects Program Management

BUDGET – BAR CHART



Implementation of PMIS (Project Management Information System)

Background

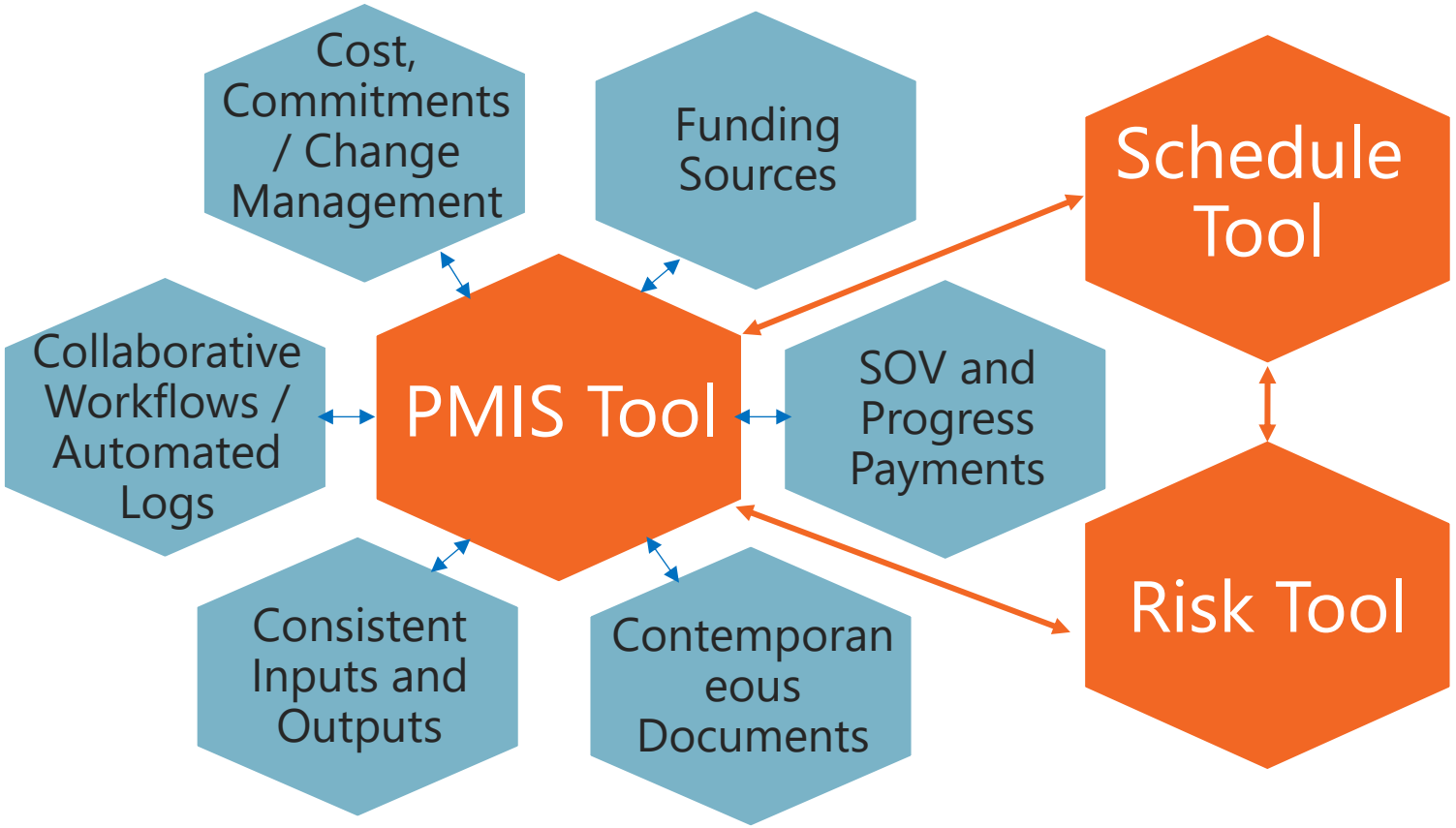
- Assessment surveys
- Evaluation of industry
- BSA seeks to obtain and achieve streamlined systems for program delivery, controls and reporting
- Limited use of Procore
- Excel spreadsheets are used for routine project progress analysis
- Need to have separate approaches for program/project related applications and O&M applications

Vision

- Integrated program controls functions
- Uniform and consistent reporting
- Consolidate information of all projects at one location
- Program and project level reporting
- Efficient use of one integrated system instead of several isolated systems

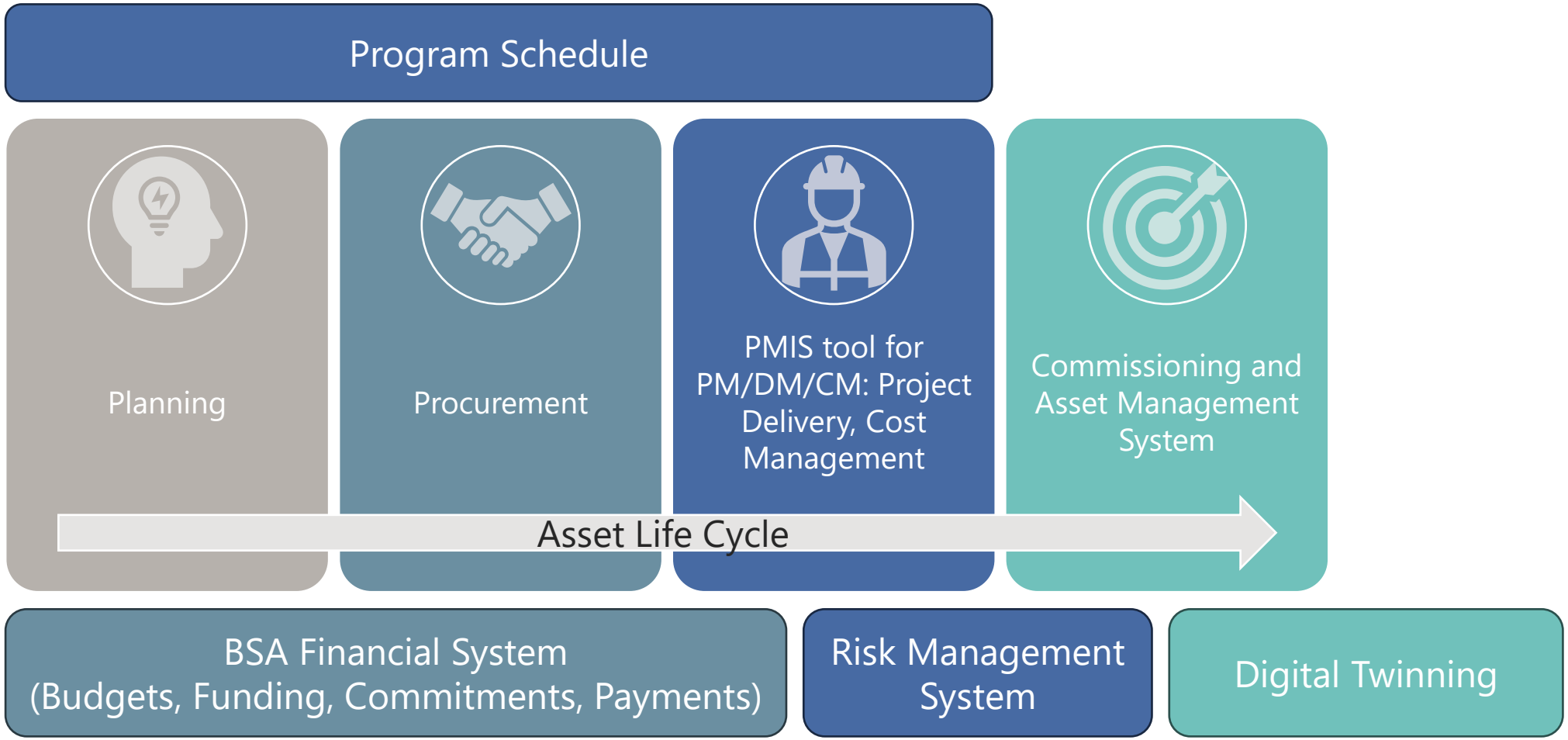
Integrated and Collaborative Tool

- **PMIS Tools combine and integrate several functions into a single collaborative platform**
- Streamlined single source inputs remove redundancies
- **Improved utilization of project resources, transparency and timeliness of information**
- There are still multiple tools, such as for scheduling and risk management



PMIS Roadmap

LEGEND: PMIS Components



Evaluation Criteria and Survey Results

- Budget and time
- Desired functionalities
- Value for money
- Level of integration
- Programmatic consistency
- Achieve reporting objectives

PMIS Survey

Criteria	Most Important	Very Important	Somewhat Important	Important	Not Important
Budget and Time					
Cost *(Sensitivity of the total cost of setting up PMIS + Licenses + Maintenance)*		3	1		
Adherence to existing processes *(How important it is for BSA to use their existing processes in the project delivery)*		1	2	1	
Implementation Go Live Timing *(The speed at which start date of the PMIS when it will be up and running)*	1	1	1	1	
BSA Staffing of ongoing Administrative Support *(How important it is for BSA to hire staff for maintaining PMIS inhouse)*		2		1	1
Desired Functionality					
Project Delivery *(Set up of Project Delivery in the PMIS Tool)*		4			
Cost Management *(Set up of Cost Management in the PMIS Tool)*	1	2	1		
Change Management *(Tracking of Change Management in the PMIS Tool)*		3	1		
Value for Money					
Program Consistency, Reporting, KPIs *(Maintain consistency at project and program levels)*		3	1		
Collaborative PMIS Platform / Optimized Processes *(Set up PMIS for a collaborative environment and revisit internal processes for improved efficiencies in project delivery)*		3		1	
Near Real-Time Reporting *(Customized reports and look ahead in a timely manner)*		1	2	1	
Data Driven Decisions *(Decisions based on information received through PMIS)*		3	1		
Auditability *(Perform regular project audits for adherence to implementation and processes set for project delivery)*	1	2	1		
Integration with other processes / systems (can range from manual to automated)					
Cost System *(Efficient management of program & Project cost tracking and accurate reporting)*	2	2			
Schedule *(Efficient management of program & Project schedule tracking and accurate reporting)*		4			
Risk Management *(Program risk analysis impacting individual projects)*		2	2		
Document Management *(Efficient document storage and retrieval, controlled access, tracking, and workflows management)*		3		1	
Contractor Tools *(Supporting contractor processes with the use of PMIS to provide them timely input to minimize cost and schedule impacts to the project)*		2		2	
Commitments *(Tracking commitments against approved budgets)*		3		1	

Current PMIS Comparison

PMIS Tool	Comments	Project Delivery	Document Management	Cost Management	Cost-Related Flexibility	Price	Out of Box	Vendor Support	Admin Efficiency
A-SITE	Financially not as flexible, but low price point	Yes	Yes	Limited	Limited	$	Yes	Limited	High
Unifier	Strong community, strong vendor support	Yes	Yes	Yes	Strong	$$	Yes	Strong	High
E-Builder	Strong community, erratic pricing practices	Yes	Yes	Yes	Strong	$$$	Yes	Moderate	Moderate
Kahua	No staging environment; "extensions" not supported	Yes	Yes	Yes	Limited	$$	Yes	Limited	Weak
ProCore	Developing owner functionality; limited funding; no WF kickoffs	Yes	Yes	Limited	Limited	$$$	Yes	Strong	High
Project Mates	New product, low price point	Yes	Yes	Limited	Limited	$	Yes	Limited	High

Based on BSA survey responses, Unifier and eBuilder were selected for further cost comparison.

Community Engagement & Stakeholder Outreach

Queen City Clean Waters Stakeholders

Residents	Delaware, Ellicott, Filmore, Lovejoy, Masten, North, Niagara, South, and University Districts
Local Government Officials	Elected Officials
Community-Based Organizations	Resident advocacy groups, including some in Queen City Clean Water's Stakeholder Advisory Council
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Buffalo Sewer's *Public Participation Plan*

BUFFALO SEWER AUTHORITY

QUEEN CITY CLEAN WATERS

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- Communications, Information Access, and Events
- Public Information Meetings
  - Common Council Members, Community group Meetings, District Meetings, virtual meetings, SAC Meetings, QCCW Public Meetings
- Community Partnership Program

BACKGROUND

OVERALL PLAN

SPECIFIC PROJECTS WITHIN COUNCIL DISTRICT

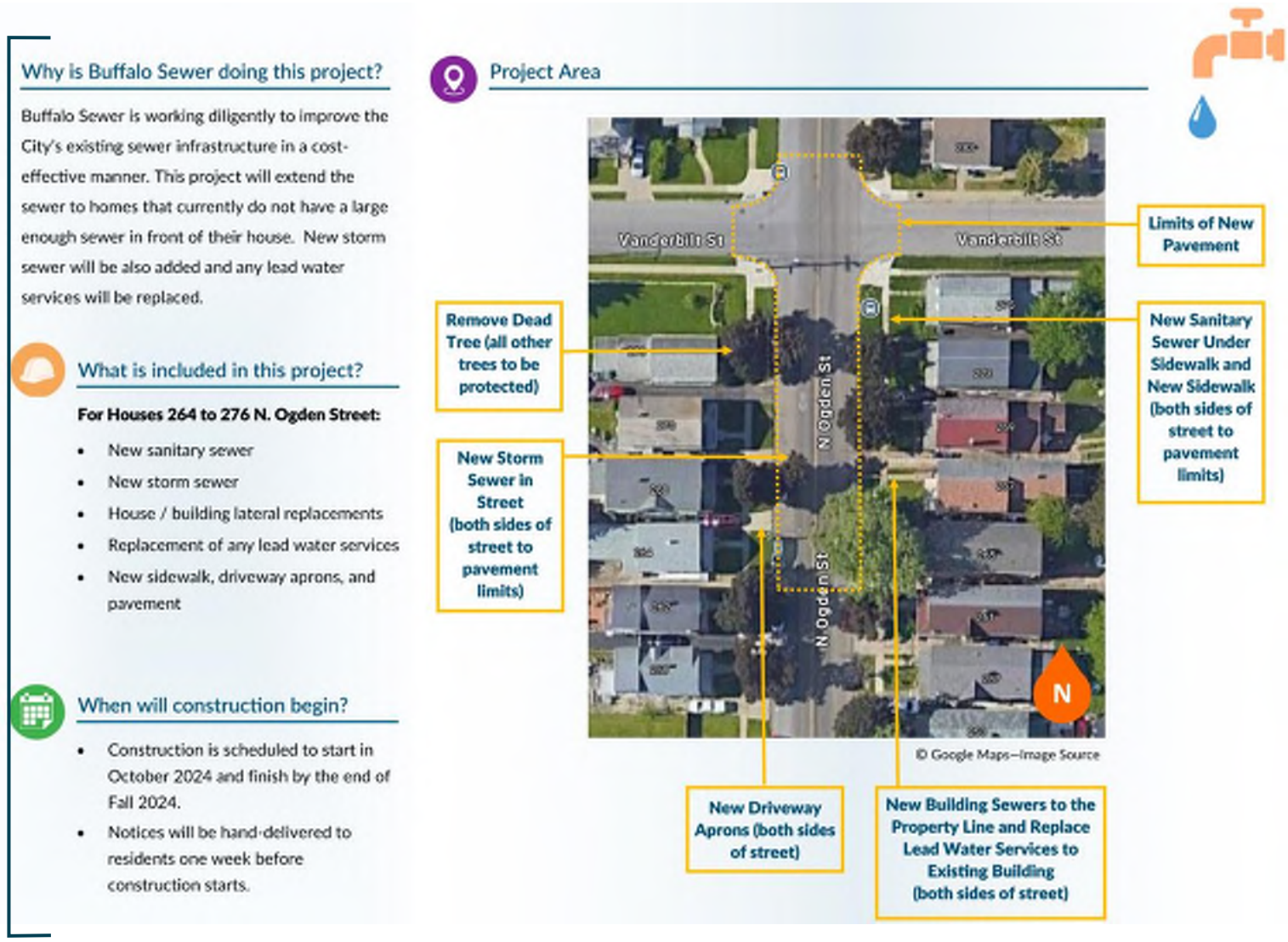
OPPORTUNITIES TO STAY ENGAGED

Construction Impacts and Mitigation Measures

- Residents may experience temporary sewer and water service interruptions for a few hours, with advance notifications provided.

- These interruptions will not last days. We will address concerns about explosives, drilling, dust, and air pollution, and manage environmental hazards like asbestos and PCB-laden soils per best practices.

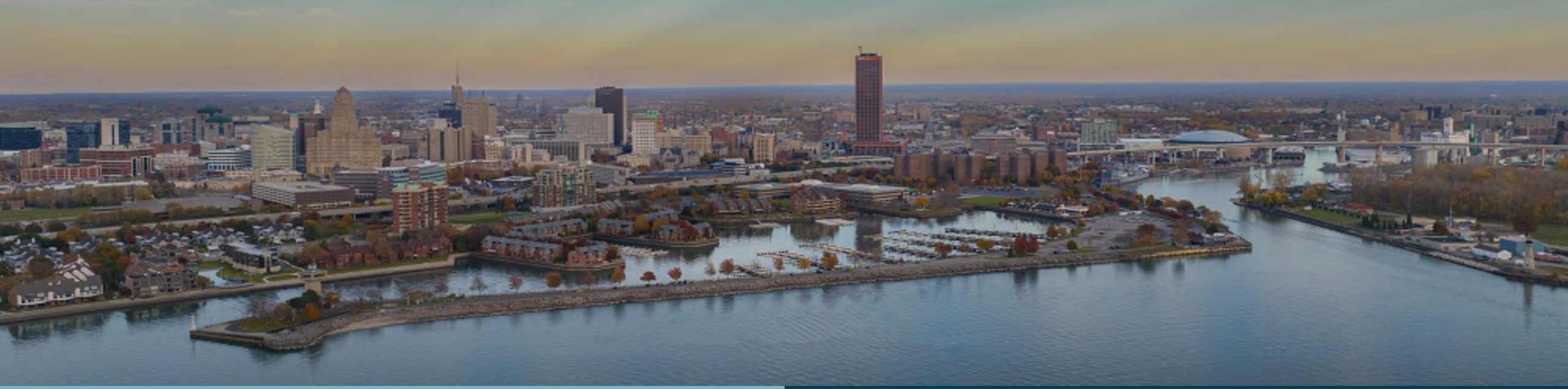
- New traffic patterns will be in place during construction, including:
  - Partial or full road closures
  - Sidewalk closures
  - Limited street parking
  - Possible detours / relocated bus stop



BSA's Commitment to the Inclusion of DBE/MWBE Firms and Local Workforce

PURPOSE

- Create economic opportunity for Disadvantaged/Minority/ Women – Owned Business Enterprise (D/MBE/WBE) firms, including firms who are new to working with BSA and/or the City of Buffalo
- Promote meaningful teaming arrangements, mentorship, and partnership between established, experienced firms and new and/or smaller firms



Buffalo Sewer wants to ensure construction and professional services contracts deliver a positive economic, environmental, and social impacts for residents.

Companies working with Buffalo Sewer are encouraged to support Buffalo nonprofits through volunteerism or financial contributions to defined community partners. The program will be included in contract terms and compliance monitoring to ensure effective participation.

COMMUNITY PARTNERSHIP PROGRAM

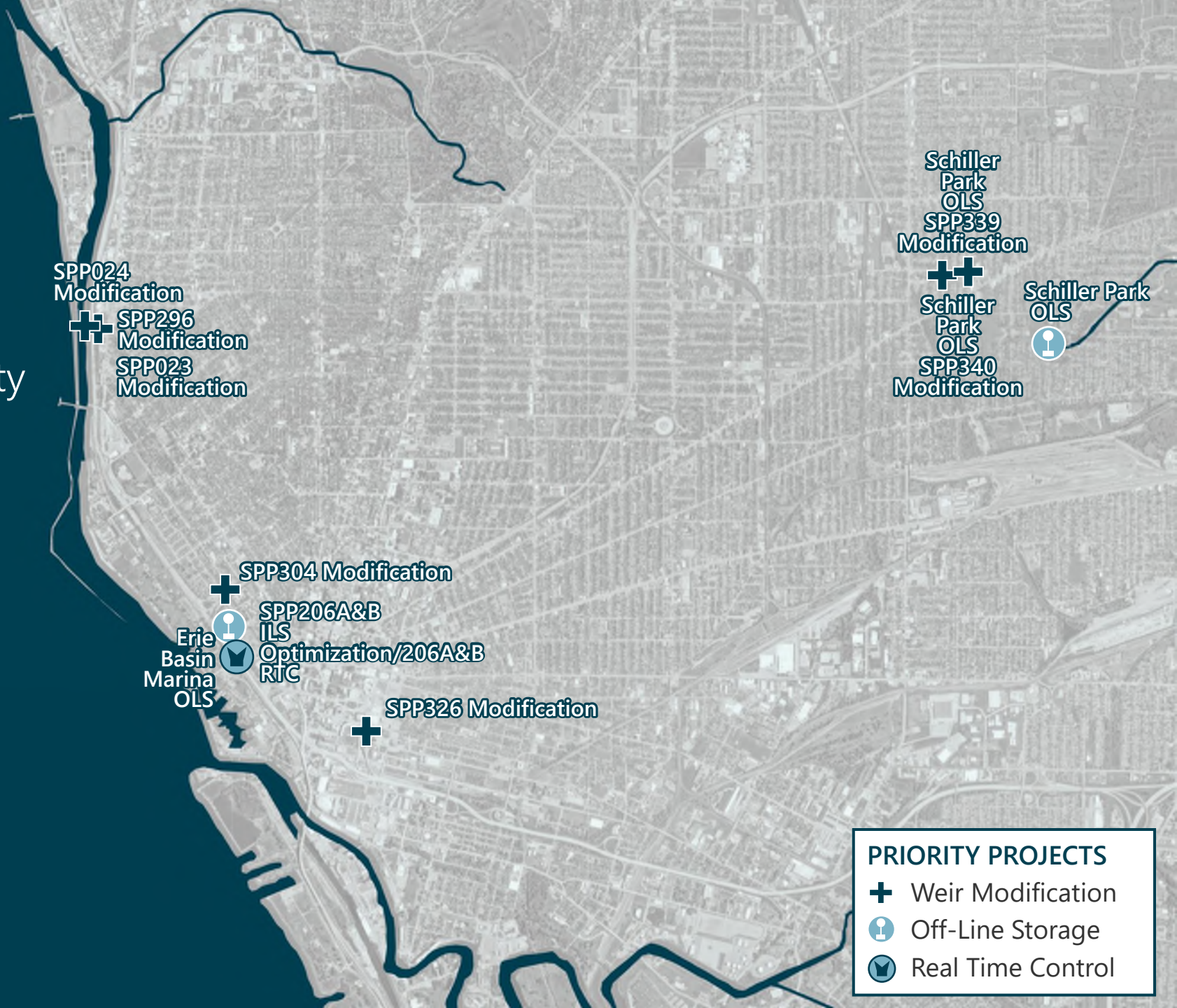
Coming in 2025

What’s Next?

BSA Capital Projects Program Management

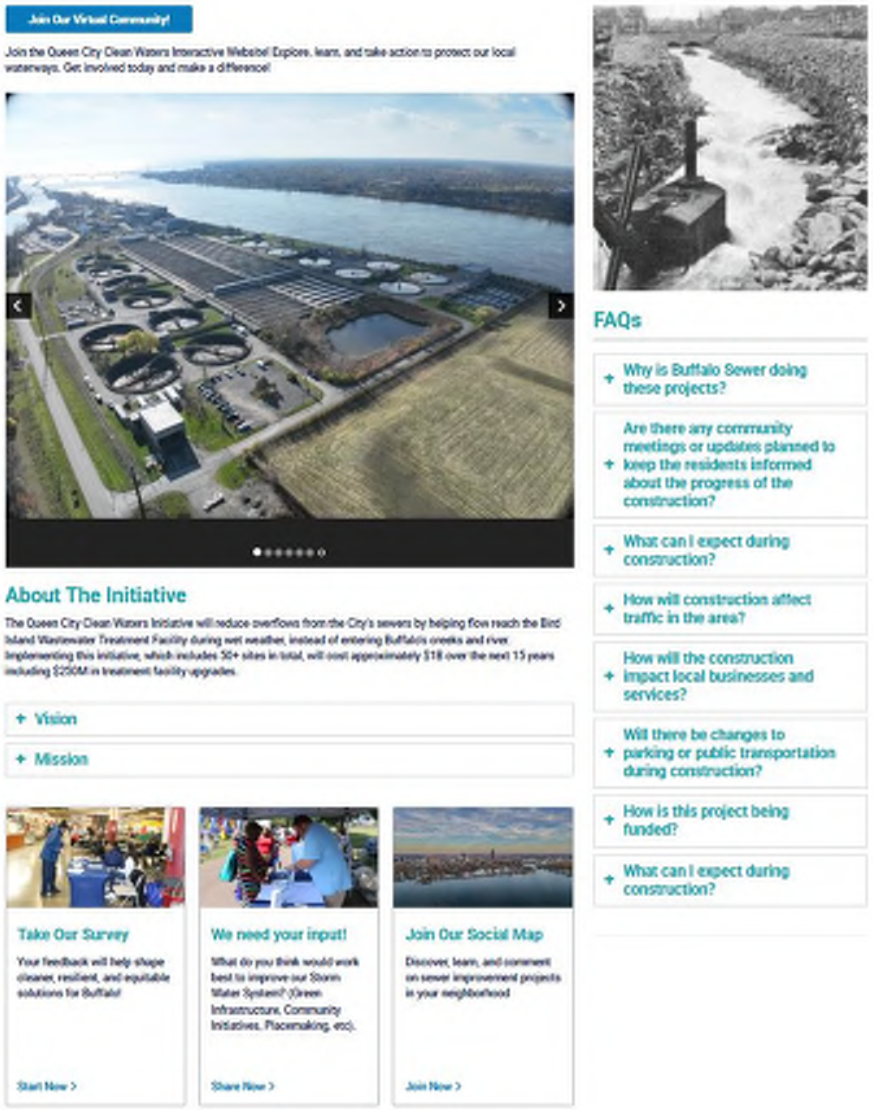
QUEEN CITY CLEAN WATERS COLLECTION SYSTEM 2025 WORK

- Final Design and Bid of Priority SPP Projects
- Off-Line Storage Designs
- Progress Next Round of Projects to 30%
- State Funding Applications
- Sewer Maintenance Training
- Asset Management
- Community Partnership Program and Stakeholder Advisory Committee
- Open House Info Sessions



New! Queen City Clean Waters Interactive Website

BUFFALOQCCW.ORG



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TYLin

Water Environment Association of Ontario

Thank you.

Rosaleen Nogle, PE, BCEE, BC.WRE
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Ryan Christopher, PE , ENV SP
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https://buffalonews.com/news/local/article_7ab5c217-0131-4b66-a00c-b1ce1109957f.html

TOP STORY EDITOR'S PICK

More time and $1 billion needed for Buffalo sewer system improvements

Mackenzie Shuman

Apr 15, 2025

The Buffalo Sewer Authority had 20 years and an estimated $380 million to reduce the amount of raw sewage overflows plaguing the city from its century-old system.

Now, officials at the Sewer Authority said they will need more time, and a lot more money – $1 billion in total – to get the job done.

“The payoff of this is cleaner waterways and the economic development that will come with the amount of investment going into our infrastructure,” said Rosaleen Nogle, principal sanitary engineer at the Buffalo Sewer Authority. “We’re still benefiting from a system built 125 years ago and now we just need to bring it into this century.”

In 2014, the Buffalo Sewer Authority entered into a 20-year plan to reduce the amount of sewage and stormwater runoff that flows from the city’s combined sewer system and into local creeks and rivers. At the time, the Sewer Authority was accused of violating the federal Clean Water Act and its state discharge permit by failing to reduce the sewage pollution overflowing into the Niagara River, Black Rock Canal, Buffalo River, Scajaquada Creek, Cazenovia Creek, Cornelius Creek and Lake Erie basin.

People are also reading...

1 **Bills' interest in Gabe Davis reflects uncertainty behind top three receivers**

2 **Driver was 'distracted' in Thruway tour bus crash that killed 5 people, state police say**

3 **Alan Pergament: 'Hard Knocks' premiere has humor, 'stolen' moments ... and some yada, yada, yada**

4 **With preseason complete, our final Bills 53-man roster projection**

A small geyser of water from a blown diffuser flies into the air in an aeration tank at the plant.

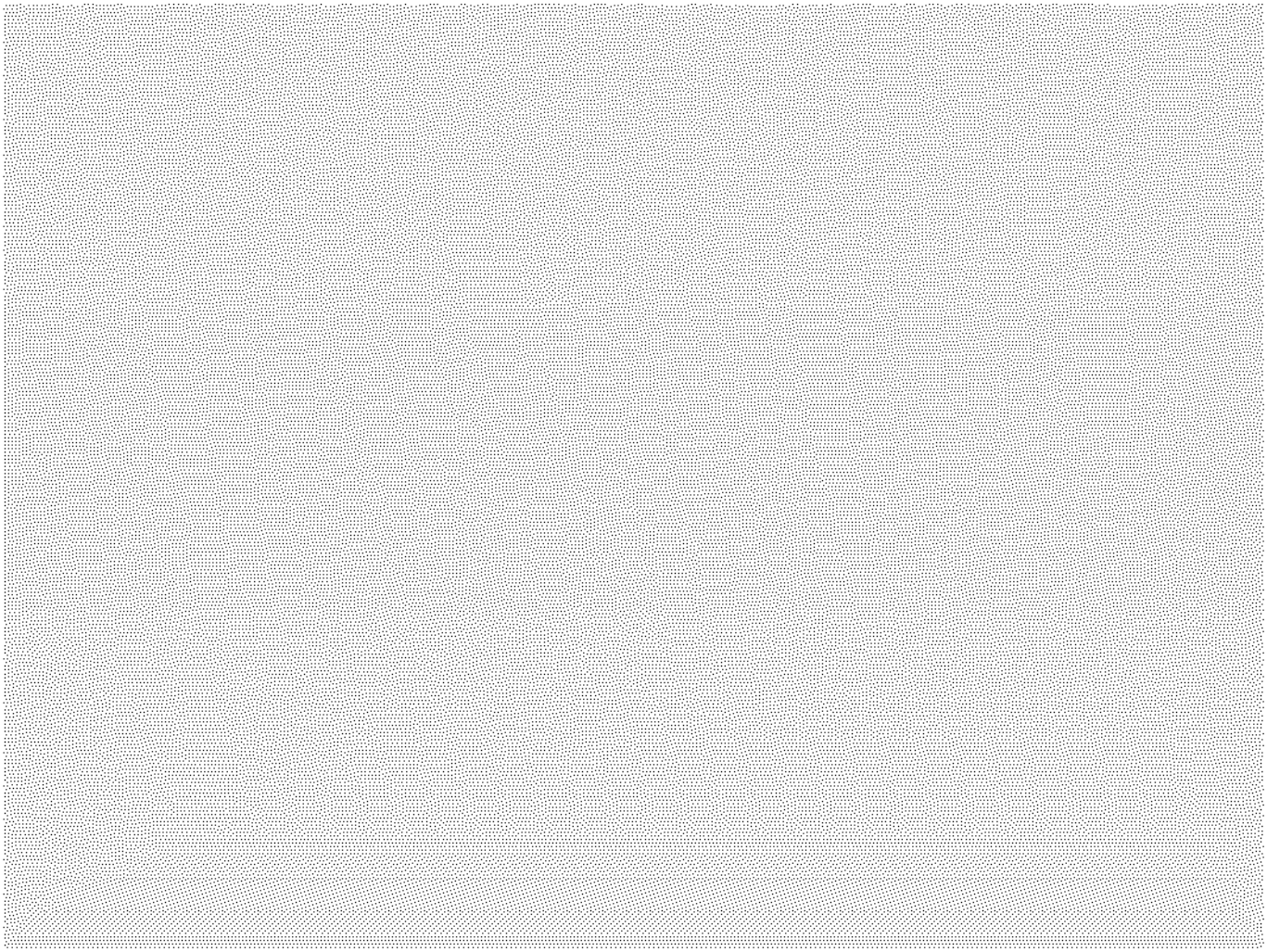
Joshua Bessex, Buffalo News

But it's been 11 years, and the Sewer Authority admits it cannot meet the 2034 deadline. Meanwhile, costs have ballooned since the original plan was set in motion.

The Sewer Authority has been negotiating with the U.S. Environmental Protection Agency, New York State Department of Environmental Conservation, state attorney general and federal Department of Justice since late 2023, hoping to buy more time to revise the 2014 Long Term Control Plan. It wants until 2040 to complete renovations to its Bird Island Wastewater Treatment Plant and related infrastructure projects throughout the city.

If approved, it will likely cost at least $1 billion to complete, Sewer Authority officials said, triple the original estimates.

A spokesperson with the EPA told The Buffalo News in an emailed statement that the agency “continues to work with the Buffalo Sewer Authority on this matter,” adding that the “EPA does not comment on active enforcement cases.”



Tim Blake, capital improvement projects manager at the Buffalo Sewer Authority, shows the new diffusers working inside an aeration tank at the Bird Island Wastewater Treatment Plant.

Joshua Bessex, Buffalo News

The Sewer Authority is relying on a combination of state and federal grants and loans to finance the bulk of the system improvements.

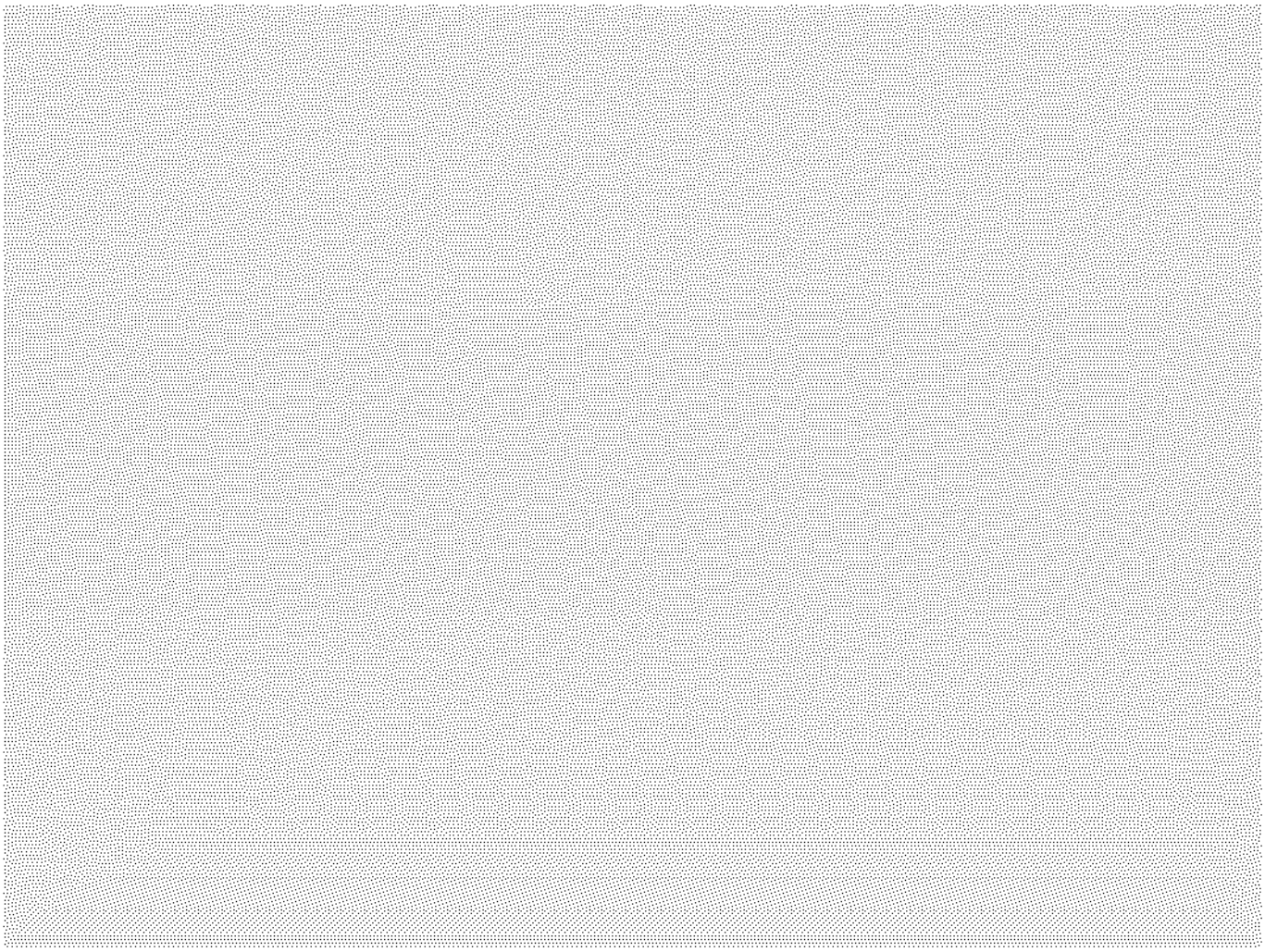
“We will continue to rely on our federal and state partners as much as we can to help defray these costs,” said Charles Riley, the Sewer Authority’s chief financial officer. “Our last step is passing costs on to our customers.”

Whether customers’ rates will increase remains to be seen while the Sewer Authority develops its latest budget, Riley said.

In the meantime, the Sewer Authority has been busy with renovations to its Bird Island Wastewater Treatment Plant.

Over the last several months, the facility has undergone long-needed renovations expected to cost a total of about $250 million.

The facility was mostly built in the 1930s and updated in the 1970s. Since then, it has worked to process the 80 million to 120 million gallons of wastewater that flow into it during a typical dry weather day, and up to 360 million gallons that flow in during wet weather days, Nogle said.



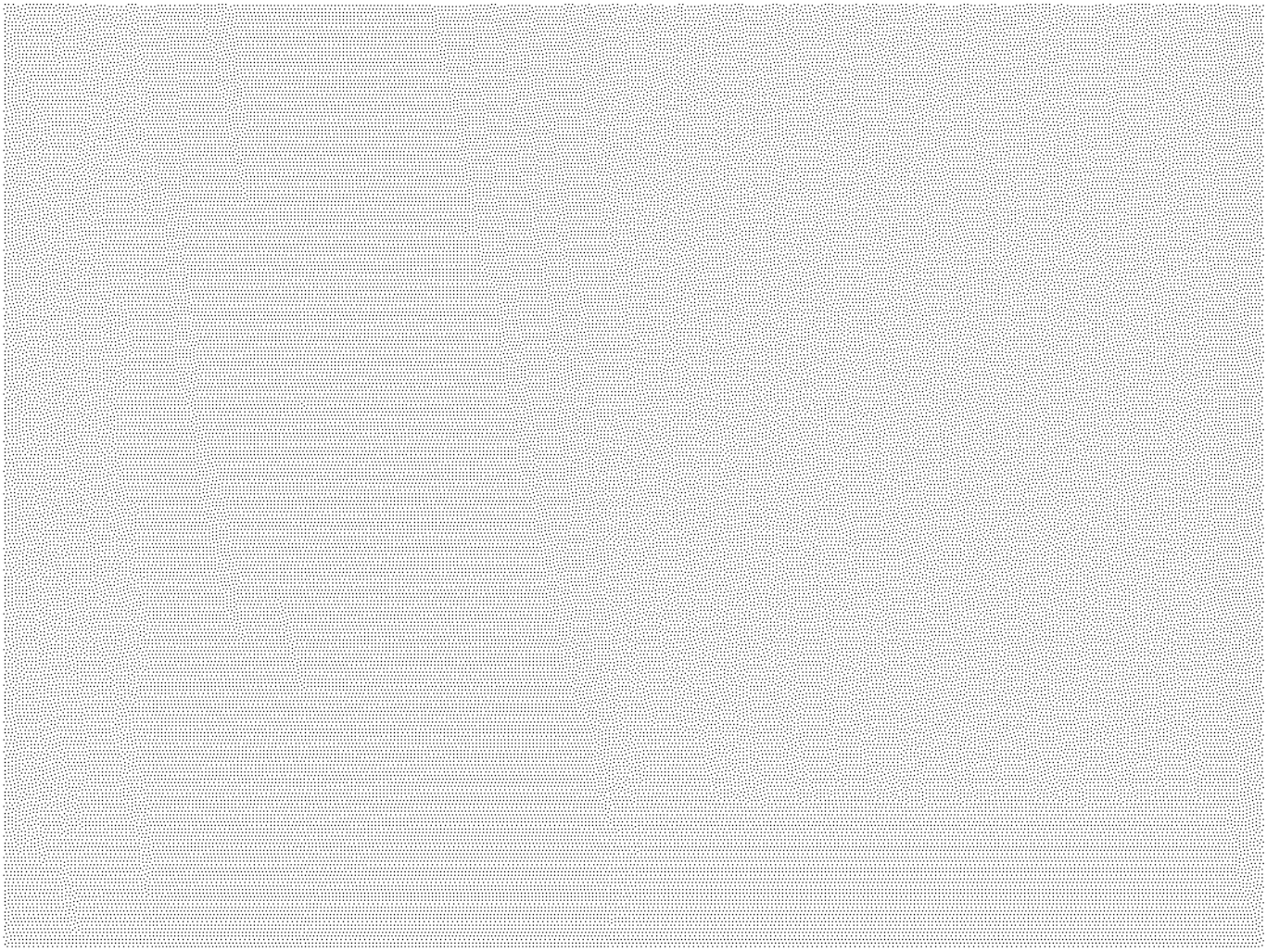
New diffusers, which pump air into the water inside an aeration tank, are visible just below the surface at the Bird Island Wastewater Treatment Plant.

Joshua Bessex, Buffalo News

Upgrades to the facility include changing the aeration tubes in the biological treatment tanks to ensure an even dispersion of air so the treatment is more efficient and effective, Nogle said. The Sewer Authority will also work to add chlorine contact tanks and upgrade system technology, she said.

The Sewer Authority also will add a deodorizing system.

“Back in the 1930s, the air in Buffalo was black and the smell of raw sewage was indistinguishable from the smell of burning coke ovens and everything else,” Nogle said. “Today, when our primary treatment system, especially in the middle of the summer, starts to get a little funky, people along Niagara Street can smell it.”



The Niagara River flows past the Bird Island Wastewater Treatment Plant.

Joshua Bessex/Buffalo News

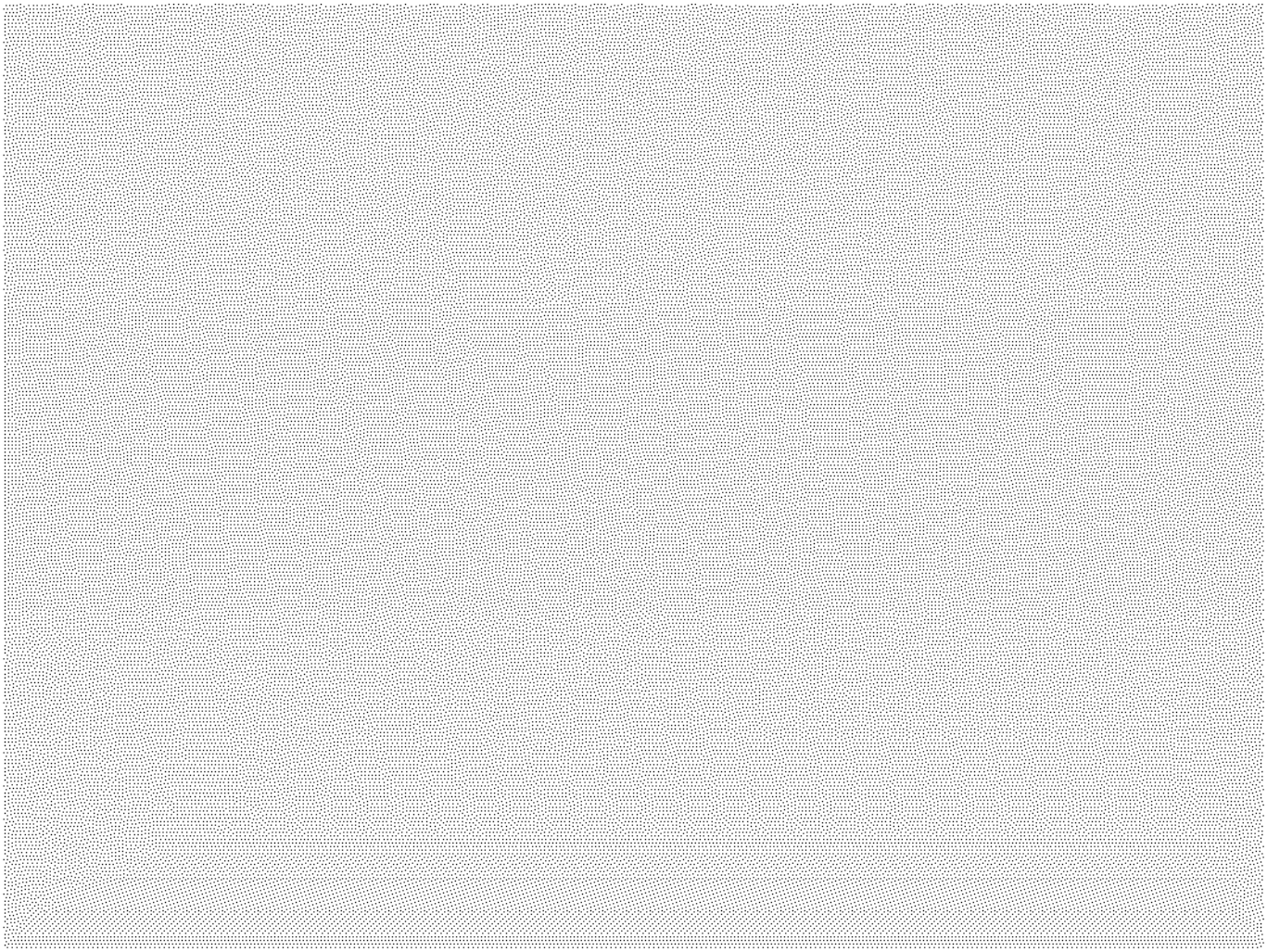
The deodorizing system should solve the issue, Nogle said, by essentially vacuuming up the odors and running the smelly air through filters.

The system should be installed by the end of 2028, Nogle said.

Outside of the Bird Island facility, the Sewer Authority plans to embark on about $750 million worth of projects in the city to improve the system as a whole.

The projects include installing green infrastructure. This could mean small projects – such as improving tree root wells, installing rain gardens and porous pavement – to large projects including underground stormwater storage systems.

“We are partnering with Buffalo Public Schools, Buffalo Municipal Housing Authority and with the City of Buffalo Department of Public Works through both their parks and their engineering departments to add more green infrastructure,” Nogle said. “We’re going to focus both in the school and low-income housing areas, but then also throughout the City of Buffalo along curb lines and then also in the parks themselves.”



The Buffalo Sewer Authority received a grant to help filter stormwater at Martin Luther King Jr. Park and three other parks in the city.

Derek Gee, Buffalo News

The Buffalo Sewer Authority **received $8.75 million** on Oct. 16 from Gov. Kathy Hochul and the New York State Environmental Facilities Corp. to help fund some of those projects.

The Sewer Authority is also embarking on dozens of other system improvement projects around the city.

These include redirecting sewer pipelines, expanding sewer pipelines, adding control mechanisms to prevent sewage overflows and building storage capacity that can be used during storm events.

Much of the work is expected to be done underground, mostly out of sight. However, traffic impacts could occur during construction of some of the projects, the Sewer Authority has warned.

To see a full list of the planned projects and their descriptions, visit the Sewer Authority's Queen City Clean Waters initiative website at **buffaloqccw.org**.

The Sewer Authority will hold three public forums to inform the public about the Queen City Clean Waters initiative. There, the public can ask questions and voice any concerns about the proposed projects.

The first meeting will be held at 6 p.m. April 17 in the Buffalo Irish Center, 245 Abbott Road.

That will be followed by another meeting at 6 p.m. on April 24 at Gerard Place, 2515 Bailey Ave., with a third held at 6 p.m. April 28 at Northland Training Center, 683 Northland Ave.

Reach climate and environment reporter Mackenzie Shuman at **mshuman@buffnews.com** or 716-715-4722.

By Mackenzie Shuman

Environment and climate reporter

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Queen City Clean Waters

Public Participation Forum

April 17th, 2025 – Buffalo Irish Center

BSA Capital Projects Program Management Team:

TYLin | Greeley and Hansen Water Solutions

Arcadis | JM Davidson Engineering | Hallmark Planning & Development | e3 Communications | Watts Architecture & Engineering | CORE Environmental | Atlantic Testing Laboratories | Frandina Engineering and Land Surveying | KHEOPS Architecture, Engineering and Survey | International Institute of Buffalo | Jade Stone Engineering | NASCO Construction Services | JKMuir | People Inc. | CWD Consulting

Disclaimer

- This Presentation is provided as of April 17, 2025.
- If you are viewing this Presentation after that date, subsequent events could have a material effect on this information.
- By presenting this information, Buffalo Sewer has not undertaken any obligation to update the information beyond the date of the Presentation.
- Data and other information provided are not warranted as to completeness or accuracy and are subject to change without notice.
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Agenda

BACKGROUND

OVERALL PLAN

SPECIFIC PROJECTS WITHIN COUNCIL DISTRICT

OPPORTUNITIES TO STAY ENGAGED

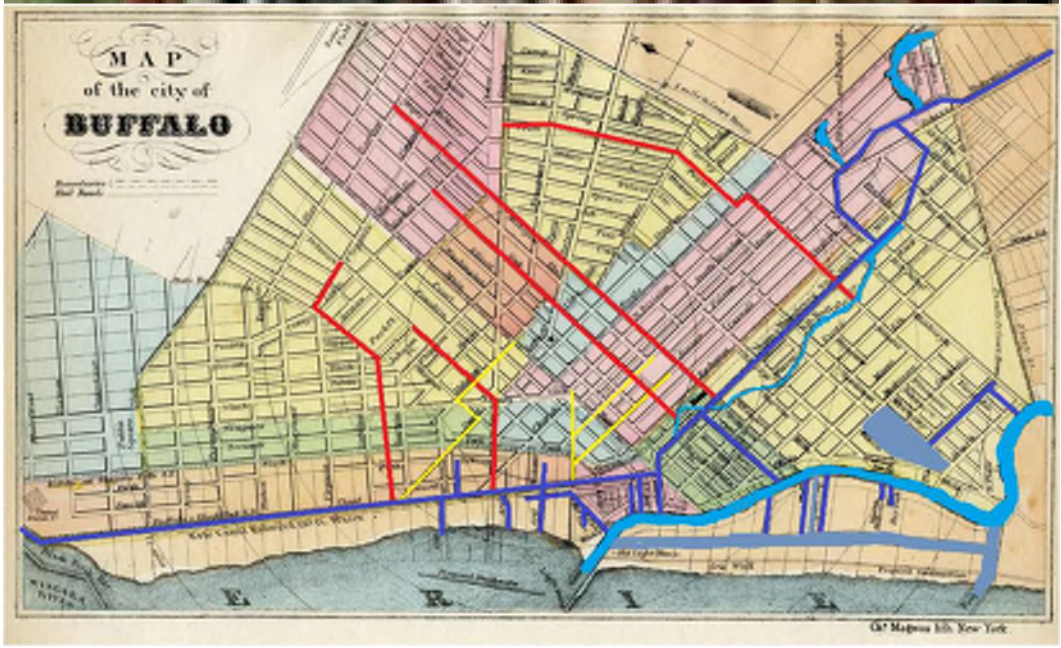
Key Terminology

- **CSO:** when a combined sanitary and storm sewer overflows into a waterbody during high flow precipitation events.
- **Interceptor:** large diameter sewer pipe that collects wastewater from smaller neighborhood pipes.
- **ILS:** the storage of wastewater temporarily within the existing sewer pipes.
- **OLS:** A tank that holds extra water when the sewer is full, then drains it to be treated when there's space.
- Orifice plate: A flow restricting device.
- **Overflow Weir:** a barrier that lets excess water flow over the barrier to control water levels.
- **RTC:** Sewer chambers with automatic gates store and release water to prevent overflows when the treatment plant is ready.
- **SPP:** A chamber that directs water to the treatment plant in dry weather or overflow area during heavy rain.
- **Underflow Pipe:** is a pipe that allows water to flow underneath a barrier to manage water levels to prevent flooding.
- **Weir:** a structure similar to a dam. Used to control water flow.

Background

A Brief History of Buffalo's Sewers

- Erie Canal opened in 1825
- Drain the Swamp
- Cholera epidemics
  - 1832
  - 1849
  - 1852



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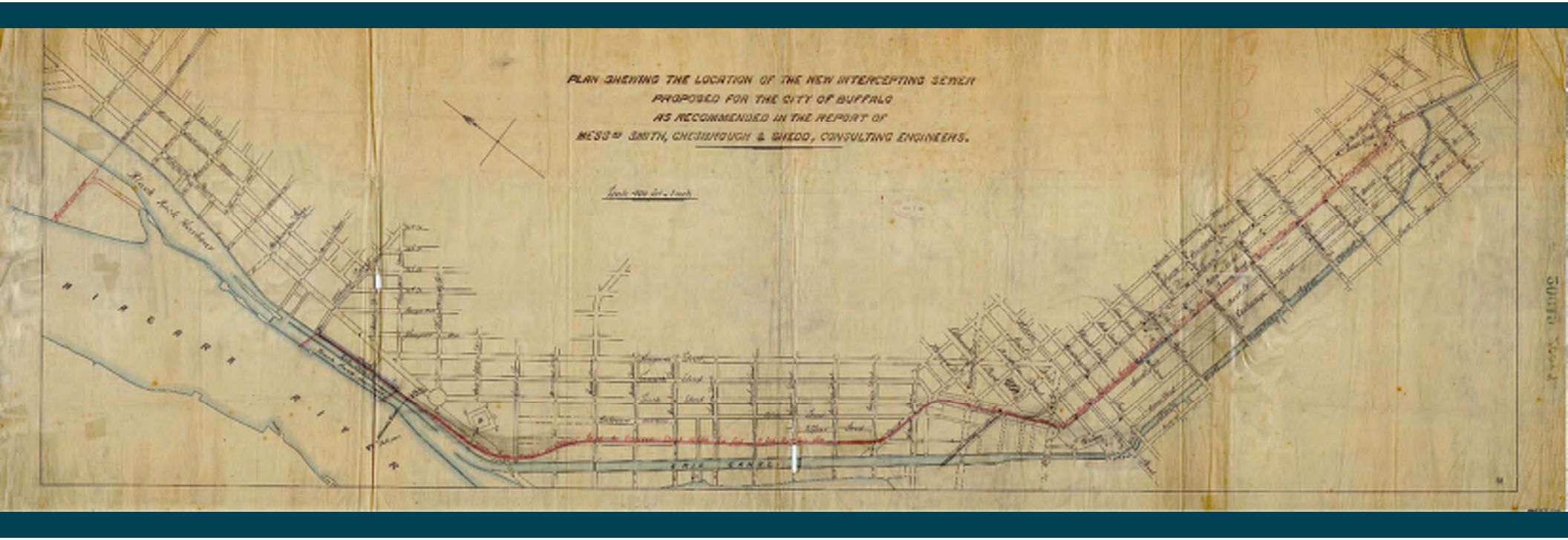
A Brief History of Buffalo's Sewers *(Cont.)*

- George E. Waring, Jr. 1884
- Considered, but rejected
  - Sewer separation
  - Treatment Facility
- Trunks
  - Genesee, Bird-Ferry, Hertel, Bailey, Mill Race
- Swan
  - Three flushing gates
  - Main & Hamburg Canal and Wilkenson Slip: putrid
  - 90 Degree turn at Albany Street
  - Bird Island Pier, now the tip of Freedom Park

The Swan Trunk



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1900-1929: Burying of Waters

Waterways → Sewers

- Main Hamburg Canal to Hamburg Drain 1901-1903
- Ohio Basin to Ohio Drain 1902-1904
- Cornelius Creek to Hertel Avenue Overflow Drain 1914
- Scajaquada Creek to Scajaquada Drain 1925

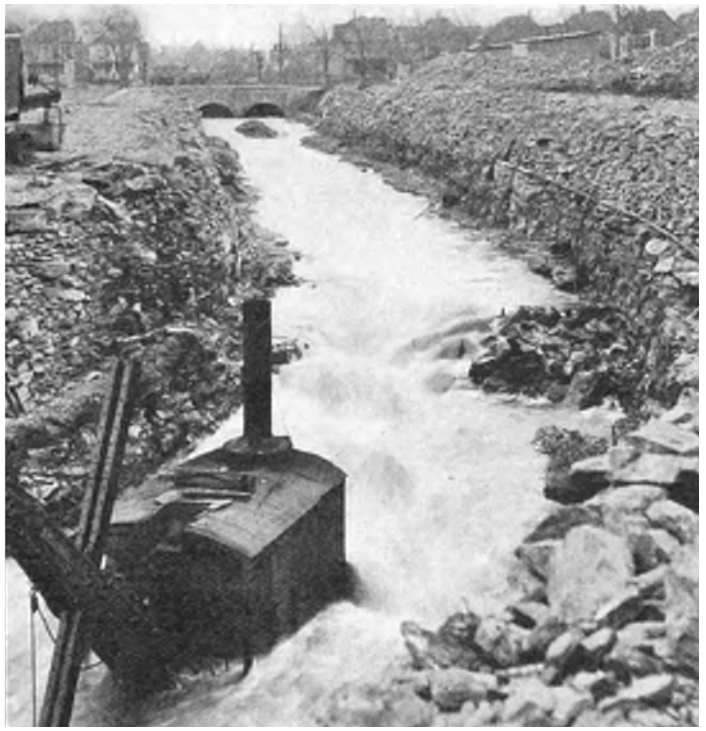
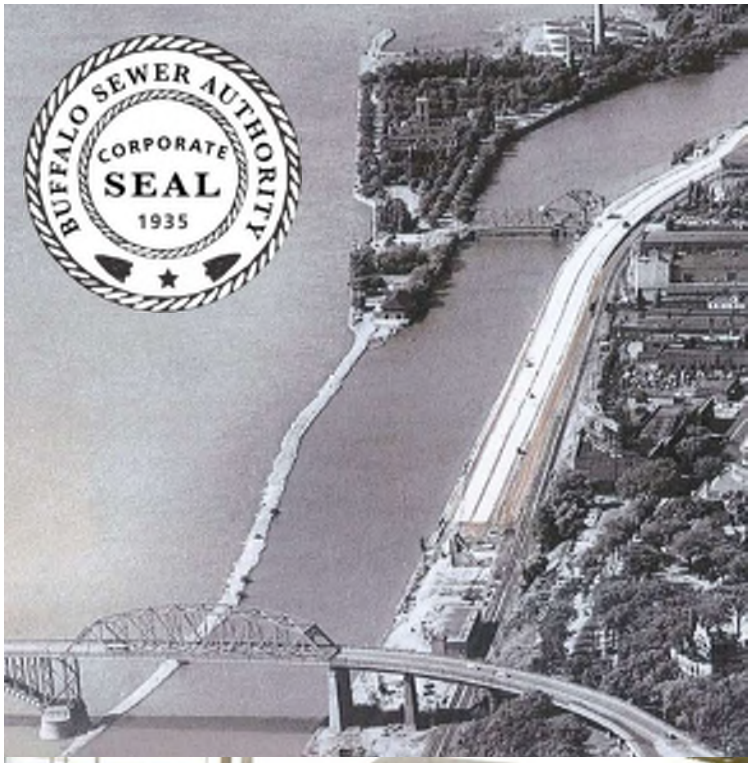


Photo Credit: wnyheritage.org/content/scajaquada_drian_project_-_1920s/index.html

Buffalo Sewer Authority's Founding

- 1907 Canadian Report:
  - Niagara Falls, NY Typhoid Rate
  - 0.2% Population Dying Each Year
- International Joint Commission: January 11, 1909
- 1918 Report: 80% Niagara River Pollution from Buffalo
- NYS Dept. of Health Mandate: March 1935
  - Primary Sewage Treatment Plant
  - Interceptor Sewers
- Establishment of BSA: April 8, 1935
  - $15 M Bonding Capacity ($344 M 2024)



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1941-1970: Storm Relief and Sprawl

NYS Route 33

- Severed Bird-Ferry Trunk
- Stormwater added to system
- New pump station for stormwater and groundwater
- New trunk sewers constructed

I-198

- New storm sewers
- Direct discharge to Scajaquada Creek

I-190

- Old Erie Canal bed
- On top of:
  - Swan Trunk
  - Interceptors
  - Hamburg Drain

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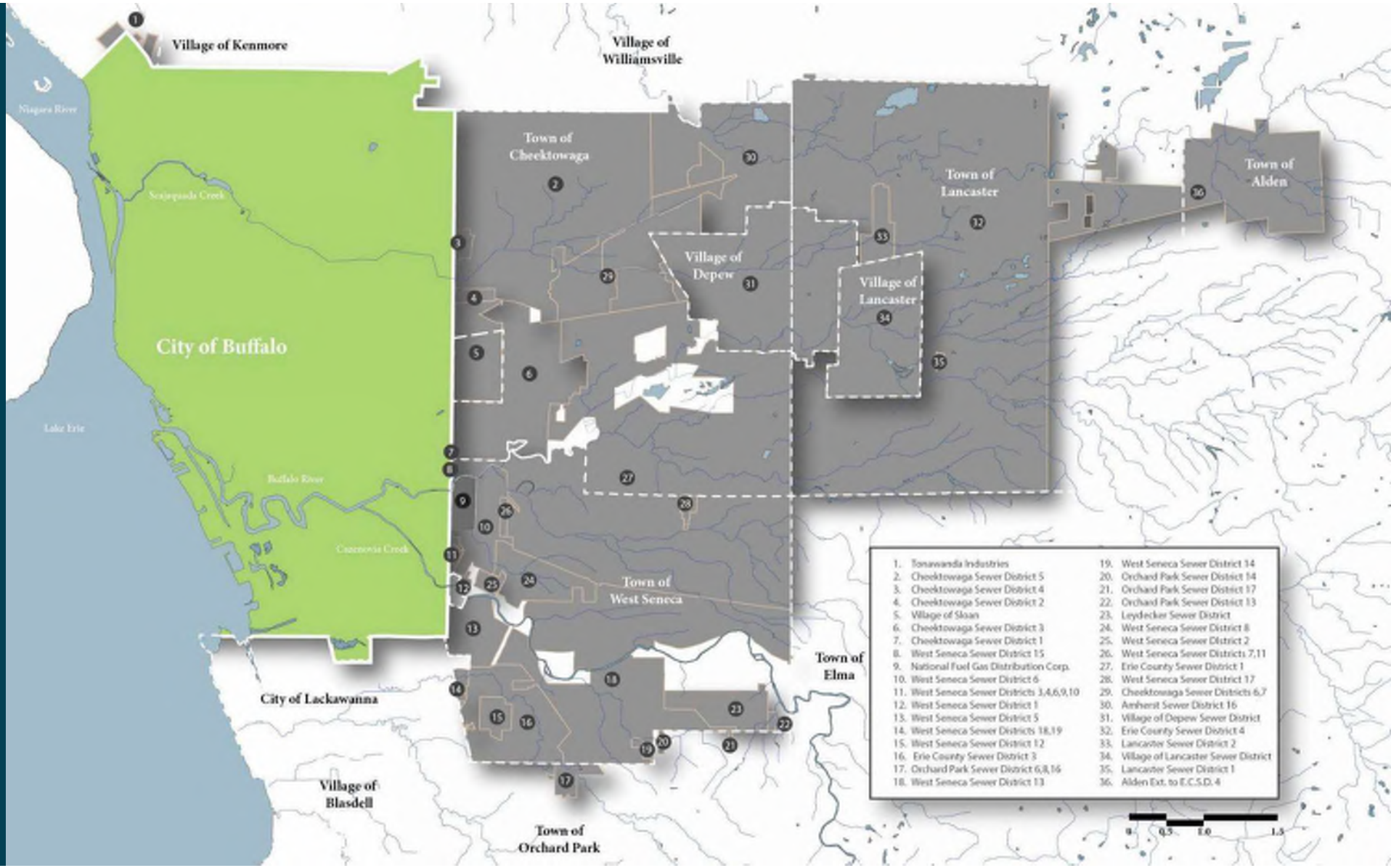
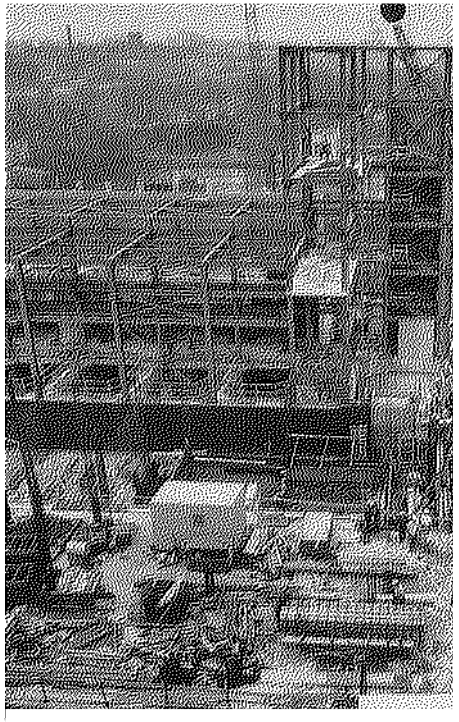
1941-1970: Storm Relief and Sprawl



Clean Water Act (1972)

- Scajaquada Tunnel
- Weir Modifications
  - Diversion from Scajaquada Drain to Tunnel
  - Raising of Weirs
- Kelly Island Connection
- Backwater Gates
- Secondary Treatment Process



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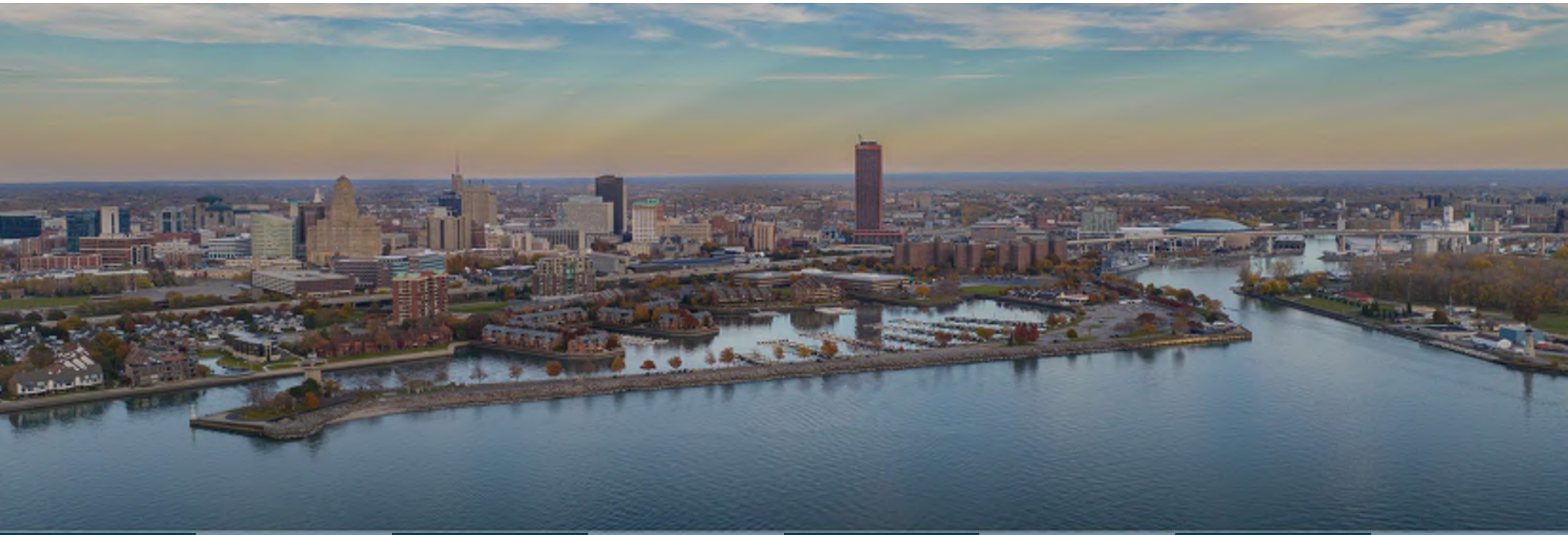

1994

USEPA CSO Control Policy Issued (Required Development of LTCP)

2004

Submitted Initial LTCP to New York State Department of Environmental Conservation (NYSDEC)

2007

NYSDEC/USEPA Request Additional Evaluations

2009

Negotiation of Consent Decree Begins

2012

Submitted LTCP Update to USEPA/ NYSDEC (as directed by regulatory agency

2014

Final LTCP Report Submitted to USEPA/NYSDEC

2022

Revised collection system model is approved

2023

QCCW (51 proposed projects) submitted to NYSDEC

Approved Recalibration Results

- Some Combined Sewer Overflows (CSOs) Already in Compliance (Some Projects Not Needed)
- LTCP Does Not Reach Compliance for Others!

Waterbody	Activation Goals	Projected Activations
Buffalo River	6	15
Niagara River	9	14
Scajaquada Creek	4	19

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Combined Sewer Overflows Compliance

Combined Sewer Overflows							
003	004	005	006	007	008	009	010
011	012	013	014	015	016	017	022
023	025	026	027	028	029	031	032
033	035	037	038	039	040	042	044
046	047	048	049	050	051	052	053
054	055	056	057	058	059	060	061
062	063	064	066				

Proportion in Each Compliance Category

37 8 7

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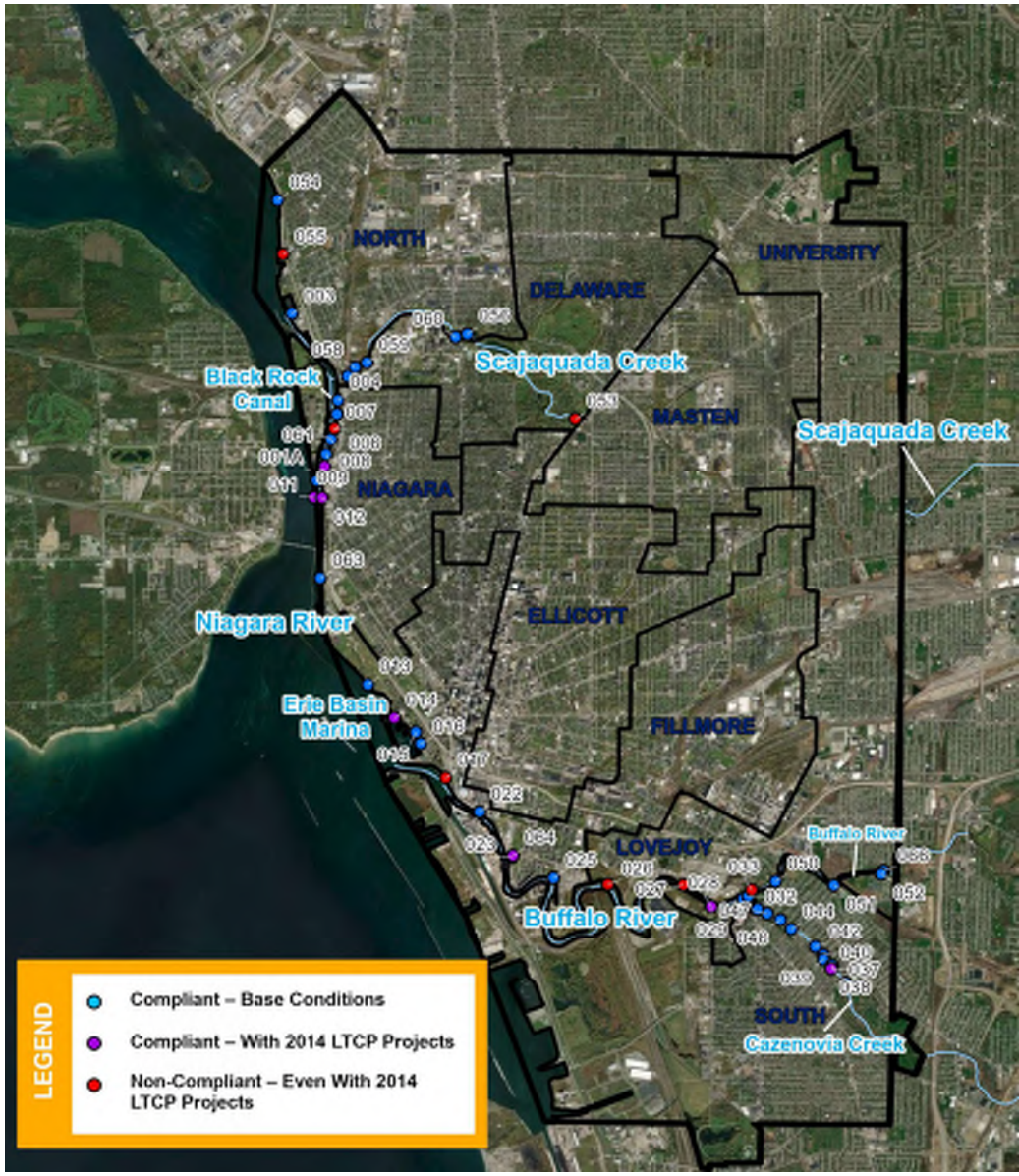
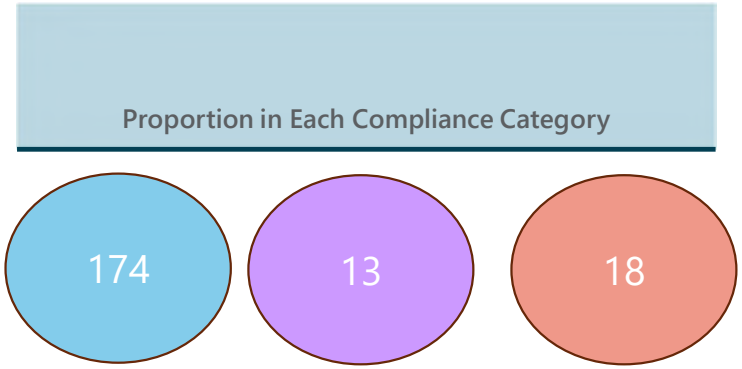
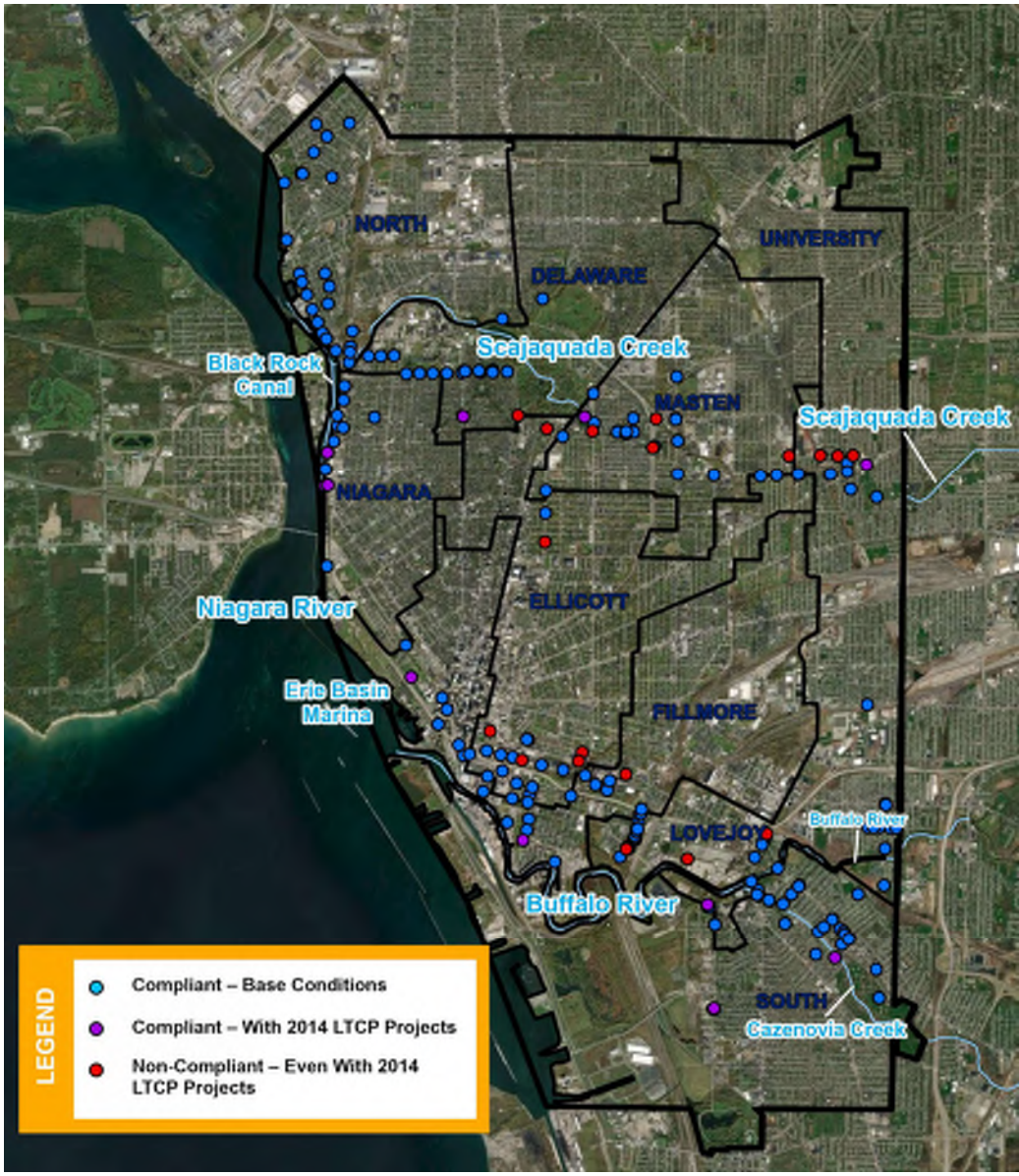


Sewer Patrol Points (SPP) Compliance





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AH4

Development of Activation Targets

ACTIVATION = OVERFLOW OCCURRENCE

Waterbody	Activation Goals	Selected Alternatives Completion Activations
Black Rock Canal	0-4	4
Buffalo River	0-6	6
Cazenovia Creek - B	0-0	0
Cazenovia Creek - C	0-6	5
Erie Basin Marina	0-2	2
Niagara River	0-9	9
Scajaquada Creek	0-4	4
Overall	0-9	9

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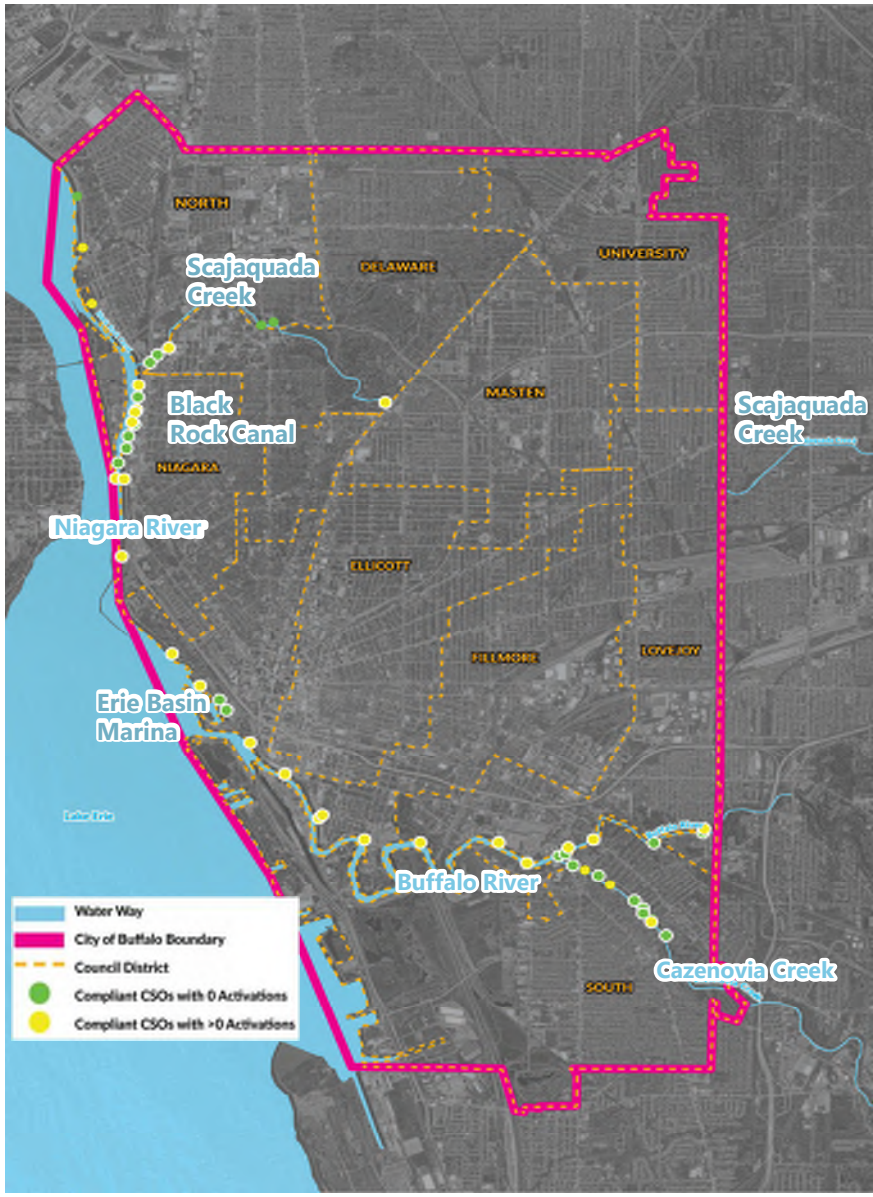


Lessons Learned from the 2014 LTCP

WHY WAS THE OPTIMIZATION DONE?

Feasibility Constraints for Baseline Projects in the 2014 LTCP:

- Many proposed projects were unfeasible due to compliance issues and costs, highlighting a lack of thorough consideration regarding industrial heritage and the specifics of infrastructure design, such as the differences between open and underground tanks for vehicle support.

AH1

Constraints of Offline Storage (OLS) and Storage Tunnel Projects:

Land Acquisition

Environmental Justice

Operational Cost

Depth of Bedrock

BUFFALO

RN3

Optimization Approach

Globally Coordinated Control Strategy

Real time control (RTC) sites collaborate to prevent overflows and reduce peak flows, regardless of local conditions.

System Evaluation Considerations and Constraints

- Property ownership
- Underground contamination concerns
- Gravity flow vs. pumping
- Prioritization of sewer patrol points (SPP) with low activation requirements and high overflow in baseline projects
- Potential coordination

Original Projects Considered

77 projects including In-line (ILS) and Off-line Storage (OLS), Green Infrastructure, Sewer Separation, and Sewer Patrol Point (SPP) Modification

Optimization Rounds

- Project alternatives per SPP
- Full system optimization
- Minimizing cost while achieving compliance

Tools Used

Cloud computing for alternatives analysis

Outcome

51 projects identified as Selected Alternatives

Queen City Clean Waters (QCCW) – Mission and Vision

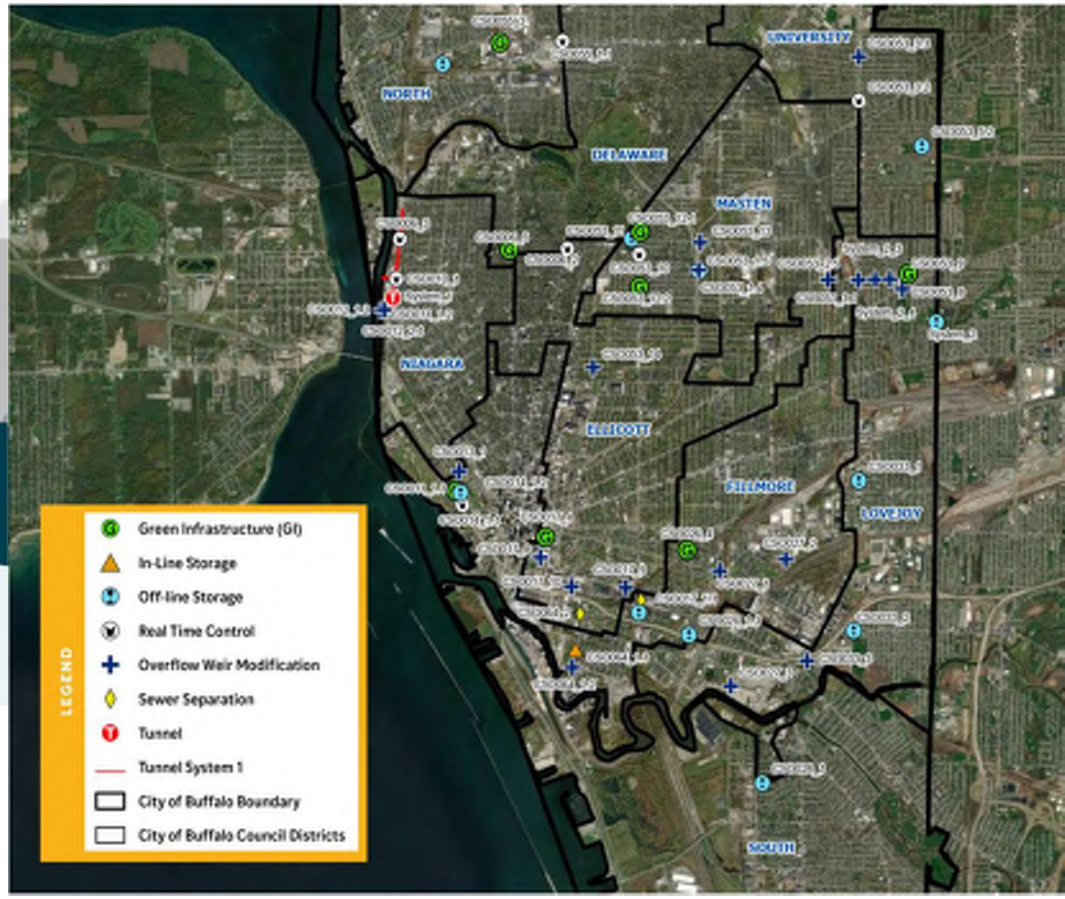
BUFFALO SEWER AUTHORITY
QUEEN CITY CLEAN WATERS

VISION
Clean waters and a resilient Buffalo.

MISSION
To safeguard public health and the environment while fostering strong community partnerships, creating meaningful workforce opportunities, and driving lasting economic impact for future generations in Buffalo.

Queen City Clean Waters

PROGRAM OVERVIEW



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Overall Plan

AH1

Construction Impacts and Mitigation Measures

- During construction, residents can expect to see equipment and traffic cones off to one side of the road.
- Temporary disruptions, such as noise and dust, will be minimized as much as possible.
- Sewage odors will NOT be present in homes but may be present outside.

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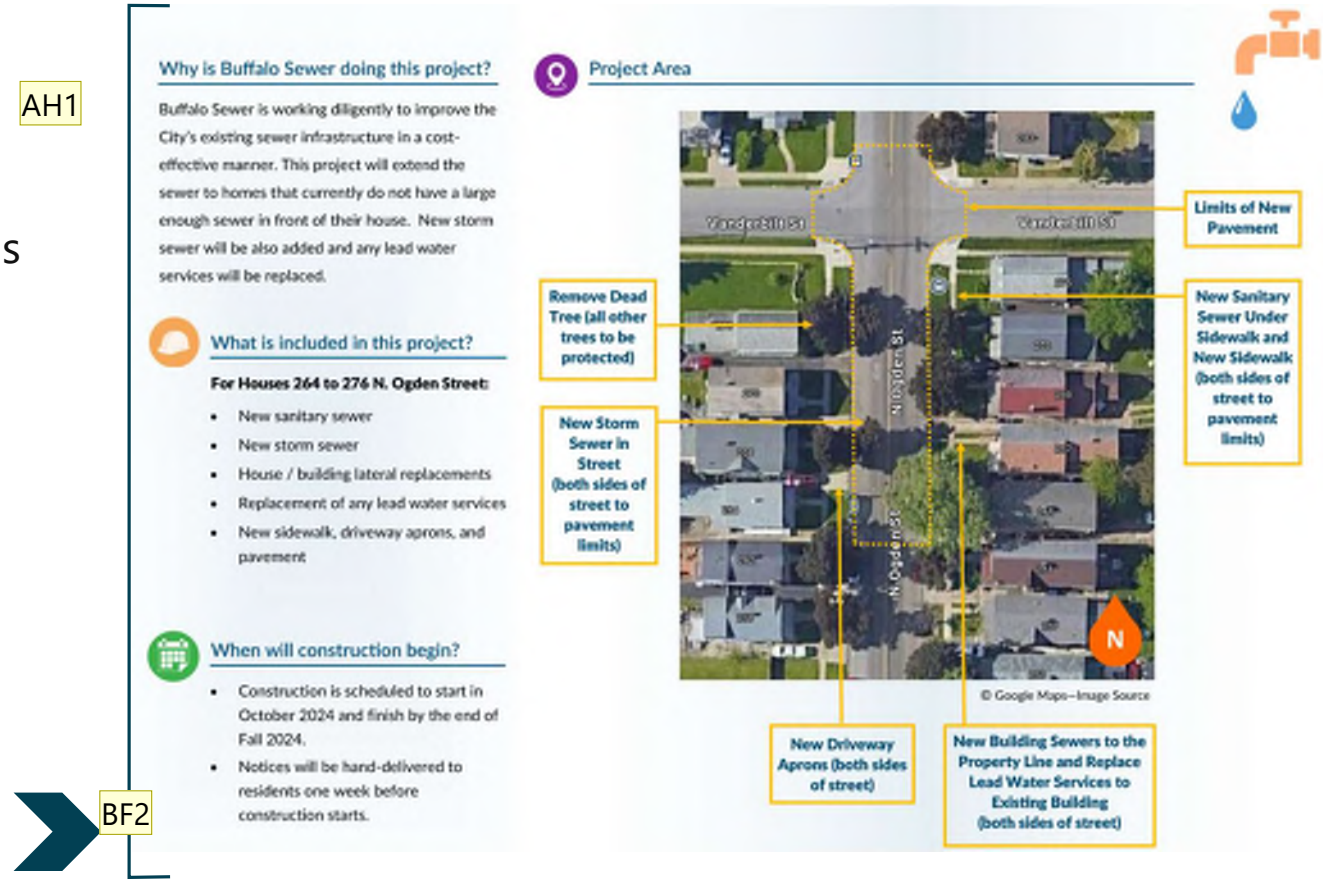
Construction Impacts and Mitigation Measures

- Residents may experience temporary sewer and water service interruptions for a few hours, with advance notifications provided.

AH1

- These interruptions will not last days. We will address concerns about explosives, drilling, dust, and air pollution, and manage environmental hazards like asbestos and PCB-laden soils per best practices.

BF2



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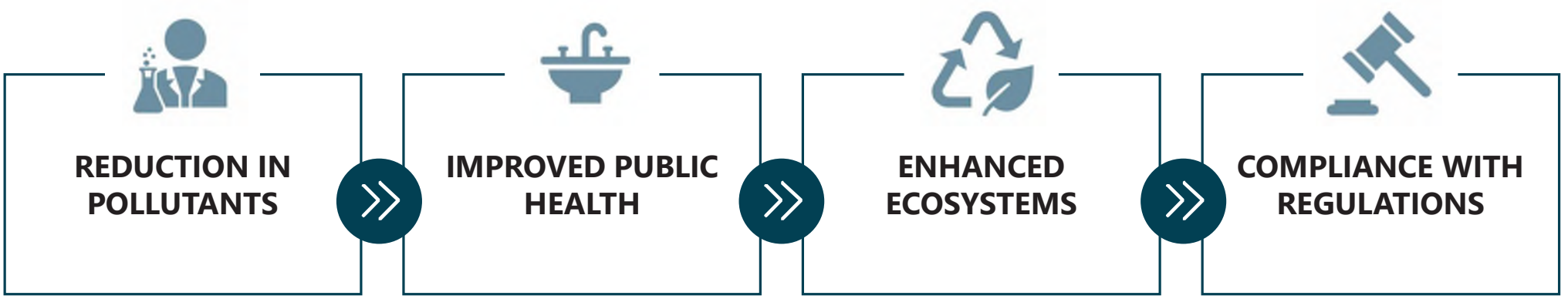
Construction Impacts and Mitigation Measures

- New traffic patterns will be in place during construction, including:
  - Partial or full road closures
  - Sidewalk closures
  - Limited street parking
  - Possible detours (for vehicles, cyclists and pedestrians)/ relocated bus stop
  - Fencing and site visibility

Water Quality Benefits



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Community Engagement & Stakeholder Outreach

Queen City Clean Waters Stakeholders

Residents	Delaware, Ellicott, Filmore, Lovejoy, Masten, North, Niagara, South, and University Districts
Local Government Officials	Elected Officials
Community-Based Organizations	Resident advocacy groups, including some in Queen City Clean Water's Stakeholder Advisory Council
Stakeholder Advisory Committee	Northland Workforce Training Center, PUSH Buffalo, Buffalo Urban League, Board of Block Clubs, NAACP, Jericho Road, LISC, Buffalo Niagara Waterkeeper, City of Buffalo Office of Strategic Planning, and Buffalo Center for Health Equity
Businesses	Local businesses that may be affected by construction activities or changes in water rates
Environmental Groups	Organizations focused on water quality and environmental sustainability
City Agencies	Entities responsible for water supply and infrastructure, including parks and recreation, will be involved in implementing the plan

Program Management Impact:
Equity Indicators + Desired Outcomes

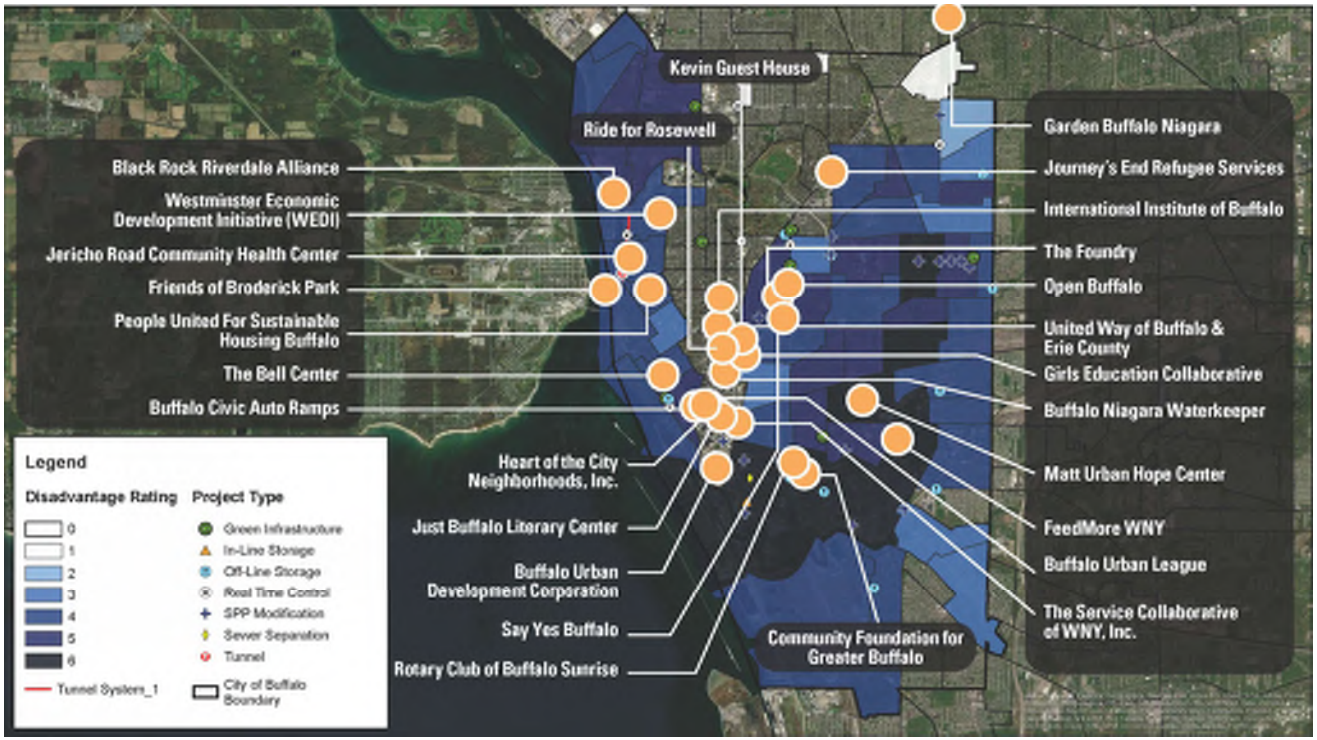
1	2	3	4	5	6	7
Community Ownership	Capacity Building	Healthy Communities	Heritage Preservation	Sustainable Wealth Creation	New and Reformed Policy for Sustainable Development	Growth Management and Neighborhood Development

Observation — Discovery — Planning and Application

Partner with Anchor Institutions to Reach the Community

Build a robust **Community Benefits Program** of community partnerships and **Stakeholder Advisory Committee** comprised of community leaders and residents

Accountability + Transparency: Indicators, representation, how are resources distributed and made available

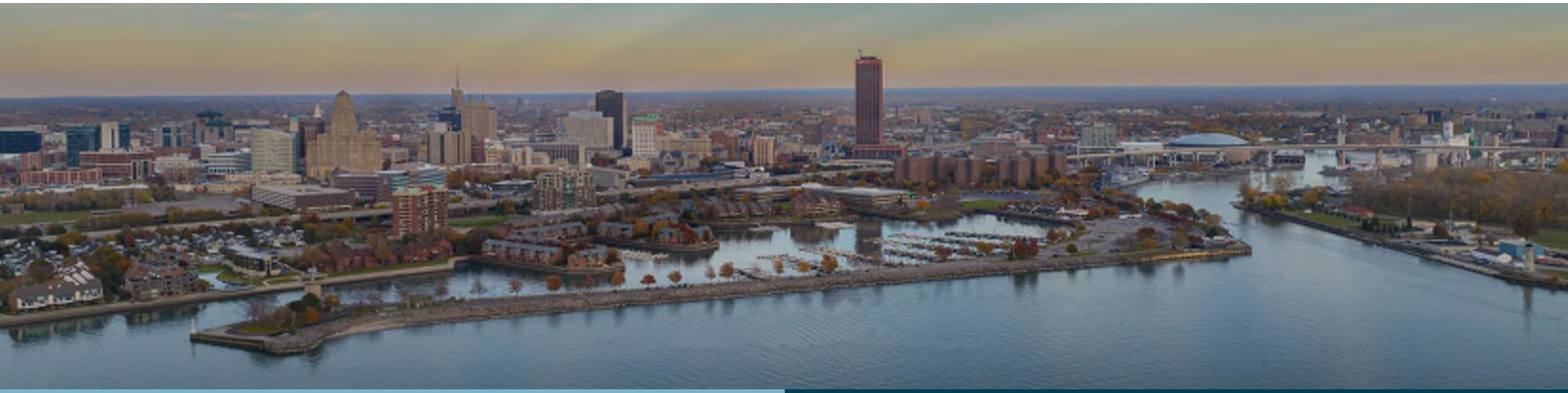


Stakeholder Advisory Committee (SAC)

The purpose of the Stakeholder Advisory Committee (SAC) for the Buffalo Sewer Authority's Queen City Clean Waters Initiative is to serve as a vital bridge between the project team and the diverse communities of Buffalo. The SAC ensures that community perspectives, concerns, and insights are actively incorporated into the initiative's planning, implementation, and evaluation.

Organizations & Agencies Represented:

- Northland Workforce Training Center
- PUSH Buffalo
- Buffalo Urban League
- Board of Block Clubs
- NAACP
- Jericho Road
- Local Initiatives Support Corporation (LISC)
- Buffalo Niagara Waterkeeper
- City of Buffalo Office of Strategic Planning (OSP)
- Buffalo Center for Health Equity



Buffalo Sewer wants to ensure construction and professional services contracts deliver a positive economic, environmental, and social impacts for residents.

Companies working with Buffalo Sewer are encouraged to support Buffalo nonprofits through volunteerism or financial contributions to defined community partners. The program will be included in contract terms and compliance monitoring to ensure effective participation.

COMMUNITY PARTNERSHIP PROGRAM

Coming in 2025

The Why:

Collaboratively, our aim is to create a meaningful and positive impact within the communities and neighborhoods served by the Authority by creating an avenue for community partnerships to form with consultants and contractors of the Buffalo Sewer Authority.

EDUCATION

Supporting educational programs and initiatives, particularly focusing on Science, Technology, Engineering, Arts, and Mathematics (STEAM). These programs aim to equip individuals with the knowledge and skills necessary to excel in these fields. By fostering a strong foundation in STEAM, the program will inspire the next generation of innovators and problem-solvers who can contribute to the community's growth and sustainability.

WORKFORCE DEVELOPMENT

Support of existing and creation of comprehensive job training programs that prepare individuals for employment. These programs will provide hands-on training, certifications, and career development opportunities. By building a skilled workforce, the program aims to support the local economy and ensure that our community has the expertise needed to maintain and improve essential infrastructure.

ECONOMIC DEVELOPMENT

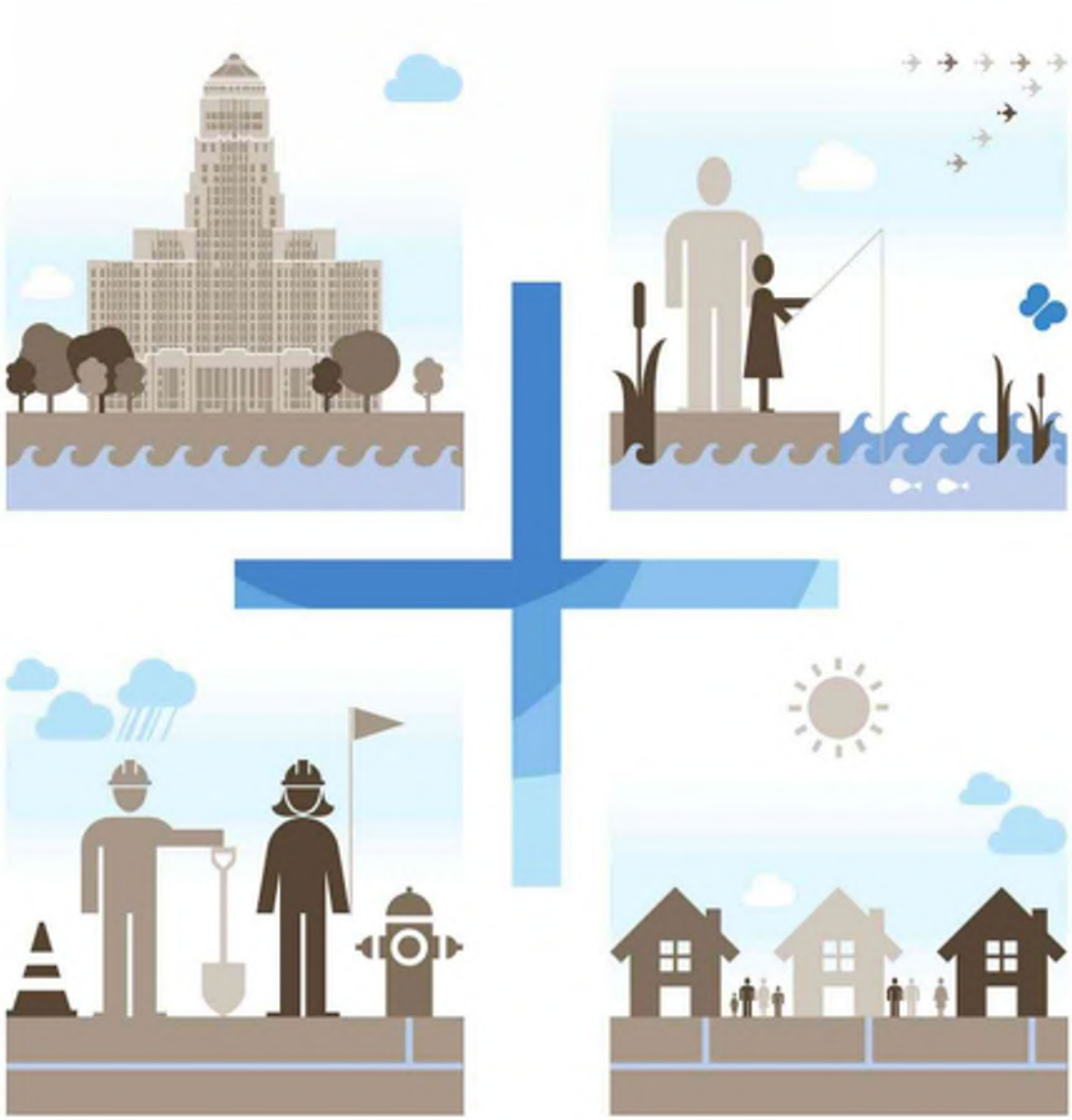
We are dedicated to promoting local economic growth by supporting infrastructure projects that create jobs and stimulate economic activity. Through strategic partnerships with local businesses, contractors, and community organizations, the program aims to drive economic prosperity and enhance the quality of life for residents. The efforts will focus on sustainable development that benefits both the economy and the environment.

PUBLIC AND ENVIRONMENTAL HEALTH

Improving public health and environmental quality is central to the mission and serves as a key driver for enhancing overall well-being. This program is designed to support both community members and public spaces, fostering their care and development for a sustainable future.

Potential Community Benefits Program Areas

- Workforce Development
- Economic Development
- Education
- Community and Environmental Health



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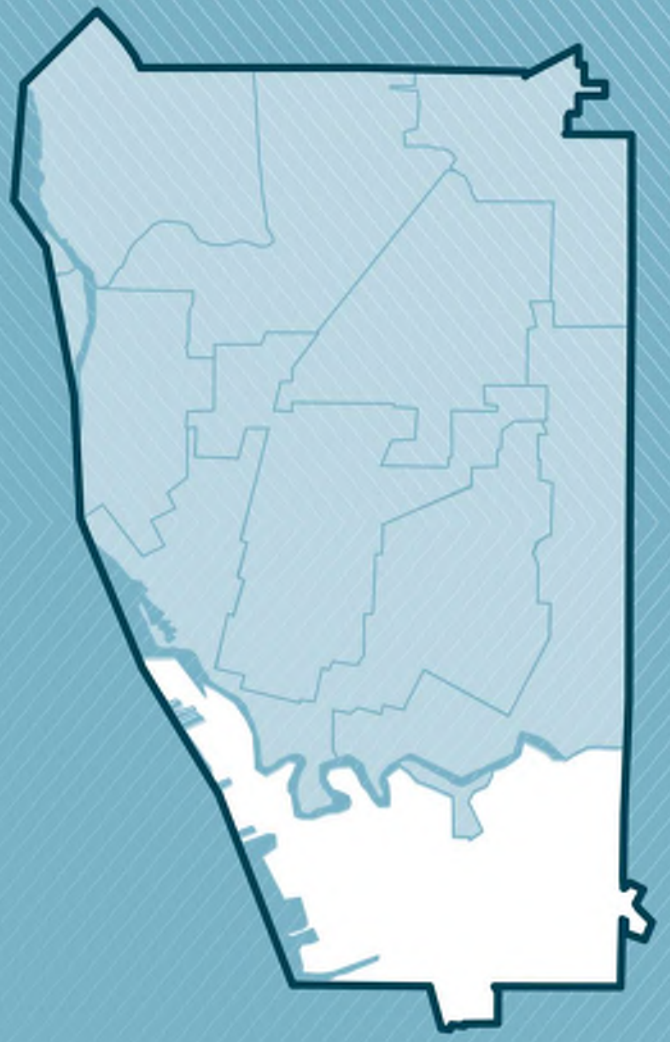
BSA's Commitment to the Inclusion of DBE/MWBE Firms

PURPOSE

- Create economic opportunity for Disadvantaged/Minority/ Women – Owned Business Enterprise (D/MBE/WBE) firms, including firms who are new to working with BSA and/or the City of Buffalo
- Promote meaningful teaming arrangements, mentorship, and partnership between established, experienced firms and new and/or smaller firms

South District

Specific Projects



Hopkins & Osage

OFFLINE STORAGE (OLS)

Project Description:

- Stores flow from the Hopkins Street sewer
- 0.95 MG tank located at the eastern end of Osage Street
- Storage operation:
  - Dewaters when there is available capacity in the South Park Avenue sewer.
  - Ensures no risk of overflow

Estimated Cost: $17,640,000

Waterbody Impacted: Buffalo River

TIMELINE ▼

Design Start Date
March 2031

December 2033
Design Completion Date

Proposed Construction Start Date
June 2034

September 2039
Proposed Construction End Date

Kelly ‘F’ Pump Station

Project Description:

– Remove Existing Non-Operational Dry Well System

– Install New Dry Well Pump System Including: Pump System, Fats, Oil & Grease System, HVAC & Electrical Systems

–Improve Layout to reduce operations personnel's safety and maintenance concerns

Estimated Cost: $1,760,000

Waterbody Impacted: Lake Erie

TIMELINE ▼

Design Start Date
April 2024

February 2025
Design Completion Date

Proposed Construction Start Date
August 2025

Spring 2026
Proposed Construction End Date

South Buffalo Pump Station

Project Description:

- –Pump Upgrades: Improving three main pumps.
- –Water System: Enhancing the seal water system.
- –HVAC Replacement: New heating and cooling system.
- –Control System: Upgrading control systems and communication with the wastewater plant.
- –Building Improvements: General building upgrades and better equipment access.

Estimated Cost: $16,500,000

Waterbody Impacted: Buffalo River

TIMELINE ▼

Design Start Date
July 2024

February 2025
Design Completion Date

Proposed Construction Start Date
February 2026

April 2028
Proposed Construction End Date

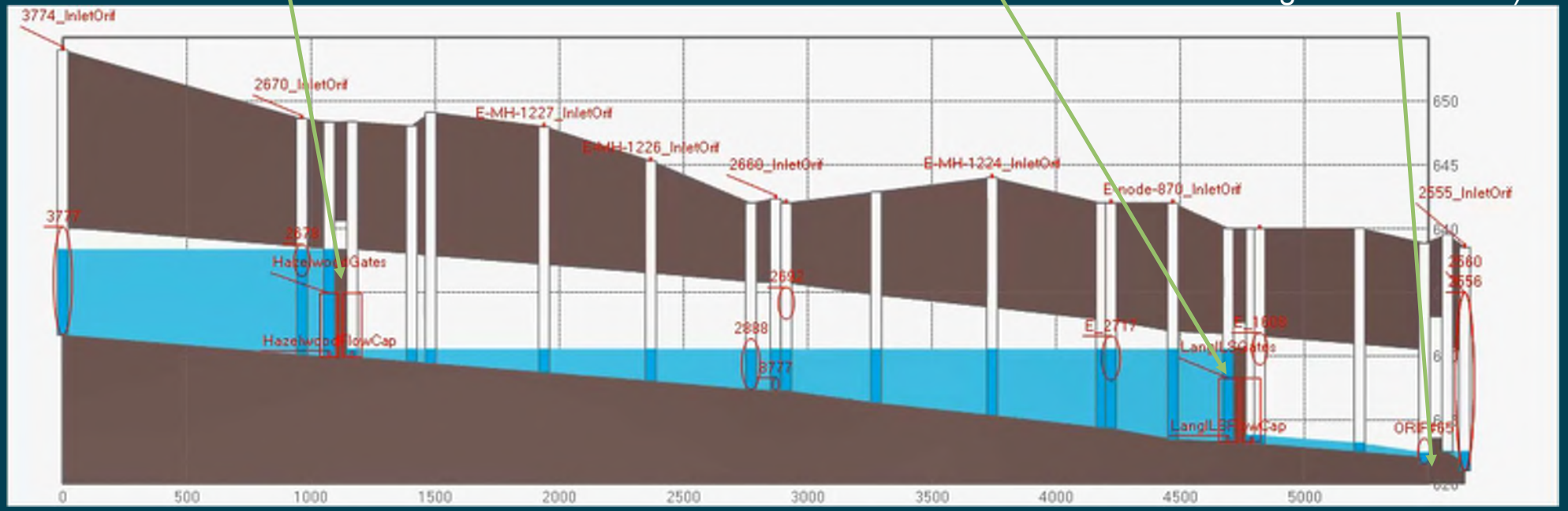
Hertel at Deer In-Line

Coordinated Remote Control for In-Line Storage

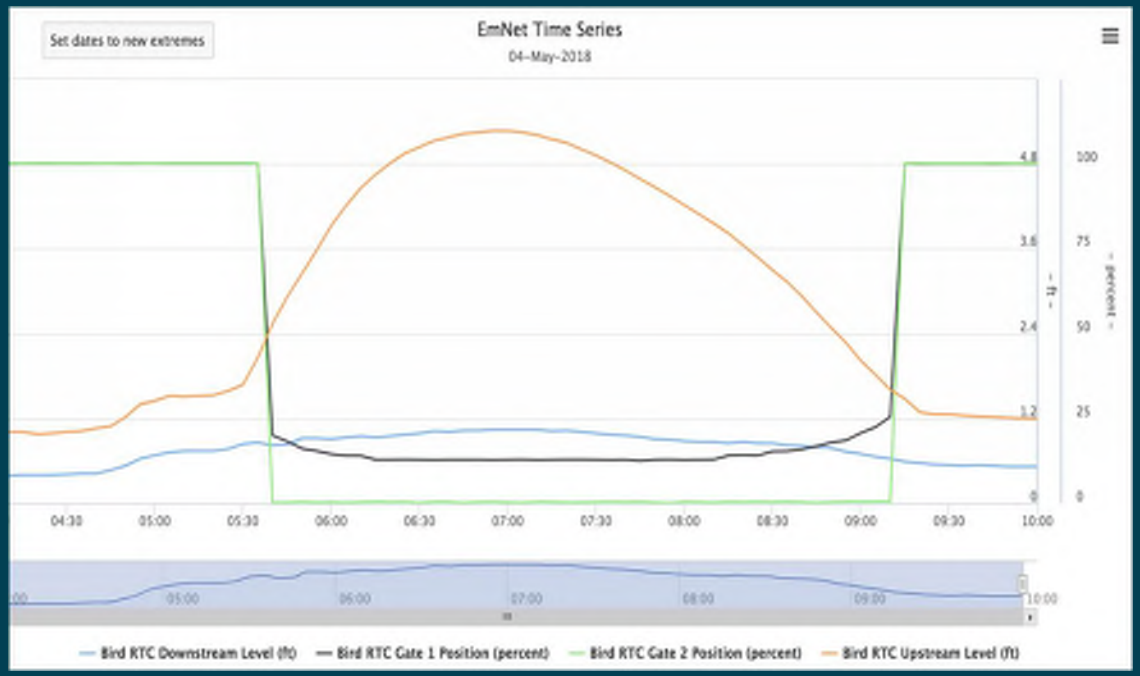
Hazelwood RTC, commissioned in 2019

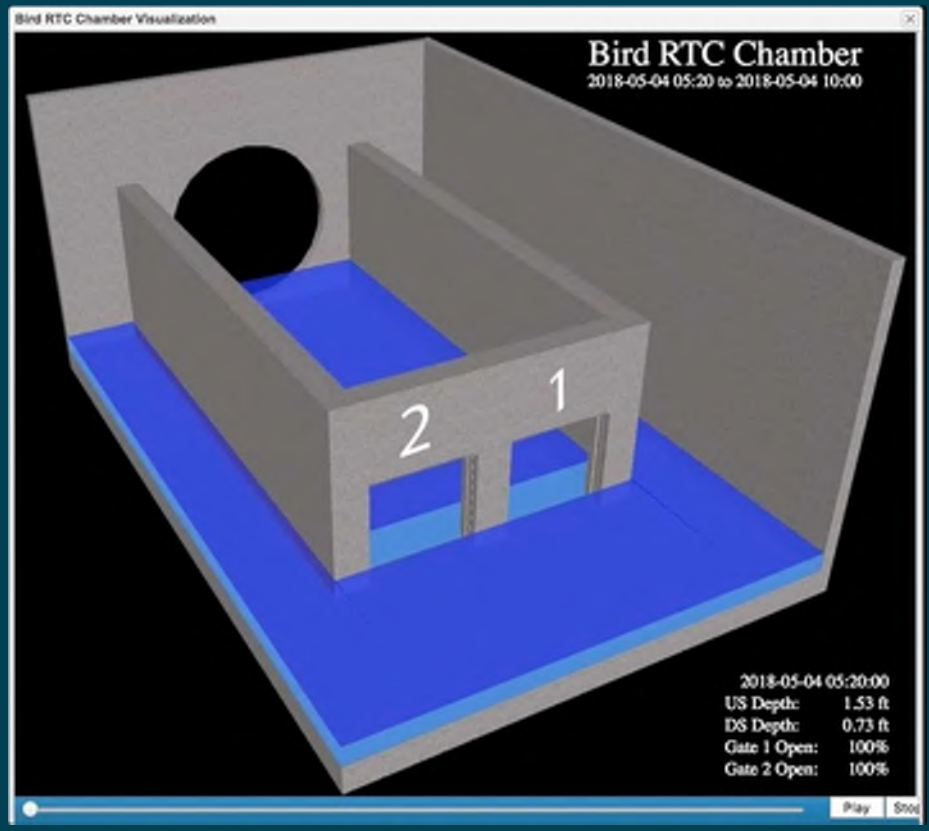
Lang Ave RTC, commissioned in 2017

SPP340 (CSO Regulator Chamber)



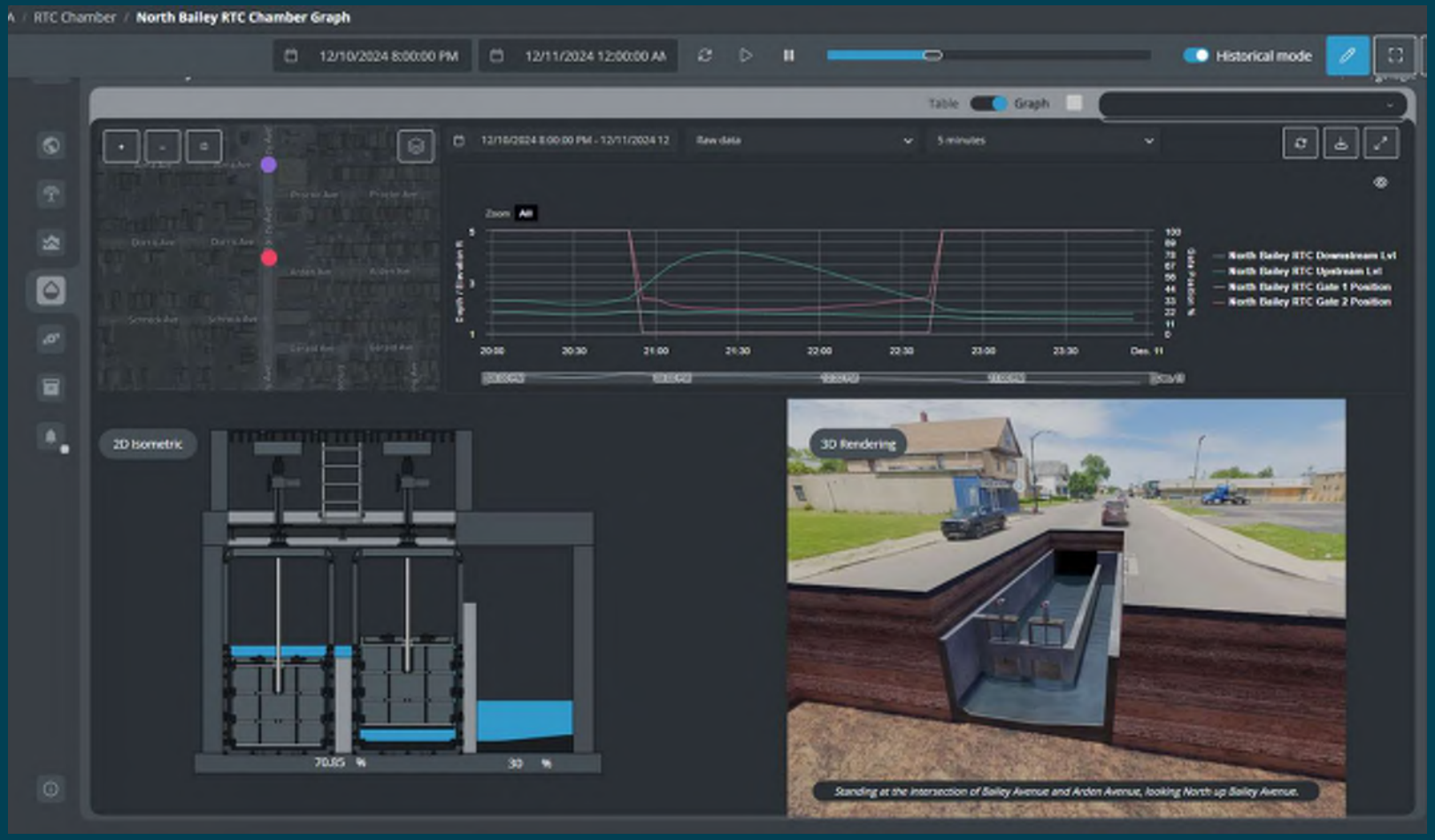
Bird Avenue RTC





During wet weather, downstream sensors indicate when it is time to begin storing
Nearly every gallon stored would have contributed to a CSO activation
The gates take turns with each event – one closes entirely while the other modulates.

Local Control for In-Line Storage (North Bailey RTC)



Frequency Asked Questions

Why is Buffalo Sewer doing these projects?

Buffalo Sewer is working diligently to improve the City's existing sewer infrastructure in a cost-effective manner that will reduce combined sewer overflows (CSOs) impacting surface waters. This project will replace sewers that are over 100 years old and redirect them on a different path to the wastewater treatment plant.

What to Expect During Constructiom

Equipment on roads

New traffic patterns: road and sidewalk closures, limited street parking, detours

Temporary disruptions: noise, dust, and possible sewer and water service interruptions (with advance notice)

No sewage odors inside homes, but possibly outside

Buffalo Sewer will manage environmental hazards like asbestos and PCB-laden soils

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Frequency Asked Questions

Traffic Impact	Some roads will be fully or partially closed during construction. Traffic will be redirected based on City of Buffalo guidelines to ensure you can reach your destination.
Construction Impact on Local Businesses and Services	Local businesses won't be affected, and detours will allow emergency services to access all locations despite road closures.
Parking and Public Transportation Changes	Temporary changes to parking and public transportation may occur, but services will still be accessible.
Program Funding	Buffalo Sewer will fund the projects through the Queen City Clean Waters Initiative using New York State grants and low-interest loans.

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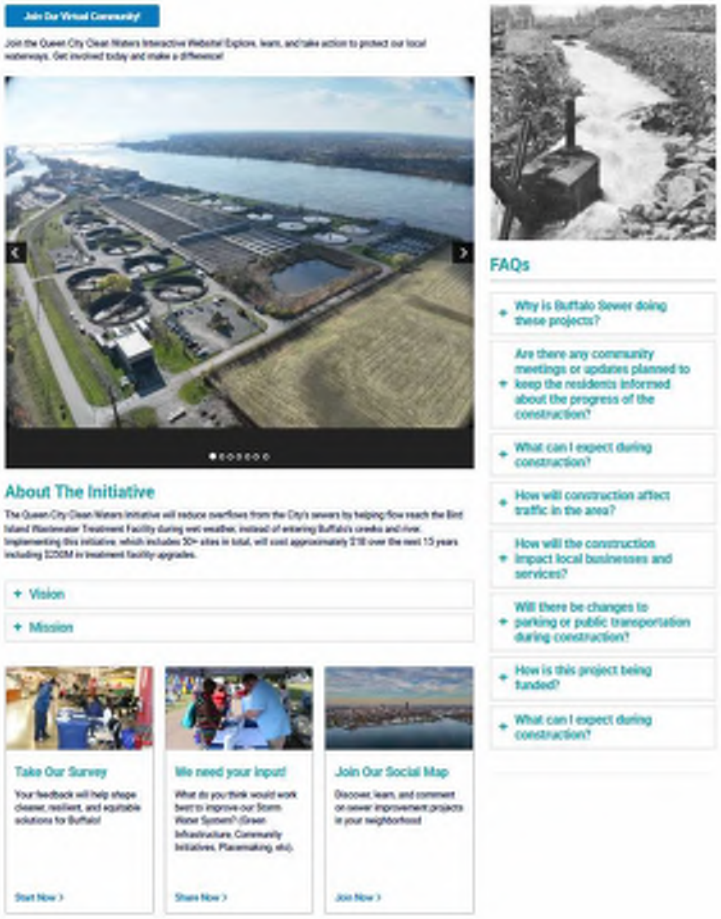
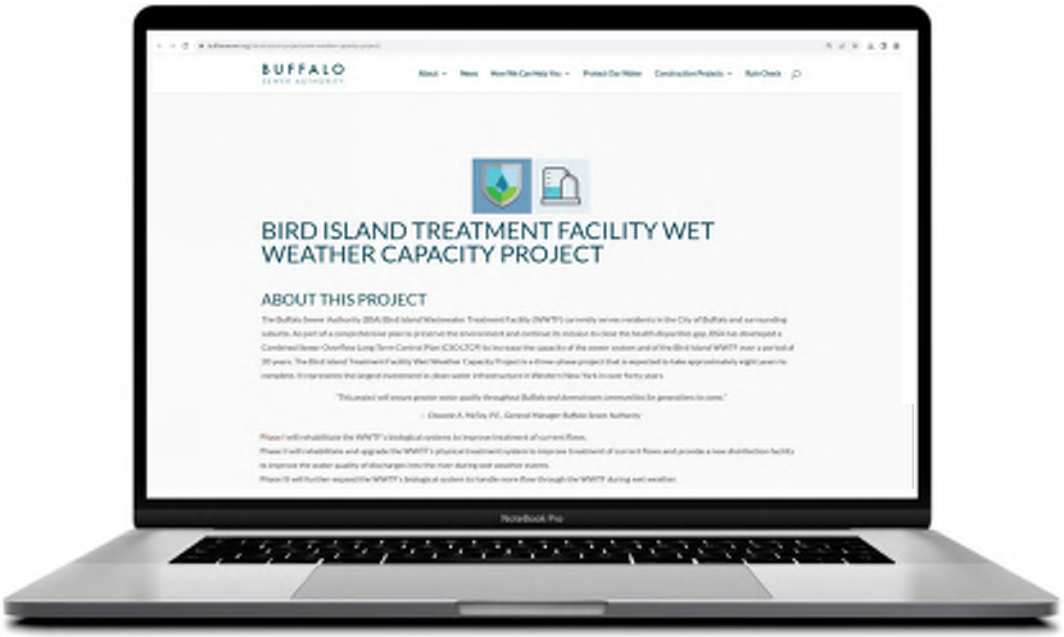
Opportunities to Stay Engaged

New! Queen City Clean Waters Interactive Website

BUFFALOQCCW.ORG



Buffalo Sewer Authority Website



buffalosewer.org

Your BEST source of information!

- Consultant, Contractor, and Supplier Opportunities
- Construction Updates
- FAQs
- Board Meeting Minutes
- Public Participation Plans

BUFFALO SEWER AUTHORITY

Thank you!

GET IN TOUCH:

@BuffaloSewer

BuffaloSewer.org

@BuffaloSewer

BuffaloSewerAuthority

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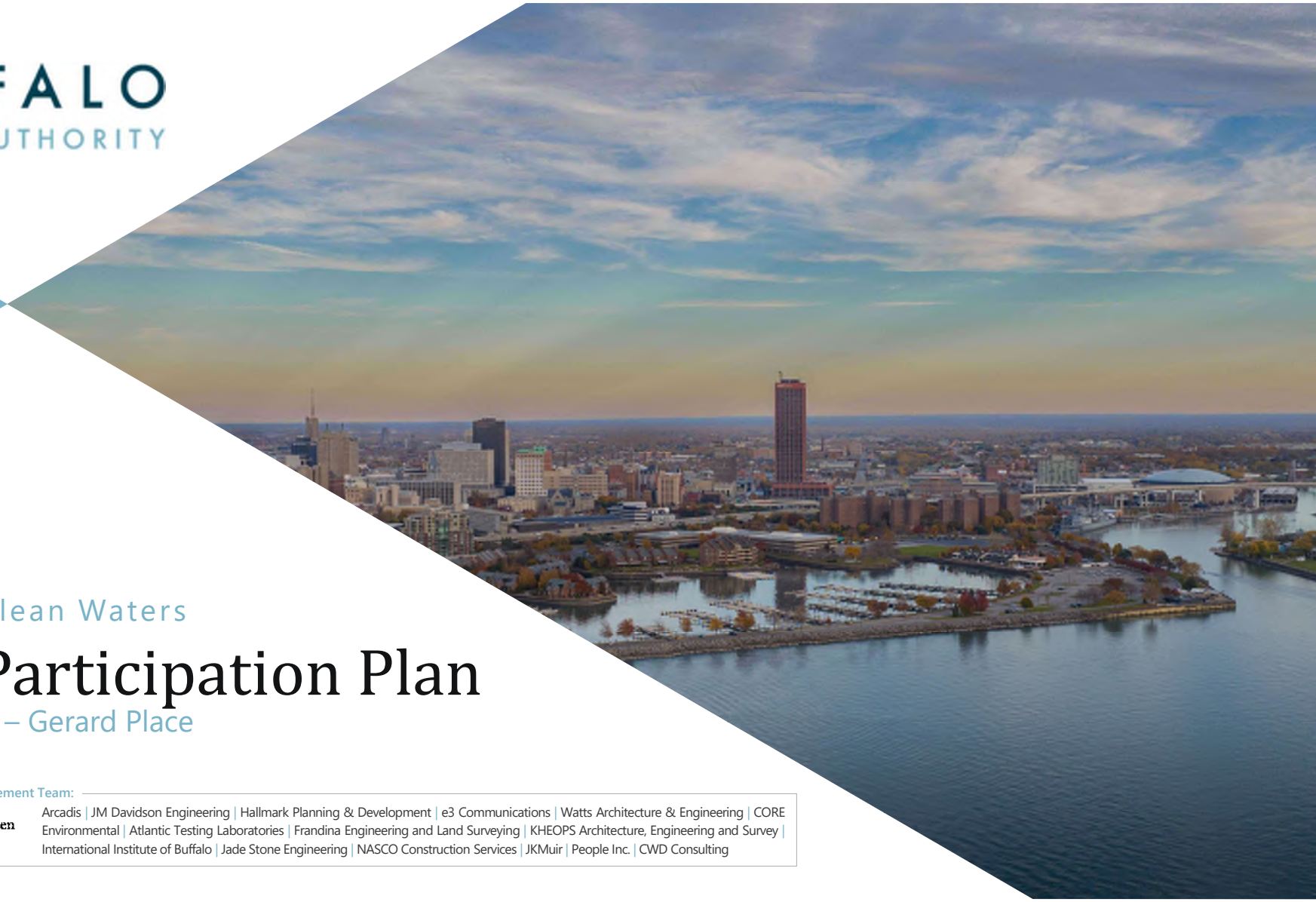


Queen City Clean Waters

Public Participation Plan

April 24th, 2025 – Gerard Place

BSA Capital Projects Program Management Team:

TYLin | Greeley and Hansen Water Solutions

Arcadis | JM Davidson Engineering | Hallmark Planning & Development | e3 Communications | Watts Architecture & Engineering | CORE Environmental | Atlantic Testing Laboratories | Frandina Engineering and Land Surveying | KHEOPS Architecture, Engineering and Survey | International Institute of Buffalo | Jade Stone Engineering | NASCO Construction Services | JKMuir | People Inc. | CWD Consulting

Disclaimer

- This Presentation is provided as of April 24, 2025.
- If you are viewing this Presentation after that date, subsequent events could have a material effect on this information.
- By presenting this information, Buffalo Sewer has not undertaken any obligation to update the information beyond the date of the Presentation.
- Data and other information provided are not warranted as to completeness or accuracy and are subject to change without notice.
- The views, policies, programs, and practices reflected herein also are subject to change without notice.
- This Presentation is provided for your information and convenience only.

Agenda

BACKGROUND

OVERALL PLAN

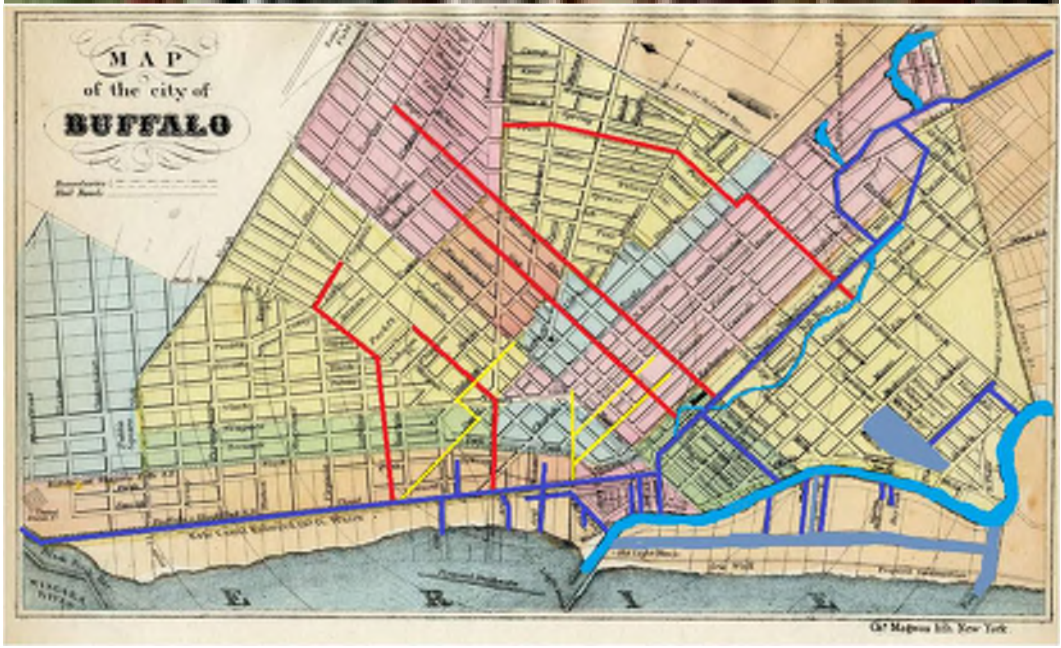
SPECIFIC PROJECTS WITHIN COUNCIL DISTRICT

OPPORTUNITIES TO STAY ENGAGED

Background

A Brief History of Buffalo's Sewers

- Erie Canal opened in 1825
- Drain the Swamp
- Cholera epidemics
  - 1832
  - 1849
  - 1852



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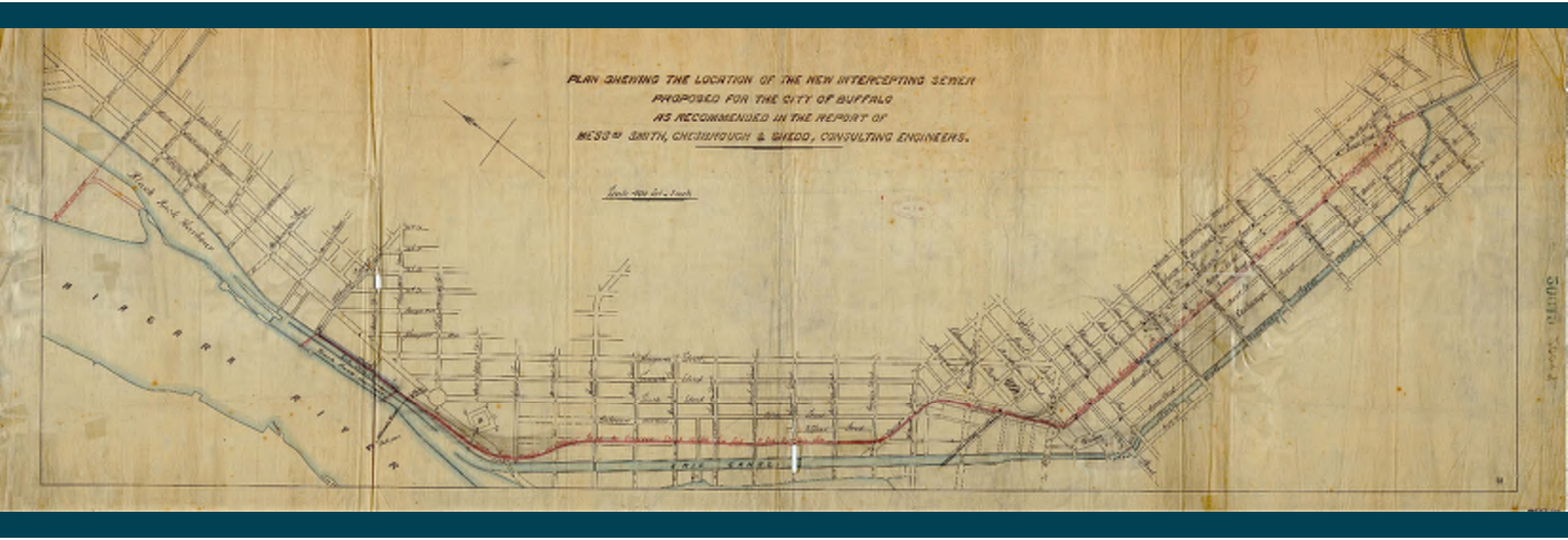
A Brief History of Buffalo's Sewers *(Cont.)*

- George E. Waring, Jr. 1884
- Considered, but rejected
  - Sewer separation
  - Treatment Facility
- Swan
  - Main & Hamburg Canal and Wilkenson Slip: putrid
  - 90 Degree turn at Albany Street
  - Bird Island Pier, now the tip of Freedom Park

The Swan Trunk



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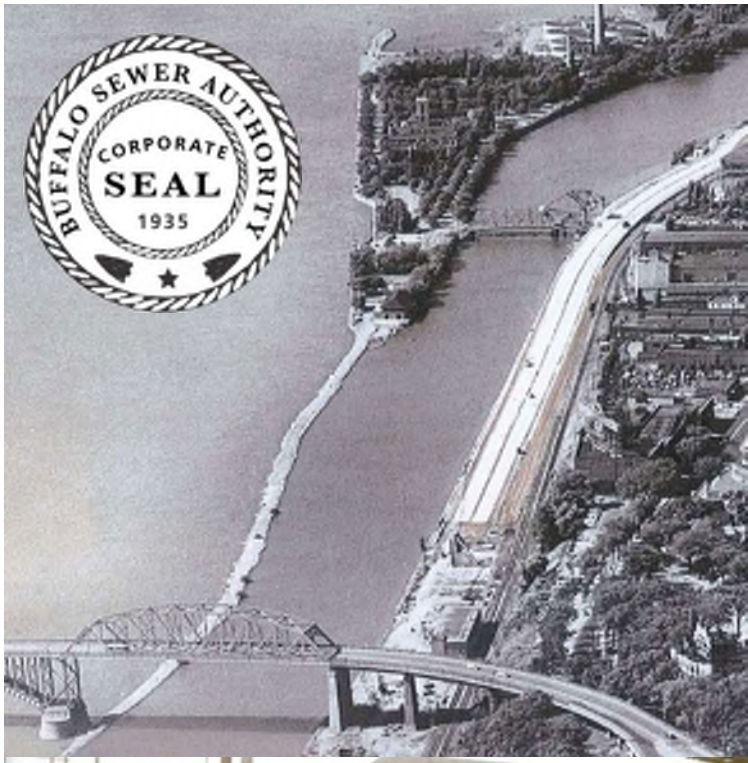
1900-1929: Burying of Waters

- Hamburg Drain
- Ohio Drain
- Scajaquada Creek to Scajaquada Drain 1925

Photo Credit: wnyheritage.org/content/scajaquada_drian_project_-_1920s/index.html

Buffalo Sewer Authority's Founding

- 1907 Canadian Report:
  - Niagara Falls, NY Typhoid Rate
  - 0.2% Population Dying Each Year
- International Joint Commission: January 11, 1909
- 1918 Report: 80% Niagara River Pollution from Buffalo
- NYS Dept. of Health Mandate: March 1935
  - Primary Sewage Treatment Plant
  - Interceptor Sewers
- Establishment of BSA: April 8, 1935
  - $15 M Bonding Capacity ($344 M 2024)



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1941-1970: Storm Relief and Sprawl

NYS Route 33

- Severed Bird-Ferry Trunk
- Stormwater added to system
- New pump station for stormwater and groundwater
- New trunk sewers

I-198

- New storm sewers
- Direct discharge to Scajaquada Creek

I-190

- Old Erie Canal bed
- On top of:
  - Swan Trunk
  - Interceptor Sewers
  - Hamburg Drain

BUFFALO
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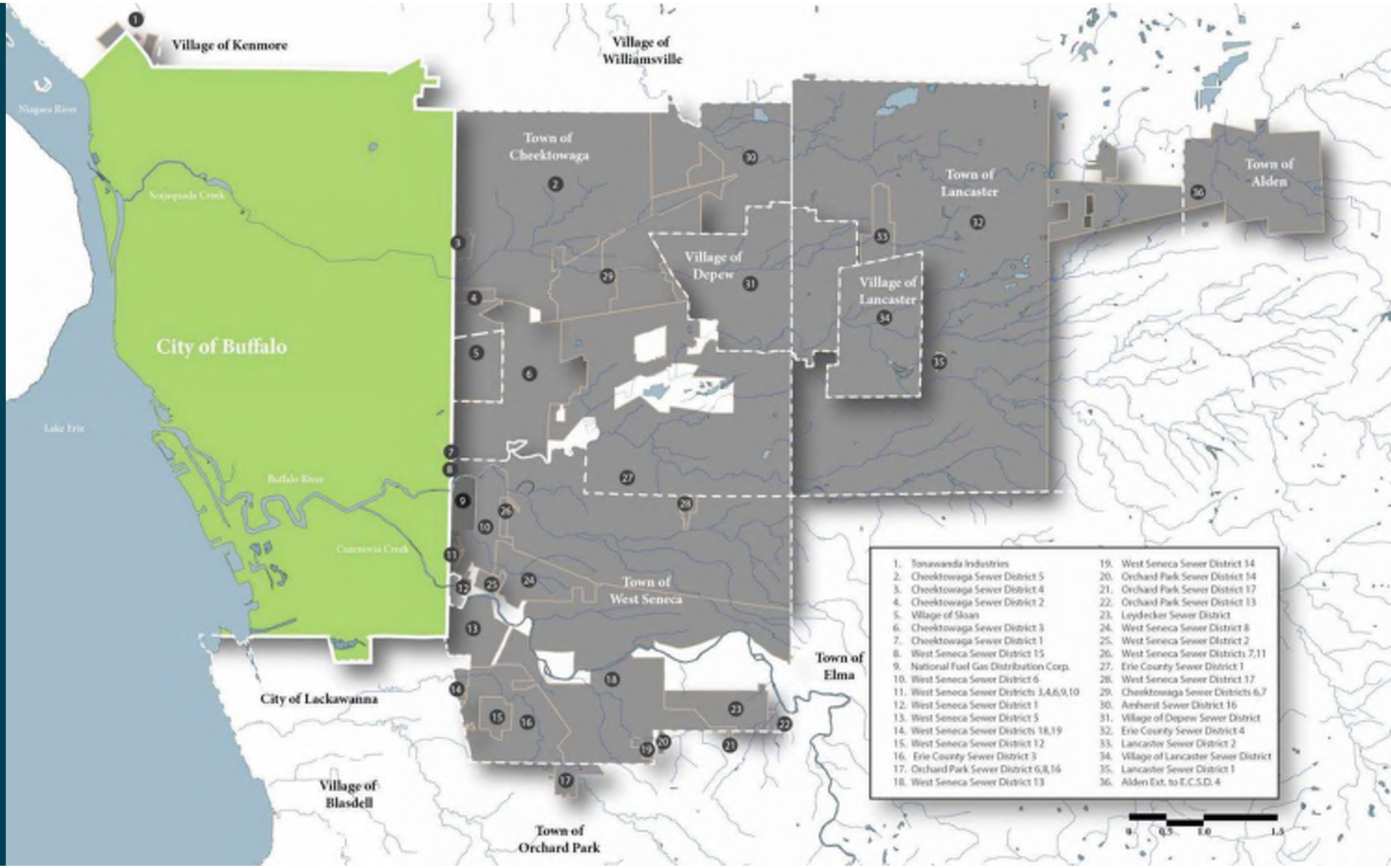
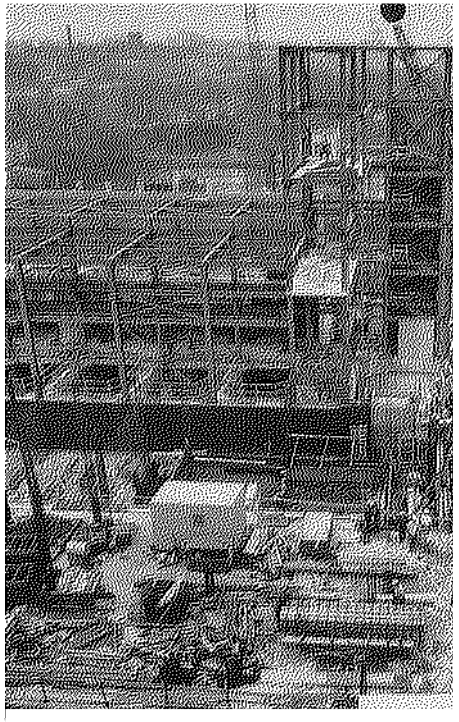
1941-1970: Storm Relief and Sprawl



Clean Water Act (1972)

- Scajaquada Tunnel
  - Diversion from Scajaquada Drain to Tunnel
  - Raising of Weirs
- Kelly Island Connection
- Secondary Treatment Process



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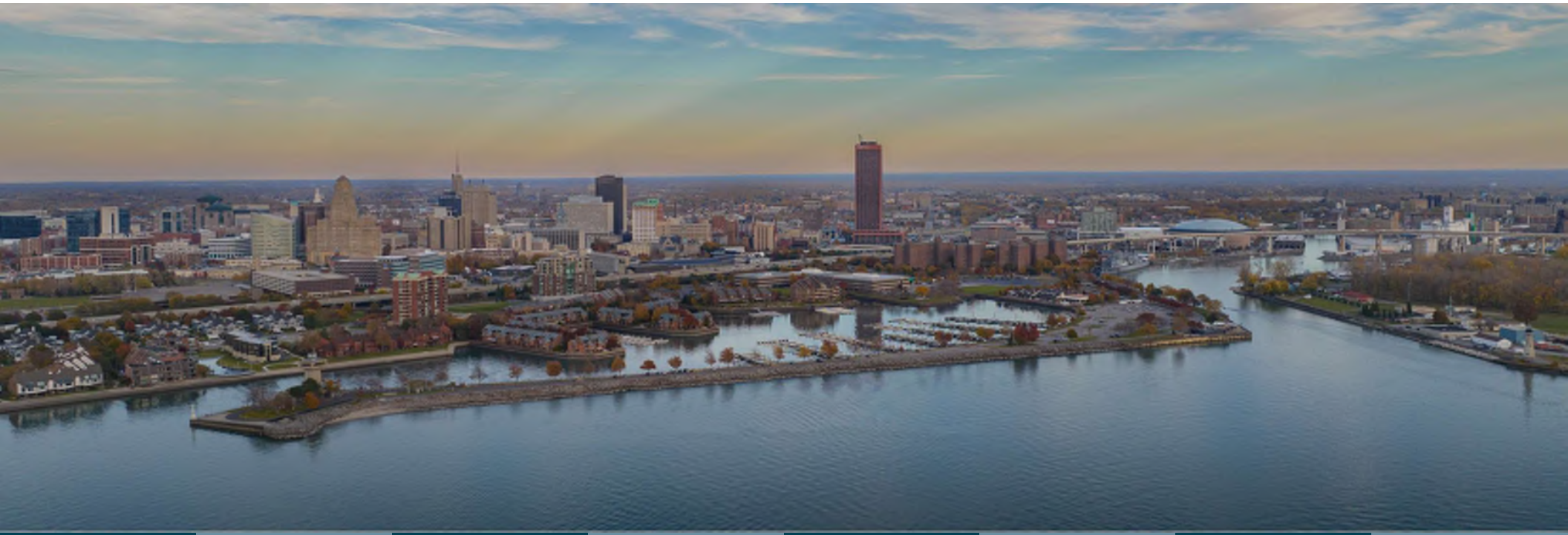

1994

USEPA CSO Control Policy Issued (Required Development of LTCP)

2004

Submitted Initial LTCP to New York State Department of Environmental Conservation (NYSDEC)

2007

NYSDEC/USEPA Request Additional Evaluations

2009

Negotiation of Consent Decree Begins

2012

Submitted LTCP Update to USEPA/ NYSDEC (as directed by regulatory agency

2014

Final LTCP Report Submitted to USEPA/NYSDEC

2022

Revised collection system model is approved

2023

QCCW (51 proposed projects) submitted to NYSDEC

Approved Recalibration Results

- Some Combined Sewer Overflows (CSOs) Already in Compliance (Some Projects Not Needed)
- LTCP Does Not Reach Compliance for Others!

Waterbody	Activation Goals	Projected Activations
Buffalo River	6	15
Niagara River	9	14
Scajaquada Creek	4	19

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Combined Sewer Overflows Compliance

Combined Sewer Overflows							
003	004	005	006	007	008	009	010
011	012	013	014	015	016	017	022
023	025	026	027	028	029	031	032
033	035	037	038	039	040	042	044
046	047	048	049	050	051	052	053
054	055	056	057	058	059	060	061
062	063	064	066				

Proportion in Each Compliance Category

37 8 7

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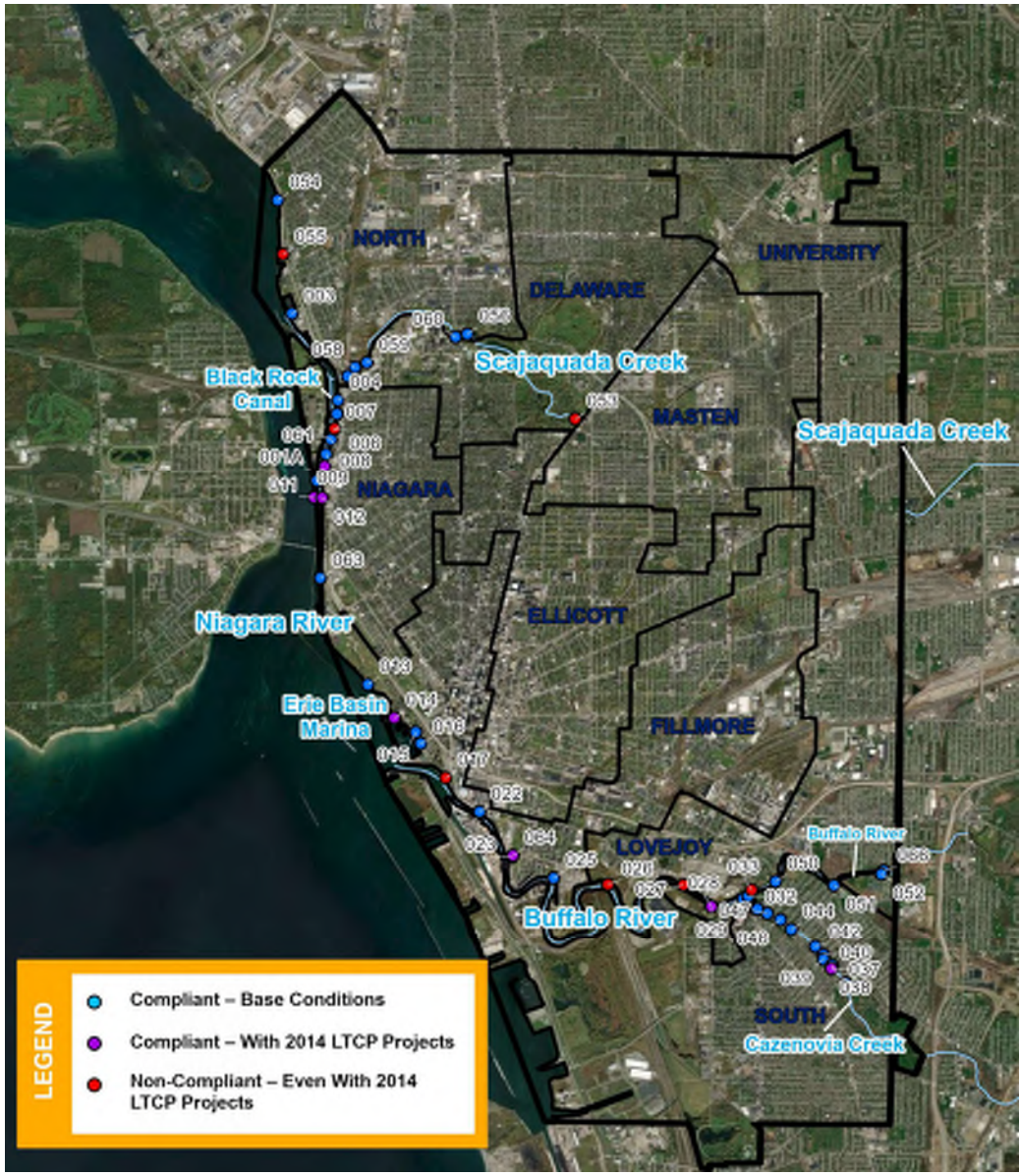
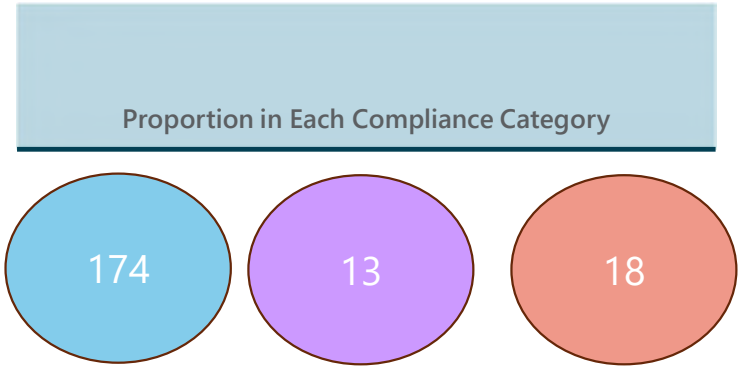
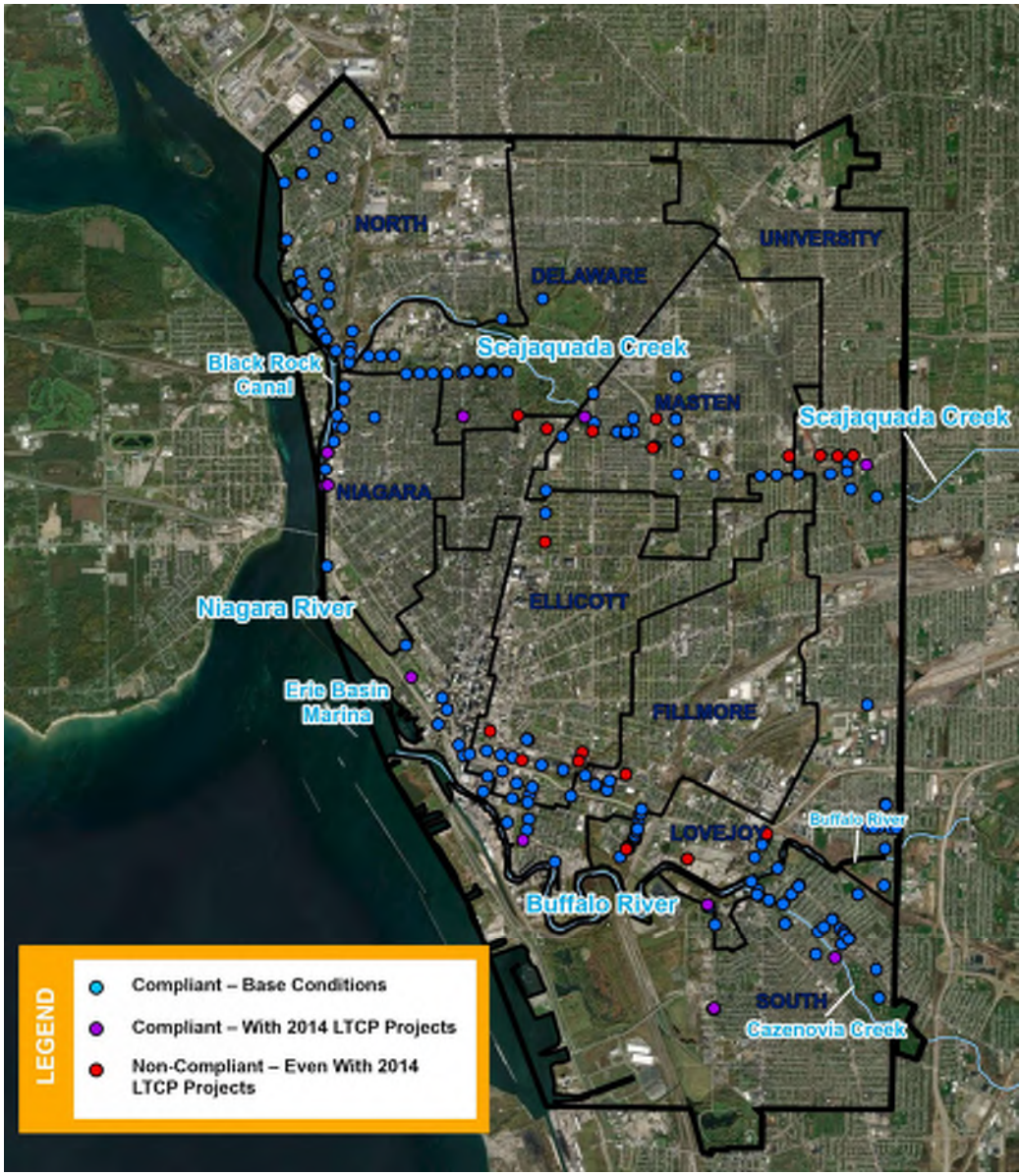


Sewer Patrol Points (SPP) Compliance





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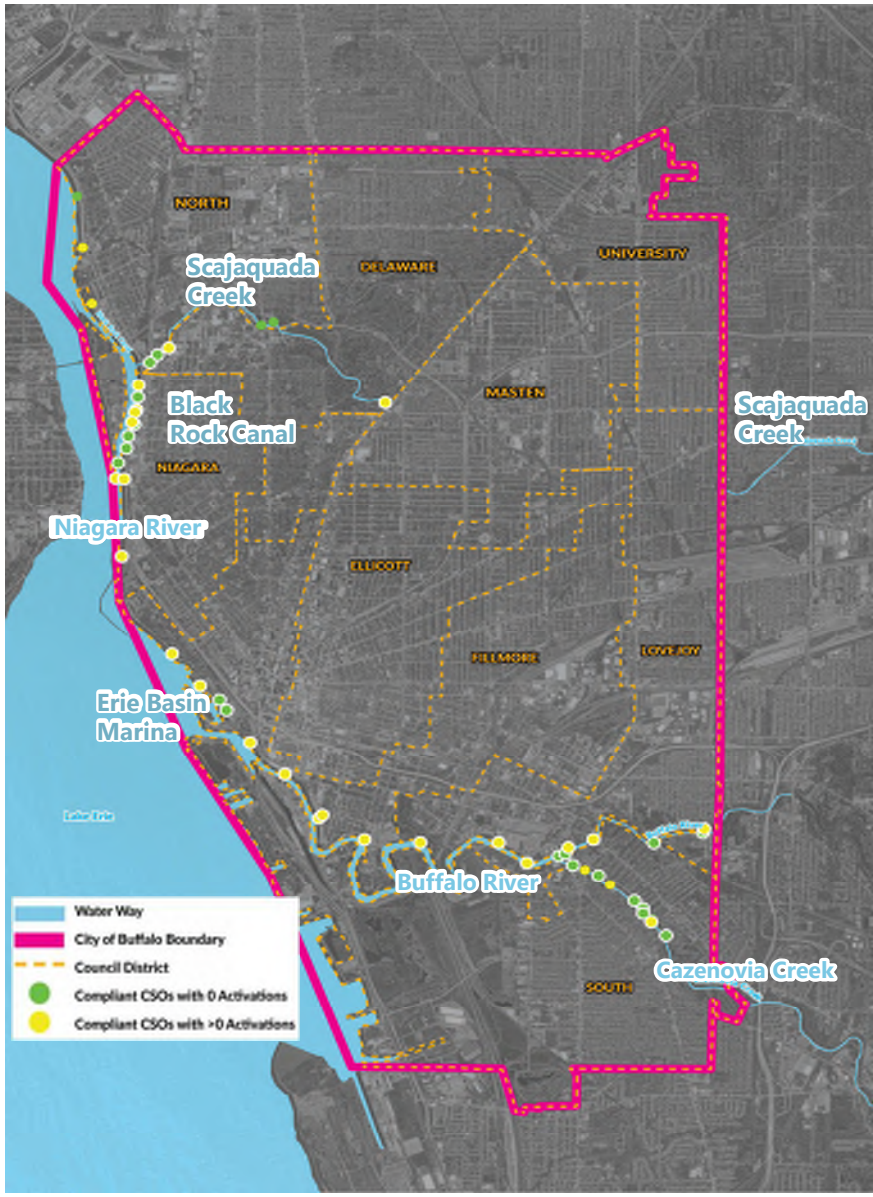
AH3

Development of Activation Targets

ACTIVATION = OVERFLOW OCCURRENCE

Waterbody	Activation Goals	Selected Alternatives Completion Activations
Black Rock Canal	0-4	4
Buffalo River	0-6	6
Cazenovia Creek - B	0-0	0
Cazenovia Creek - C	0-6	5
Erie Basin Marina	0-2	2
Niagara River	0-9	9
Scajaquada Creek	0-4	4
Overall	0-9	9



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Lessons Learned from the 2014 LTCP

WHY WAS THE OPTIMIZATION DONE?

Feasibility Constraints for Baseline Projects in the 2014 LTCP:

- Many proposed projects were unfeasible due to compliance issues and costs, highlighting a lack of thorough consideration regarding industrial heritage and the specifics of infrastructure design, such as the differences between open and underground tanks for vehicle support.

AH1

Constraints of Offline Storage (OLS) and Storage Tunnel Projects:

Land Acquisition

Environmental Justice

Operational Cost

Depth of Bedrock

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RN3

Optimization Approach

Globally Coordinated Control Strategy

Real time control (RTC) sites collaborate to prevent overflows and reduce peak flows, regardless of local conditions.

System Evaluation Considerations and Constraints

- Property ownership
- Underground contamination concerns
- Gravity flow vs. pumping
- Prioritization of sewer patrol points (SPP) with low activation requirements and high overflow in baseline projects
- Potential coordination

Original Projects Considered

77 projects including In-line (ILS) and Off-line Storage (OLS), Green Infrastructure, Sewer Separation, and Sewer Patrol Point (SPP) Modification

Optimization Rounds

- Project alternatives per SPP
- Full system optimization
- Minimizing cost while achieving compliance

Tools Used

Cloud computing for alternatives analysis

Outcome

51 projects identified as Selected Alternatives

Queen City Clean Waters (QCCW) – Mission and Vision

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QUEEN CITY CLEAN WATERS

VISION

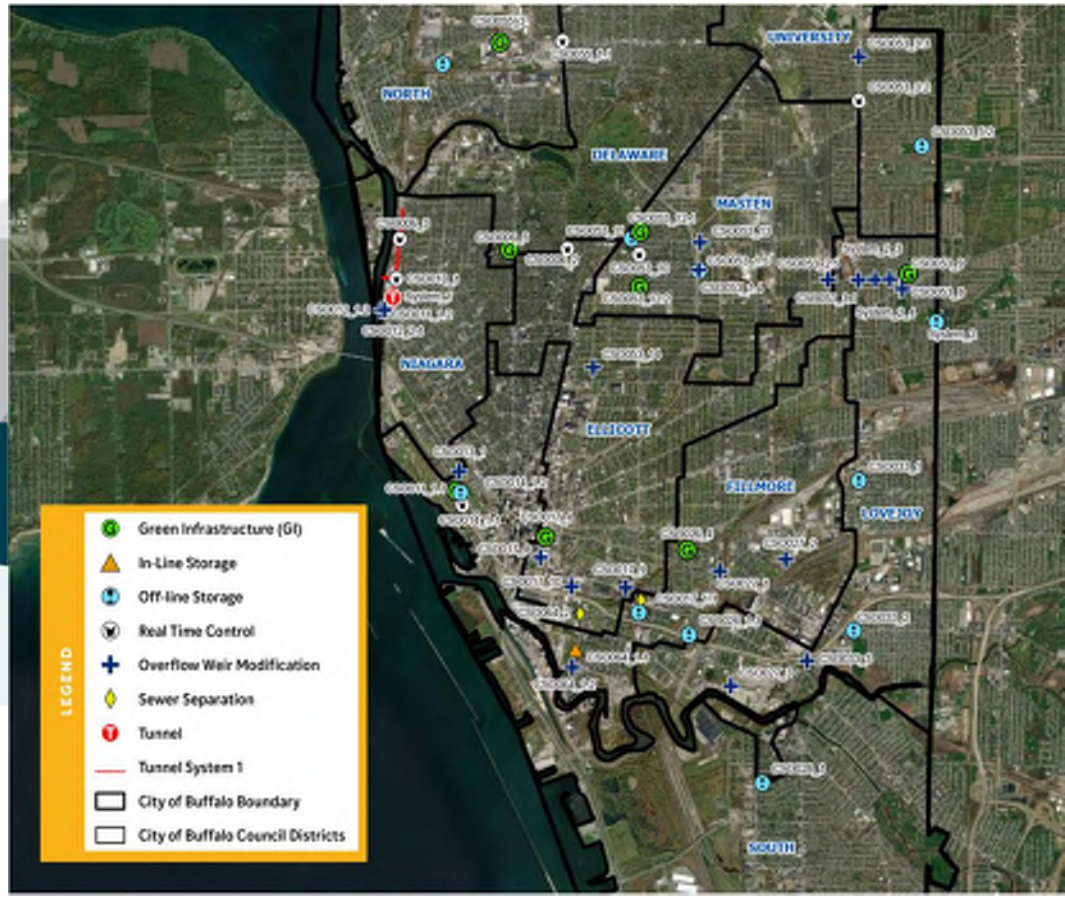
Clean waters and a resilient Buffalo.

MISSION

To safeguard public health and the environment while fostering strong community partnerships, creating meaningful workforce opportunities, and driving lasting economic impact for future generations in Buffalo.

Queen City Clean Waters

PROGRAM OVERVIEW



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Overall Plan

AH1

Construction Impacts and Mitigation Measures

- During construction, residents can expect to see equipment and traffic cones off to one side of the road.
- Temporary disruptions, such as noise and dust, will be minimized as much as possible.
- Sewage odors will NOT be present in homes but may be present outside.

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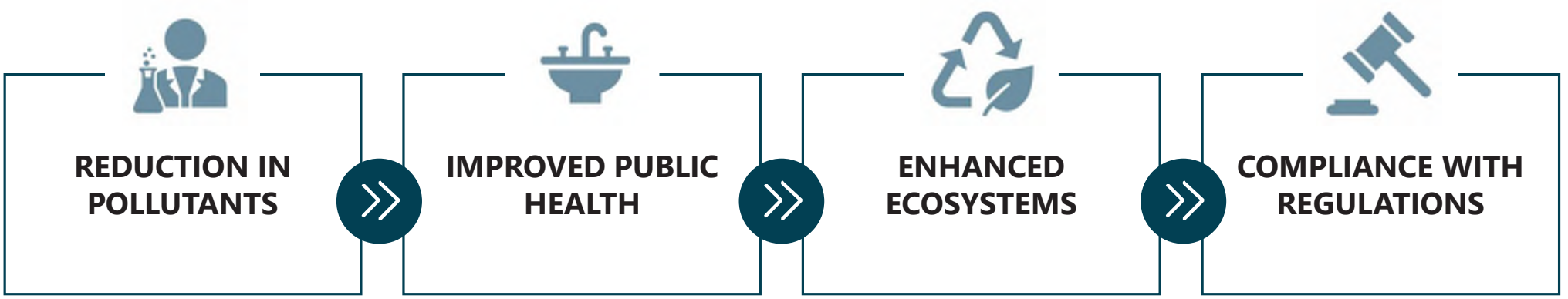
Construction Impacts and Mitigation Measures

- New traffic patterns will be in place during construction, including:
  - Partial or full road closures
  - Sidewalk closures
  - Limited street parking
  - Possible detours (for vehicles, cyclists and pedestrians)/ relocated bus stop
  - Rodent control plans
  - Fencing and site visibility

Water Quality Benefits



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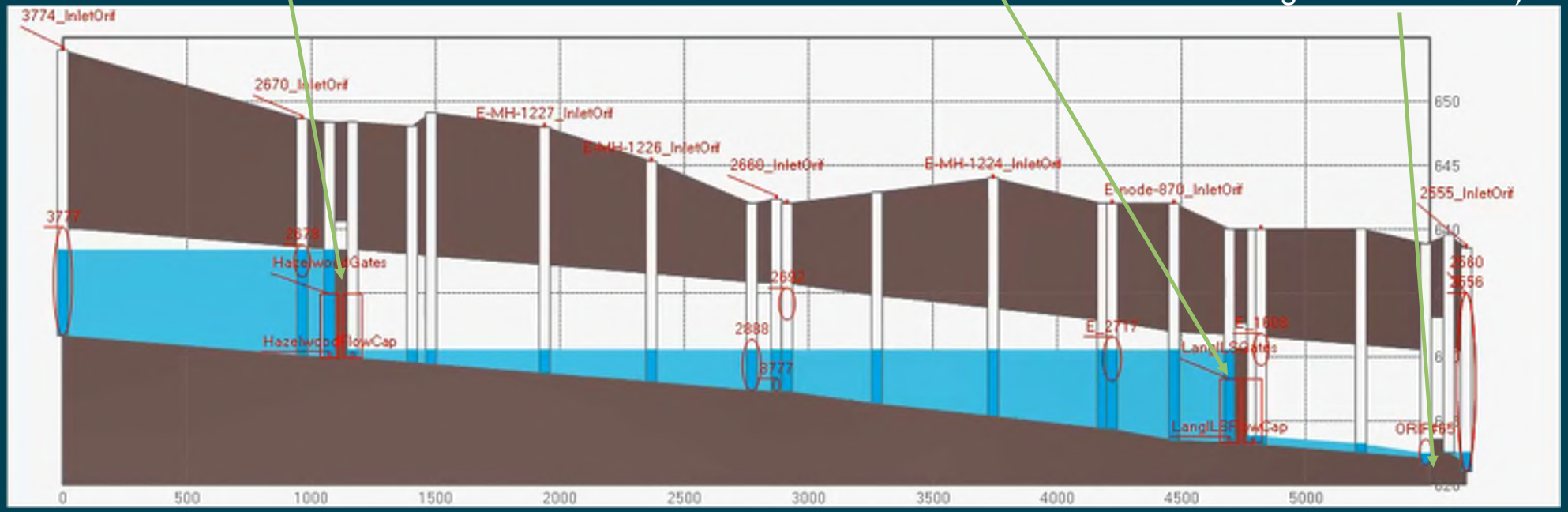

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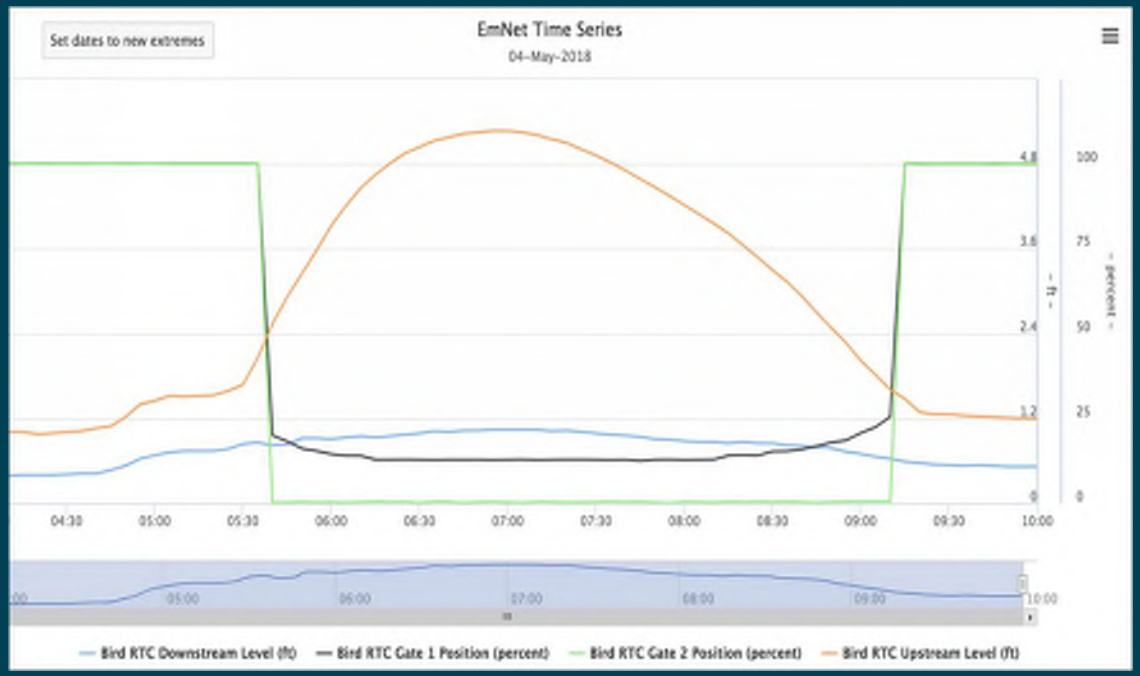

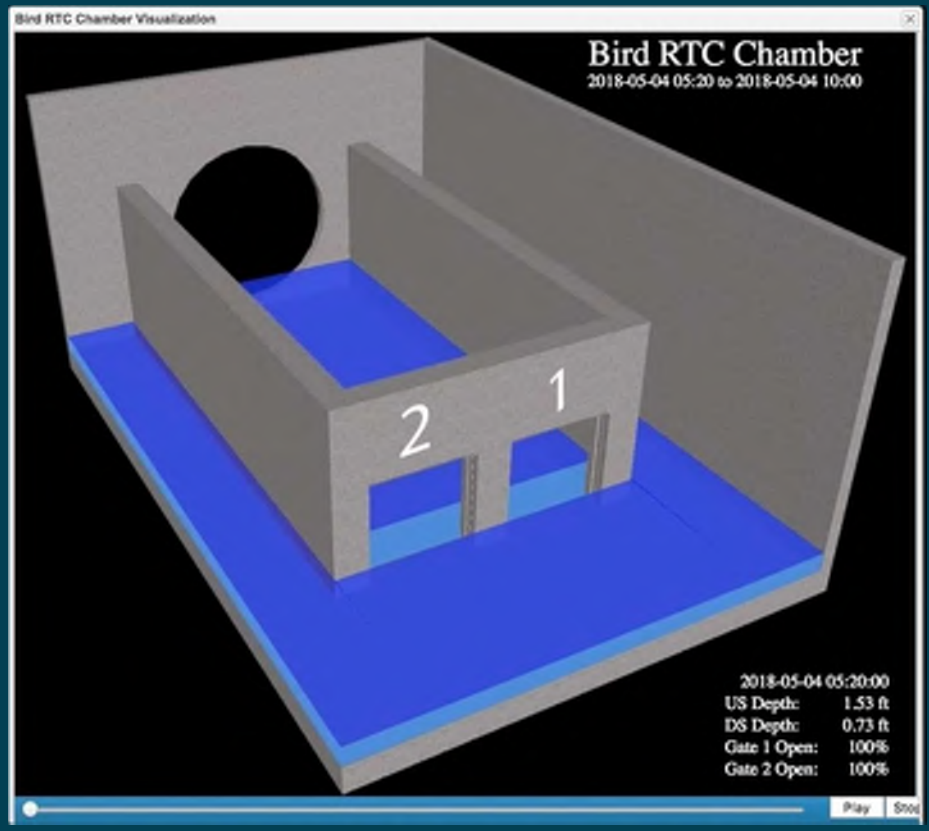

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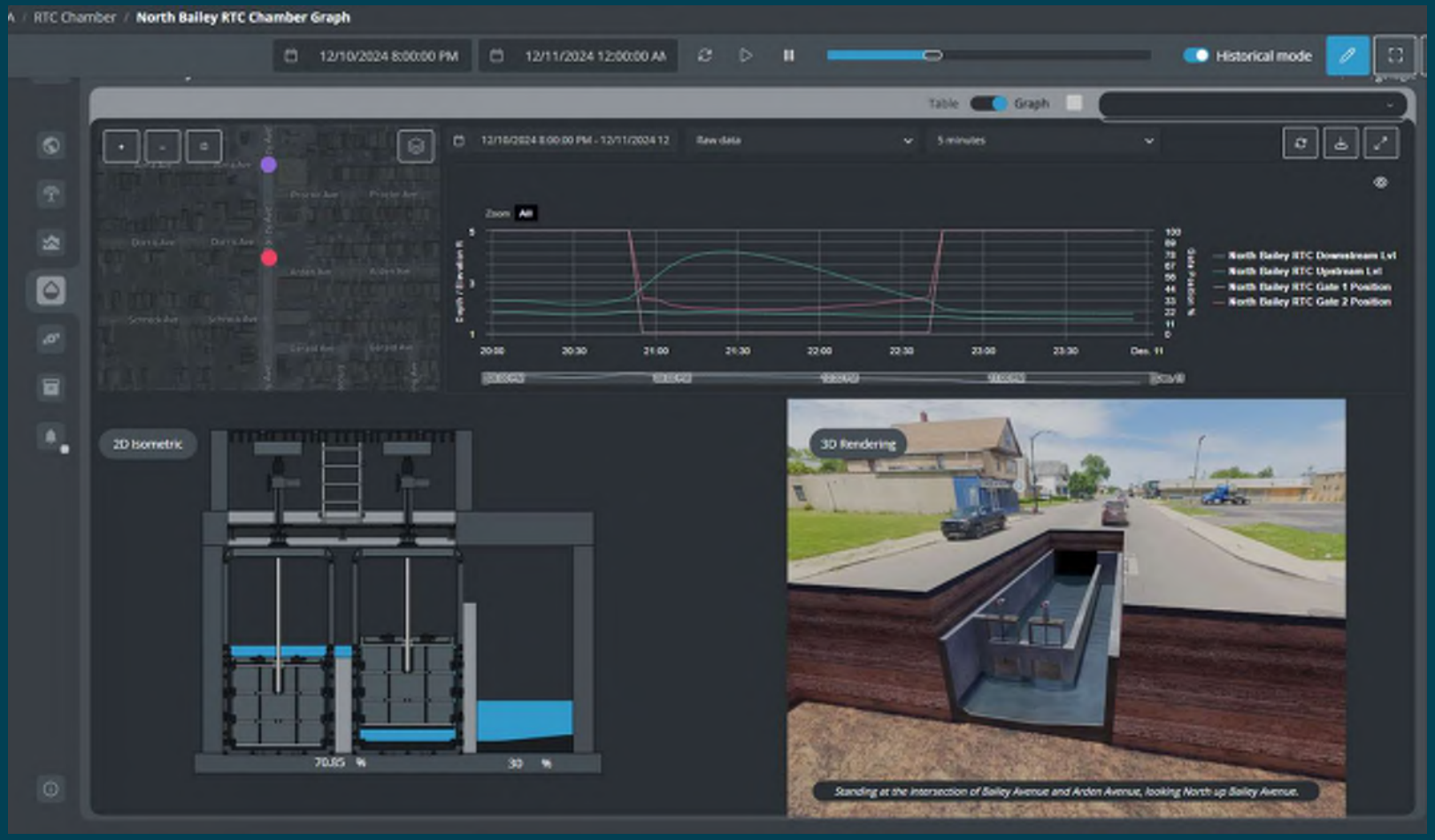


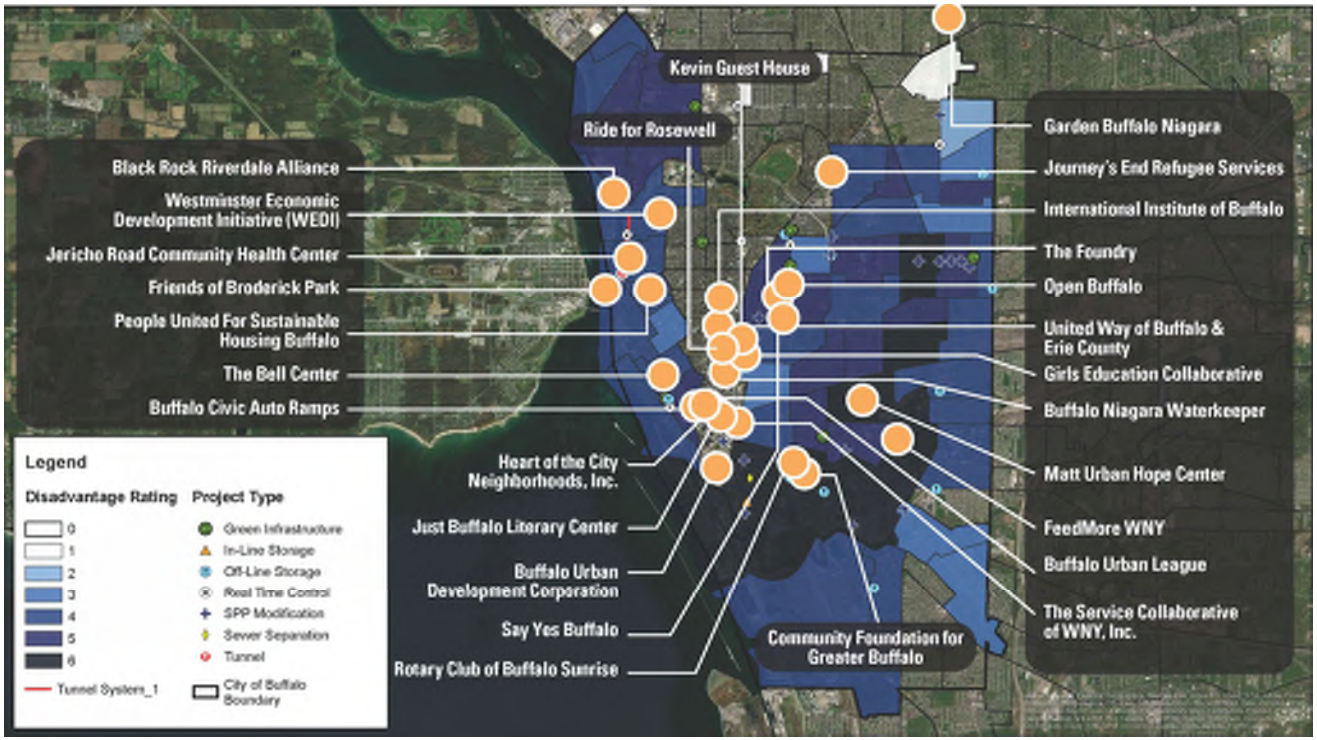
Community Engagement & Stakeholder Outreach

Program Management Impact:
Equity Indicators + Desired Outcomes

1	2	3	4	5	6	7
Community Ownership	Capacity Building	Healthy Communities	Heritage Preservation	Sustainable Wealth Creation	New and Reformed Policy for Sustainable Development	Growth Management and Neighborhood Development

Observation — Discovery — Planning and Application

Partner with Anchor Institutions to Reach the Community



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Accountability + Transparency: Indicators, representation, how are resources distributed and made available

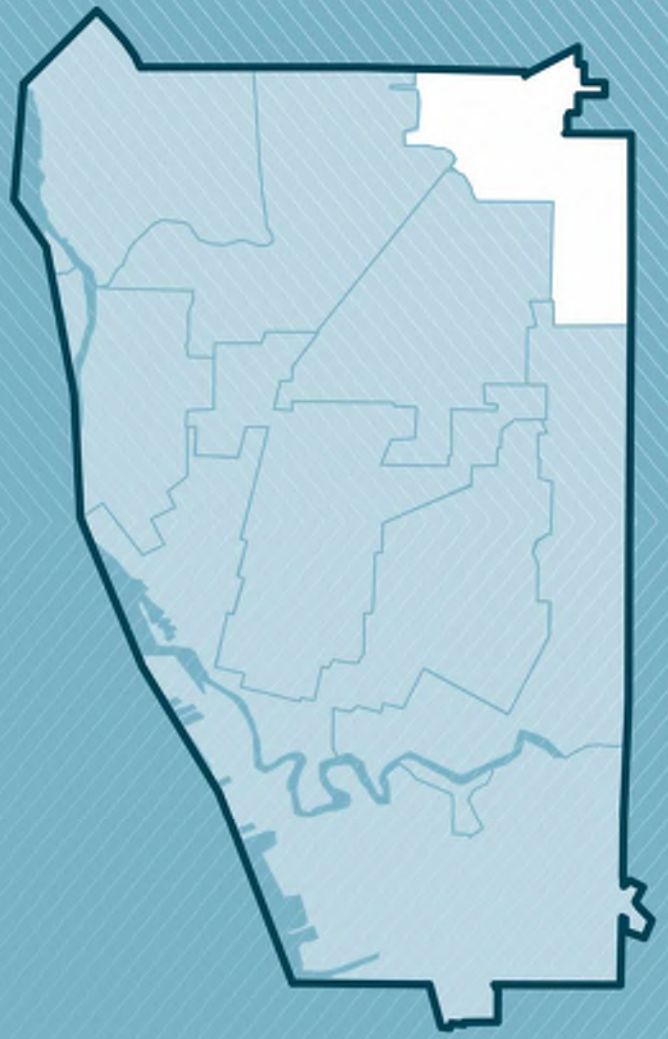
BSA's Commitment to the Inclusion of DBE/MWBE Firms

PURPOSE

- Create economic opportunity for Disadvantaged/Minority/ Women – Owned Business Enterprise (D/MBE/WBE) firms, including firms who are new to working with BSA and/or the City of Buffalo
- Promote meaningful teaming arrangements, mentorship, and partnership between established, experienced firms and new and/or smaller firms

University District

Specific Projects



Bailey & Minnesota

SEWER PATROL POINT (SPP 254)

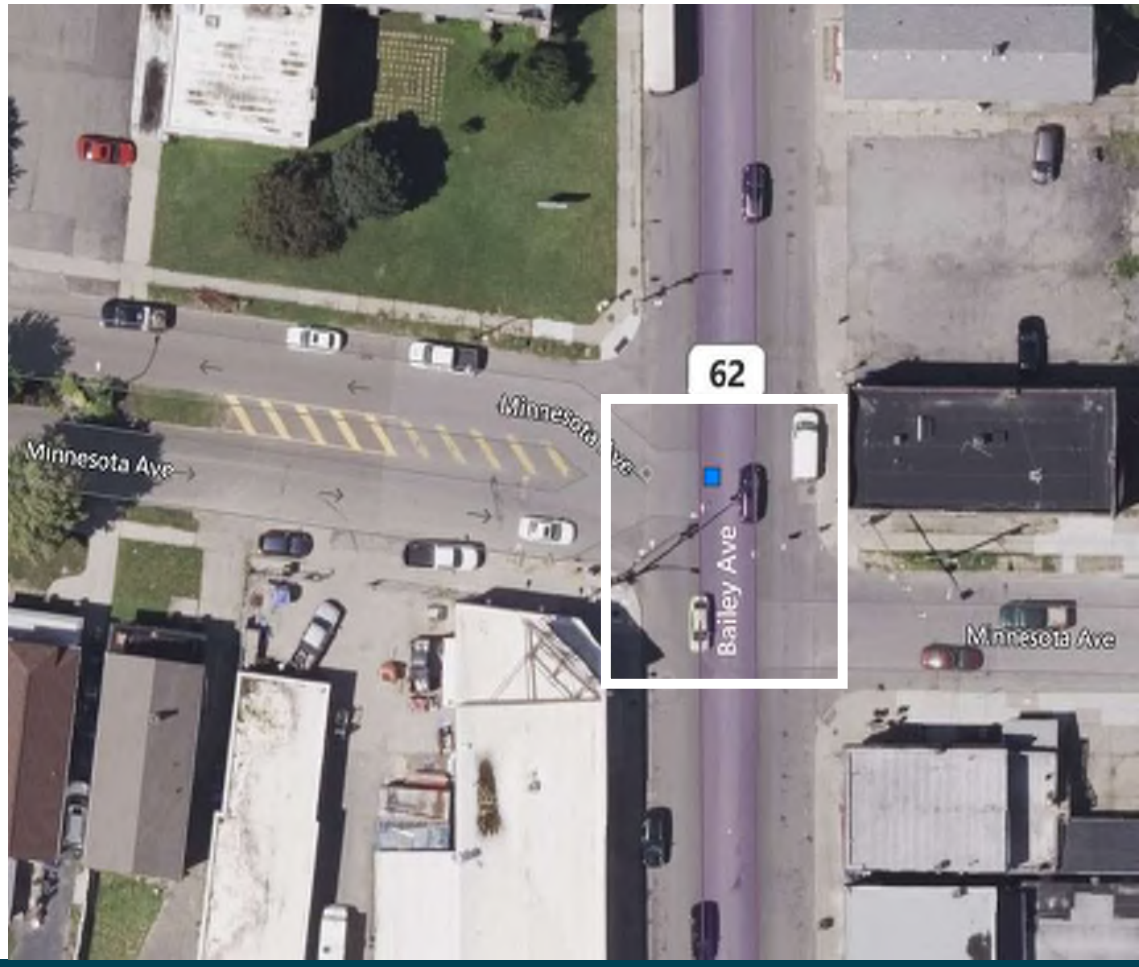
Project Description:

– Remove the overflow weir, which is a flow control barrier

– Install a new weir that is lower than t JD1 original

Estimated Cost: $232,385

Waterbody Impacted: Scajaquada Creek



TIMELINE ▼

Design Start Date
March 2022

May 2023
Design Completion Date

Actual Construction Start Date
July 2024

July 2024
Actual Construction End Date

Bailey & Amherst

REAL TIME CONTROL (RTC)

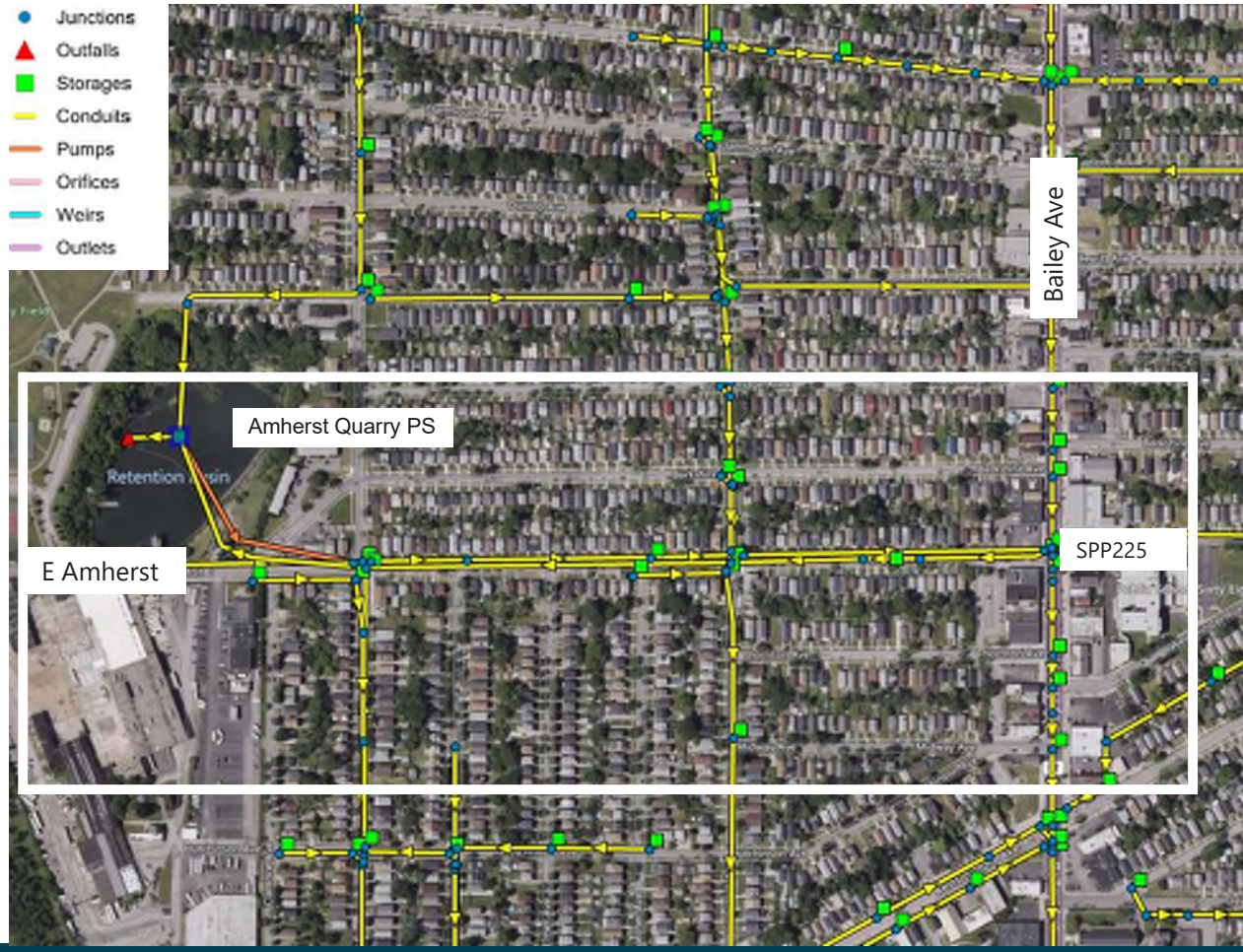
Project Description:

– Add real-time control at Bailey Avenue and East Amherst Street (SPP 255)

– Improve efficiency of Amherst Quarry Pump Station dewatering operations

Estimated Cost: $2,150,872

Waterbody Impacted: Scajaquada Creek



TIMELINE ▼

Design Start Date
December 2021

May 2023
Design Completion Date

Actual Construction Start Date
July 2024

July 2028
Required Construction End Date

Edison & Martha

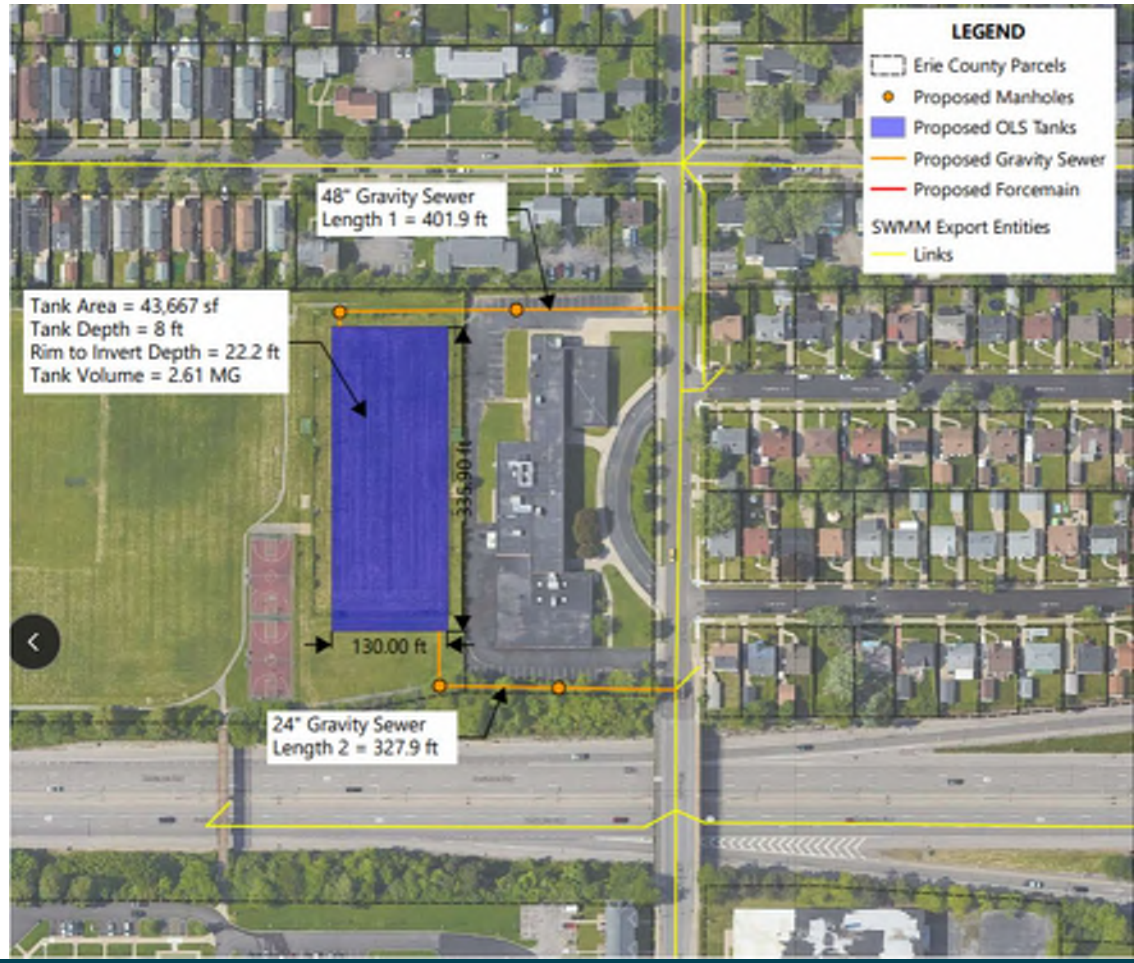
OFFLINE STORAGE (OLS)

Project Description:

- 2.61 MG buried concrete offline storage tank
- Diversion structure
- Includes inlet and outlet gravity sewers
- Survey start date: April 17th, 2024

Estimated Cost: $84,500,000

Waterbody Impacted: Scajaquada Creek



TIMELINE ▼

Design Start Date
March 2024

December 2026
Design Completion Date

Required Construction Start Date
June 2027

June 2033
Required Construction End Date

Edison & Martha (OLS)

Anticipated Construction Duration:
Goal: 3 Years, no more than 6 years

Year 1

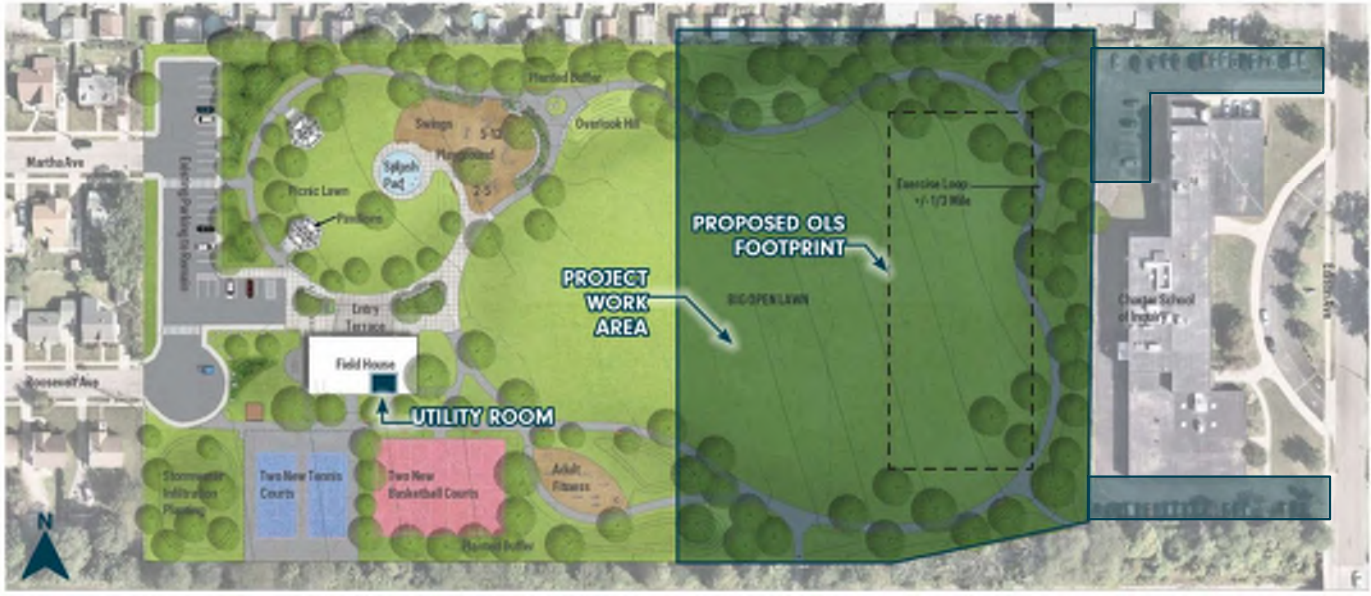
- Protective fencing and construction trailer
- Begin excavation for buried tank
- Start tank construction

Years 2

- Continued tank with concrete and steel

Years 3

- Finish tank construction
- Site restoration and park beautification



Project Area ▲

TIMELINE ▼

Design Start Date
March 2024

December 2026
Design Completion Date

Required Construction Start Date
June 2027

Required Construction End Date
June 2033

Edison & Martha OFFLINE STORAGE (OLS)

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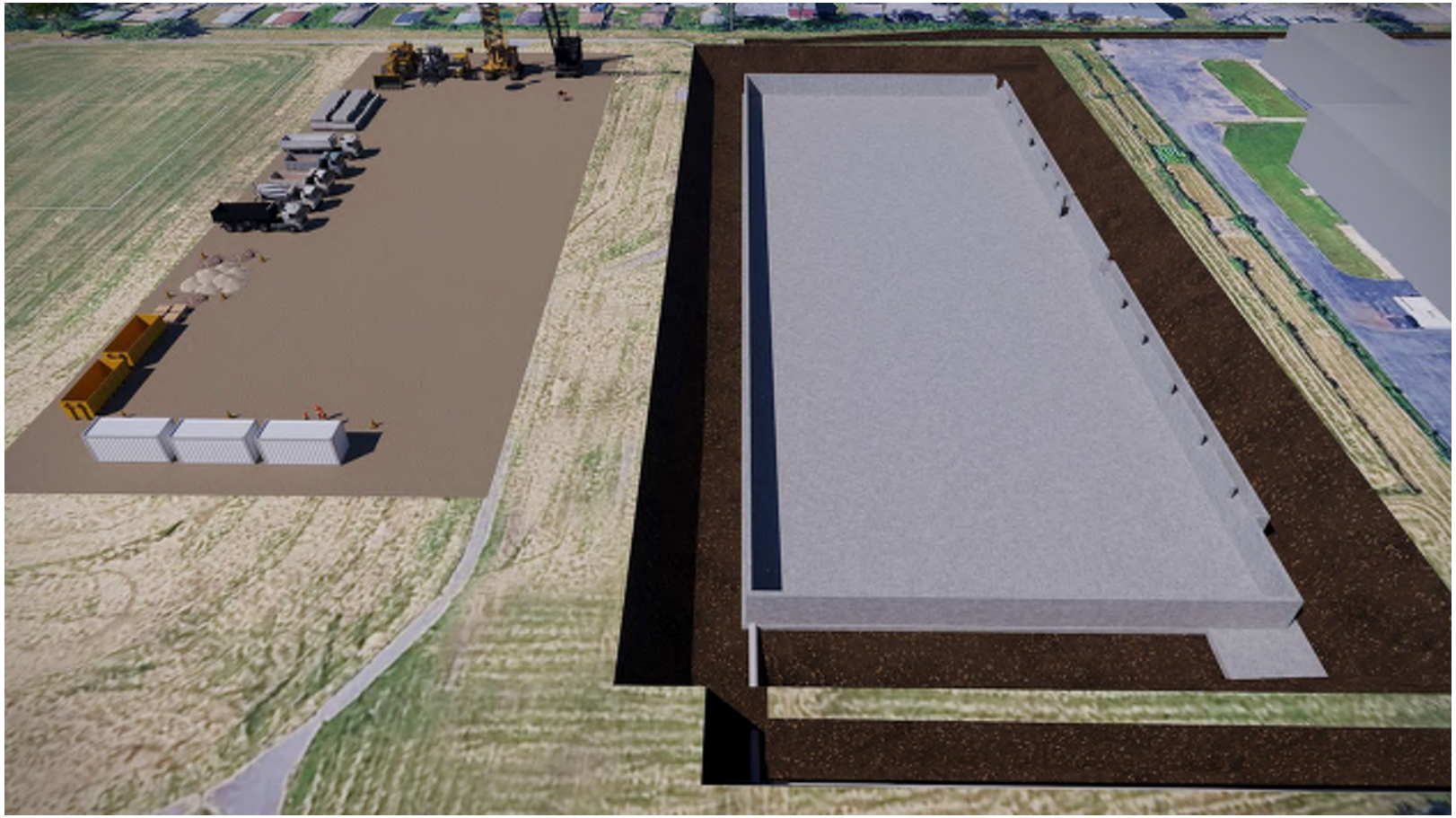
Edison & Martha OFFLINE STORAGE (OLS)



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Edison & Martha OFFLINE STORAGE (OLS)

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Edison & Martha OLS – Impact Assessment

Impact Category	Analysis
Land	Excavation of soil will disturb the site; erosion and runoff will be mitigated.
Open Space & Recreation	Roosevelt Playground use restricted during construction; restoration planned afterward.
Transportation	Periodic detours, closures, and pedestrian access changes near school and park.
Noise	Heavy equipment will generate noise throughout construction; limited to daytime
Light	Temporary lighting may affect nearby properties during early/late construction hours.
Odor	Odors from tank activation (~45x/year) may affect nearby community; Odor Control will be evaluated during design
Human Health (Construction)	Dust, diesel emissions, and potential soil contamination pose risks to vulnerable groups during construction.
Community Character	Visual and functional disruption of park; temporary fencing and equipment affect feel. Roosevelt Park Master Plan project will not be impacted

Edison & Martha OLS – Impact Assessment

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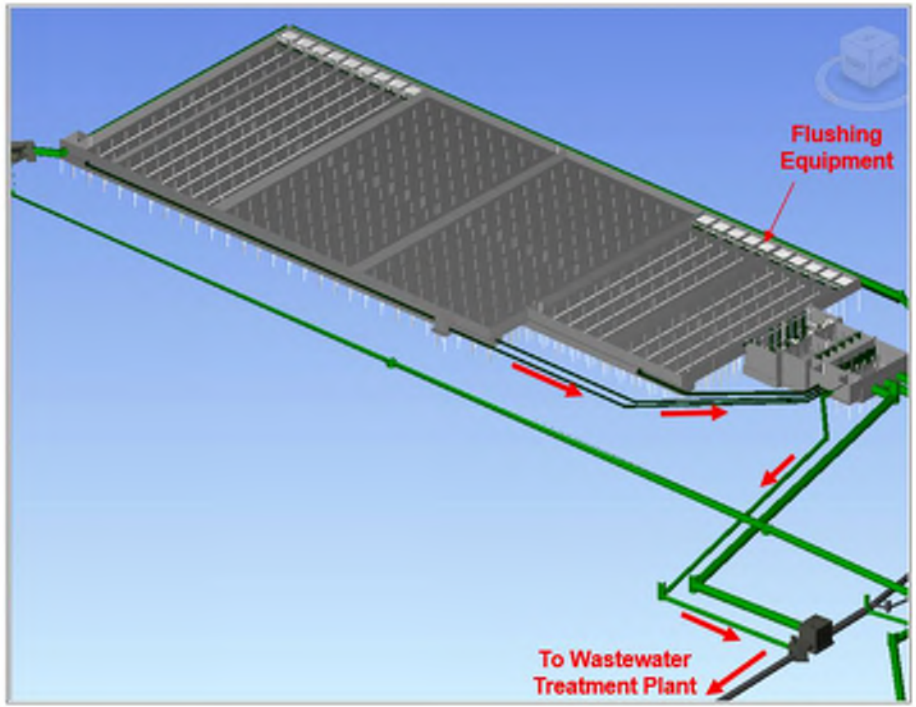
Example Project

Ottawa River Storage Facility – Toledo, OH

Project Description:

- Toledo Water Initiative project to clean waterways and reduce sewer overflows
- **36.3 MG** (10x larger than Edison Martha) buried combined sewage underground concrete storage basin
- Includes influent pumping station and effluent sewer system
- Project completed in 2022 . Took roughly 3 years

Waterbody Impacted: Ottawa River



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Example Project

Ottawa River Storage Facility – Toledo, OH

During Construction

Post Construction

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Example Project Results

Ottawa River Storage Facility – Toledo, OH

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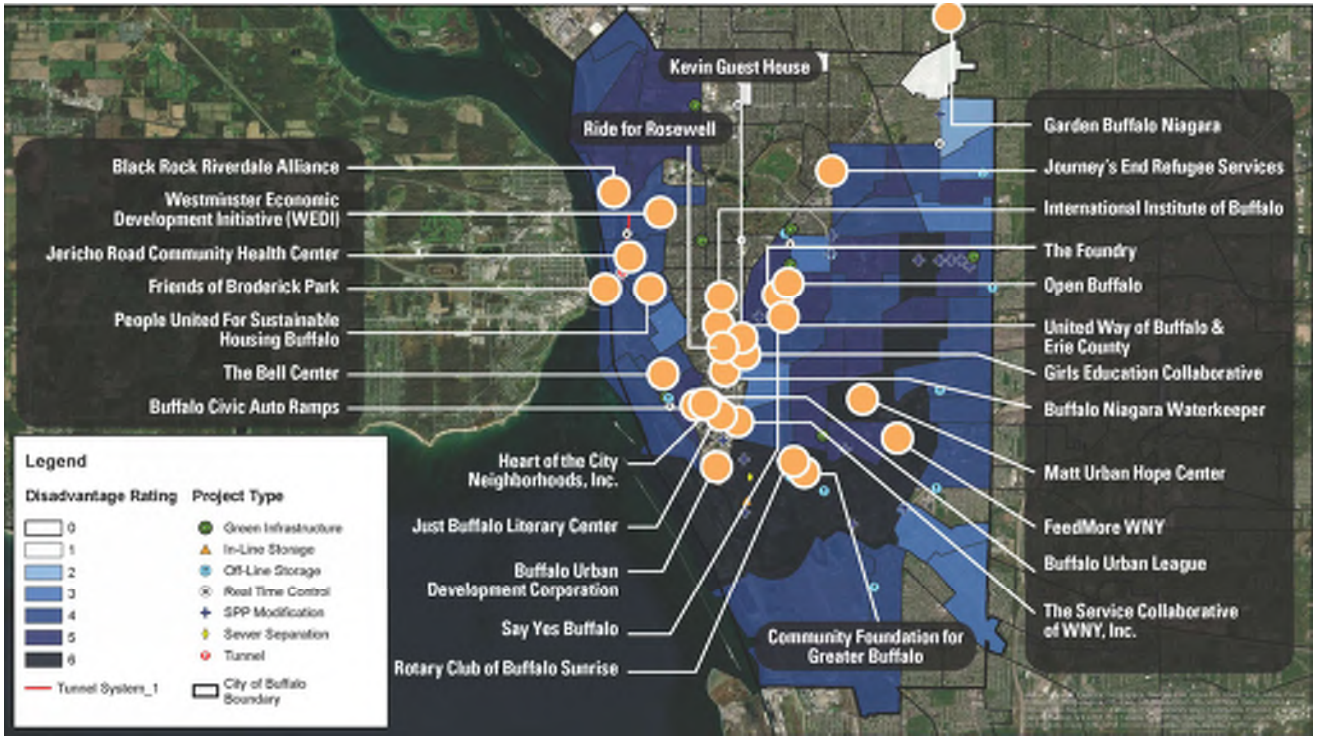
Community Engagement & Stakeholder Outreach

Program Management Impact:
Equity Indicators + Desired Outcomes

1	2	3	4	5	6	7
Community Ownership	Capacity Building	Healthy Communities	Heritage Preservation	Sustainable Wealth Creation	New and Reformed Policy for Sustainable Development	Growth Management and Neighborhood Development

Observation — Discovery — Planning and Application

Partner with Anchor Institutions to Reach the Community



Build a robust **Community Benefits Program** of community partnerships and **Stakeholder Advisory Committee** comprised of community leaders and residents

Accountability + Transparency: Indicators, representation, how are resources distributed and made available

Stakeholder Advisory Committee (SAC)

The purpose of the Stakeholder Advisory Committee (SAC) for the Buffalo Sewer Authority's Queen City Clean Waters Initiative is to serve as a vital bridge between the project team and the diverse communities of Buffalo. The SAC ensures that community perspectives, concerns, and insights are actively incorporated into the initiative's planning, implementation, and evaluation.

Organizations & Agencies Represented:

- Northland Workforce Training Center
- PUSH Buffalo
- Buffalo Urban League
- Board of Block Clubs
- NAACP
- Jericho Road
- Local Initiatives Support Corporation (LISC)
- Buffalo Niagara Waterkeeper
- City of Buffalo Office of Strategic Planning (OSP)
- Buffalo Center for Health Equity

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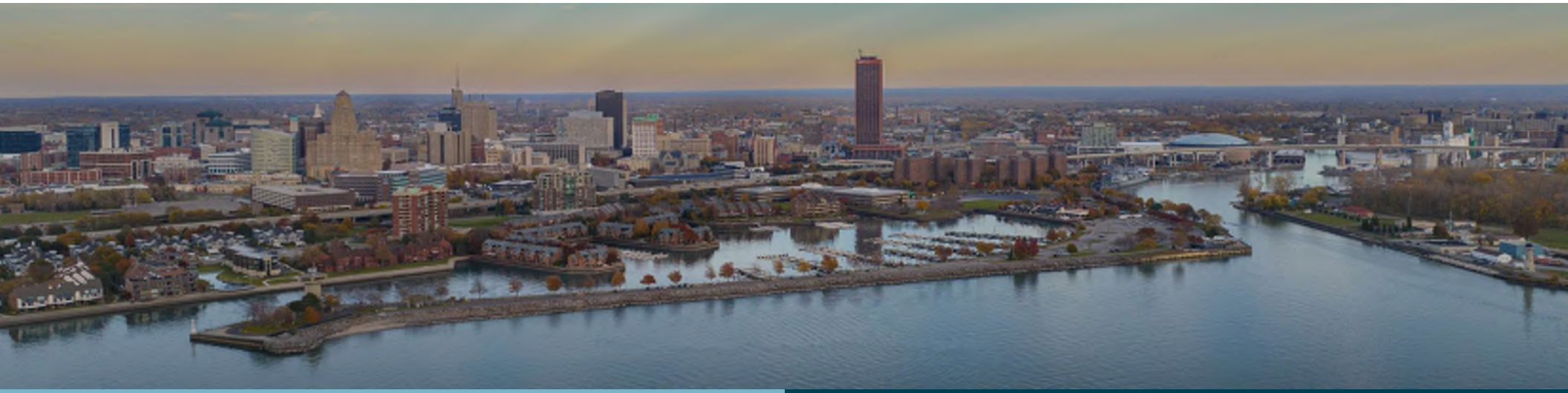


Buffalo Sewer wants to ensure construction and professional services contracts deliver a positive economic, environmental, and social impacts for residents.

Companies working with Buffalo Sewer are encouraged to support Buffalo nonprofits through volunteerism or financial contributions to defined community partners. The program will be included in contract terms and compliance monitoring to ensure effective participation.

COMMUNITY PARTNERSHIP PROGRAM

Coming in 2025

BSA's Commitment to the Inclusion of DBE/MWBE Firms

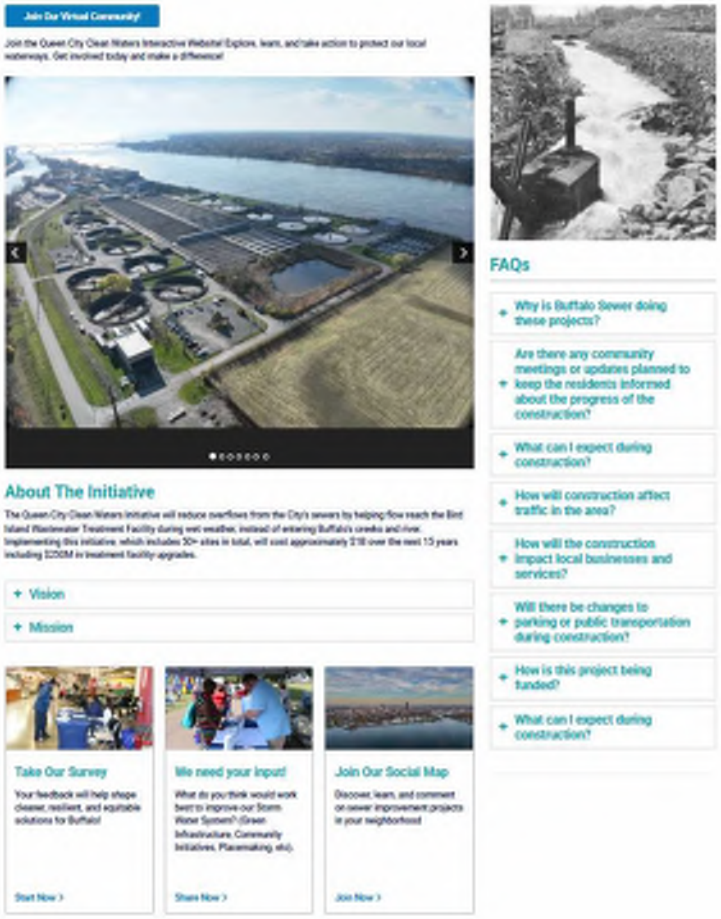
PURPOSE

- Create economic opportunity for Disadvantaged/Minority/ Women – Owned Business Enterprise (D/MBE/WBE) firms, including firms who are new to working with BSA and/or the City of Buffalo
- Promote meaningful teaming arrangements, mentorship, and partnership between established, experienced firms and new and/or smaller firms

Opportunities to Stay Engaged

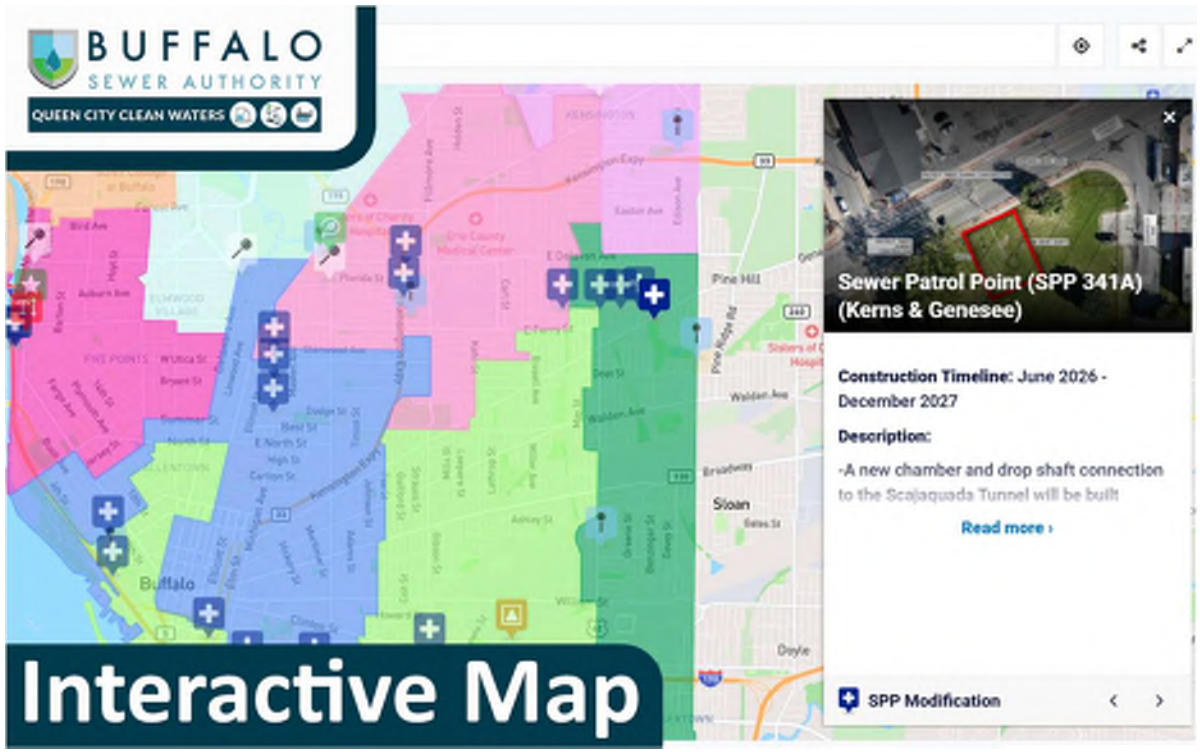
New! Queen City Clean Waters Interactive Website

BUFFALOQCCW.ORG

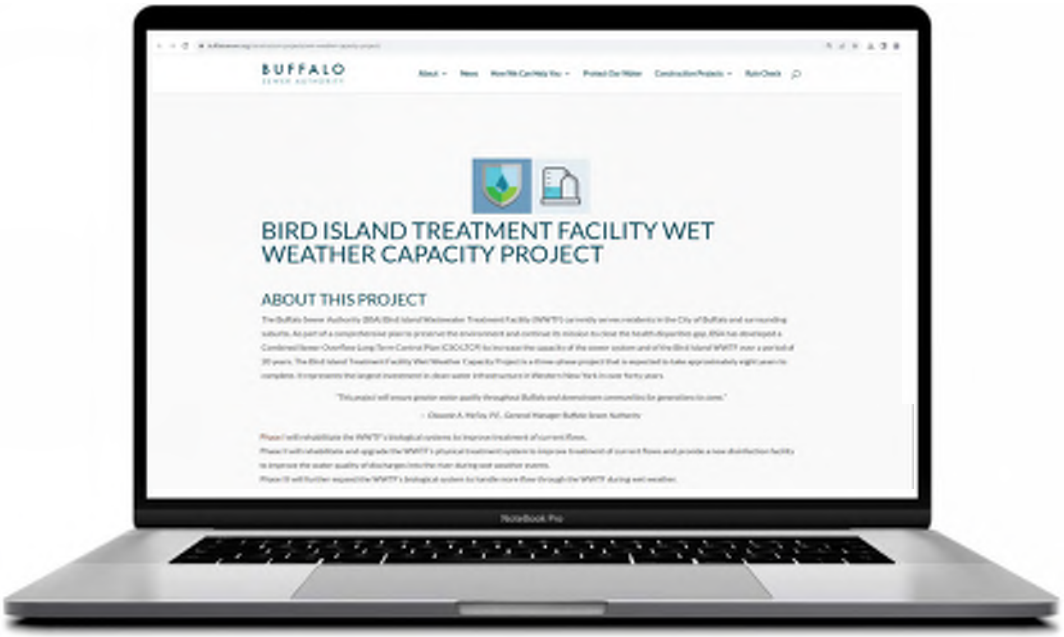


FAQs

- Why is Buffalo Sewer doing these projects?
- Are there any community meetings or updates planned to keep the residents informed about the progress of the construction?
- What can I expect during construction?
- How will construction affect traffic in the area?
- How will the construction impact local businesses and services?
- Will there be changes to parking or public transportation during construction?
- How is this project being funded?
- What can I expect during construction?



Buffalo Sewer Authority Website



buffalosewer.org

Your BEST source of information!

- Consultant, Contractor, and Supplier Opportunities
- Construction Updates
- FAQs
- Board Meeting Minutes
- Public Participation Plans

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Thank you!

GET IN TOUCH:

@BuffaloSewer

BuffaloSewer.org

@BuffaloSewer

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Queen City Clean Waters

Public Participation Forum

April 28th, 2025 – Northland Workforce Training Center

BSA Capital Projects Program Management Team:

TYLin | Greeley and Hansen Water Solutions

Arcadis | JM Davidson Engineering | Hallmark Planning & Development | e3 Communications | Watts Architecture & Engineering | CORE Environmental | Atlantic Testing Laboratories | Frandina Engineering and Land Surveying | KHEOPS Architecture, Engineering and Survey | International Institute of Buffalo | Jade Stone Engineering | NASCO Construction Services | JKMuir | People Inc. | CWD Consulting

Disclaimer

- This Presentation is provided as of April 28, 2025.
- If you are viewing this Presentation after that date, subsequent events could have a material effect on this information.
- By presenting this information, Buffalo Sewer has not undertaken any obligation to update the information beyond the date of the Presentation.
- Data and other information provided are not warranted as to completeness or accuracy and are subject to change without notice.
- The views, policies, programs, and practices reflected herein also are subject to change without notice.
- This Presentation is provided for your information and convenience only.

Agenda

BACKGROUND

OVERALL PLAN

SPECIFIC PROJECTS WITHIN COUNCIL DISTRICT

OPPORTUNITIES TO STAY ENGAGED

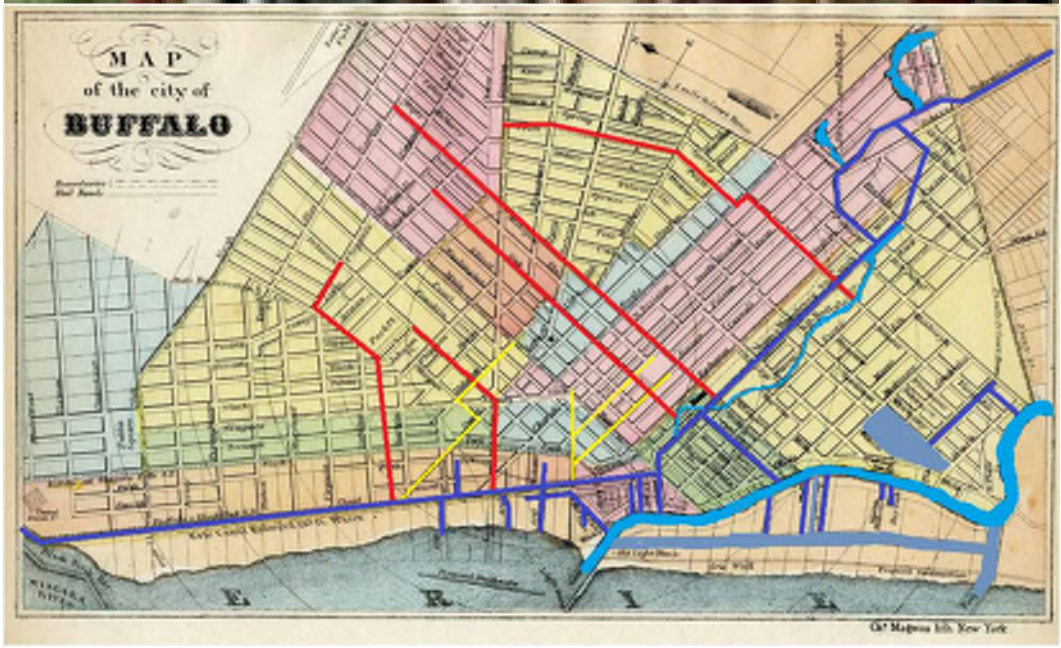
Key Terminology

- **CSO:** when a combined sanitary and storm sewer overflows into a waterbody during high flow precipitation events.
- **Interceptor:** large diameter sewer pipe that collects wastewater from smaller neighborhood pipes.
- **ILS:** the storage of wastewater temporarily within the existing sewer pipes.
- **OLS:** A tank that holds extra water when the sewer is full, then drains it to be treated when there's space.
- Orifice plate: A flow restricting device.
- **Overflow Weir:** a barrier that lets excess water flow over the barrier to control water levels.
- **RTC:** Sewer chambers with automatic gates store and release water to prevent overflows when the treatment plant is ready.
- **SPP:** A chamber that directs water to the treatment plant in dry weather or overflow area during heavy rain.
- **Underflow Pipe:** is a pipe that allows water to flow underneath a barrier to manage water levels to prevent flooding.
- **Weir:** a structure similar to a dam. Used to control water flow.

Background

A Brief History of Buffalo's Sewers

- Erie Canal opened in 1825
- Drain the Swamp
- Cholera epidemics
  - 1832
  - 1849
  - 1852



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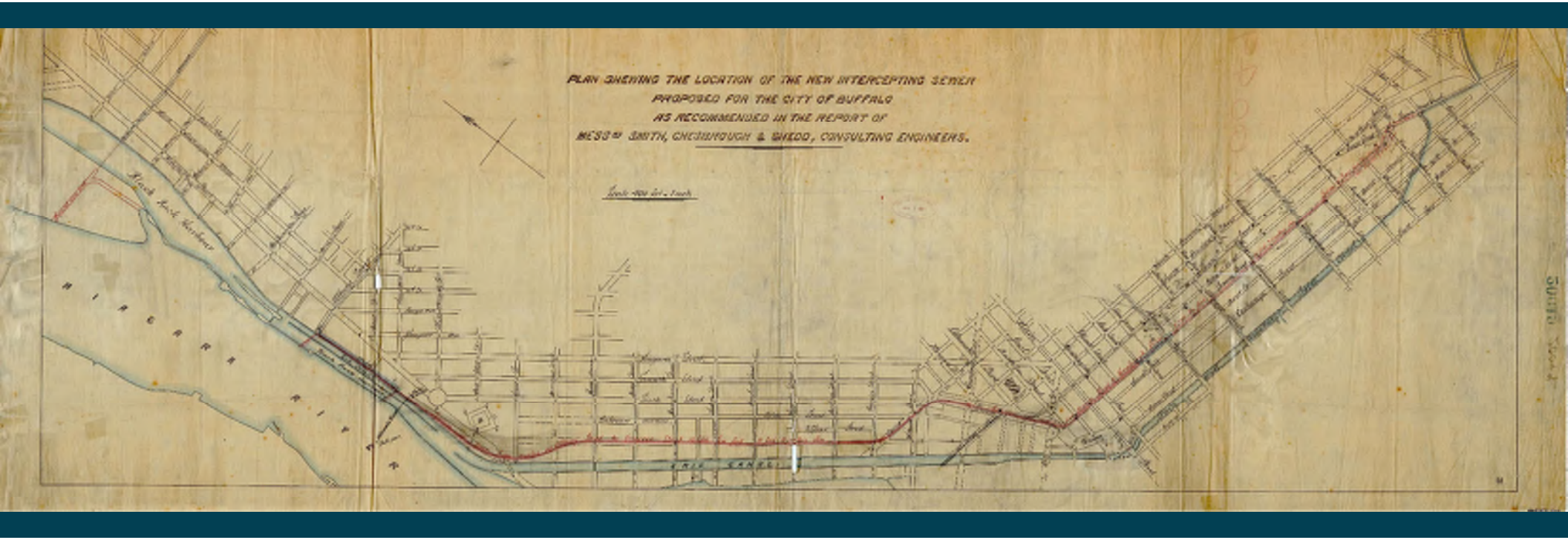
A Brief History of Buffalo's Sewers *(Cont.)*

- George E. Waring, Jr. 1884
- Considered, but rejected
  - Sewer separation
  - Treatment Facility
- Trunks
  - Genesee, Bird-Ferry, Hertel, Bailey, Mill Race
- Swan
  - Three flushing gates
  - Main & Hamburg Canal and Wilkenson Slip: putrid
  - 90 Degree turn at Albany Street
  - Bird Island Pier, now the tip of Freedom Park

The Swan Trunk



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1900-1929: Burying of Waters

Waterways → Sewers

- Main Hamburg Canal to Hamburg Drain 1901-1903
- Ohio Basin to Ohio Drain 1902-1904
- Cornelius Creek to Hertel Avenue Overflow Drain 1914
- Scajaquada Creek to Scajaquada Drain 1925

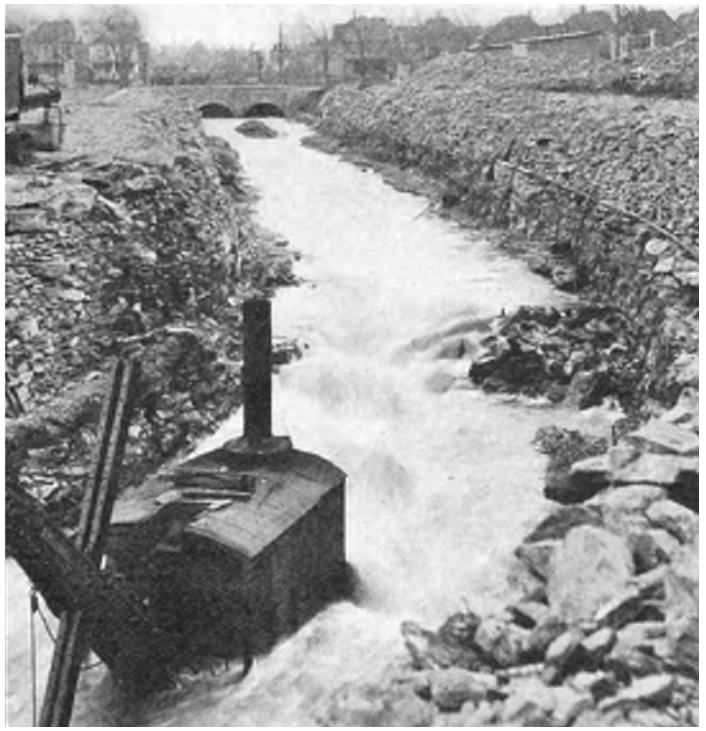
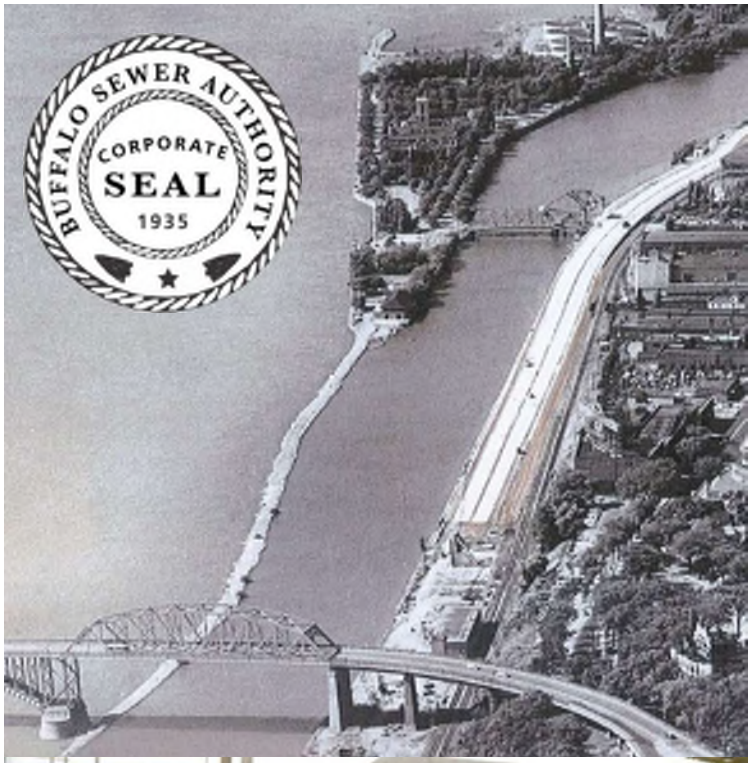


Photo Credit: wnyheritage.org/content/scajaquada_drian_project_-_1920s/index.html

Buffalo Sewer Authority's Founding

- 1907 Canadian Report:
  - Niagara Falls, NY Typhoid Rate
  - 0.2% Population Dying Each Year
- International Joint Commission: January 11, 1909
- 1918 Report: 80% Niagara River Pollution from Buffalo
- NYS Dept. of Health Mandate: March 1935
  - Primary Sewage Treatment Plant
  - Interceptor Sewers
- Establishment of BSA: April 8, 1935
  - $15 M Bonding Capacity ($344 M 2024)



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1941-1970: Storm Relief and Sprawl

NYS Route 33

- Severed Bird-Ferry Trunk
- Stormwater added to system
- New pump station for stormwater and groundwater
- New trunk sewers constructed

I-198

- New storm sewers
- Direct discharge to Scajaquada Creek

I-190

- Old Erie Canal bed
- On top of:
  - Swan Trunk
  - Interceptors
  - Hamburg Drain

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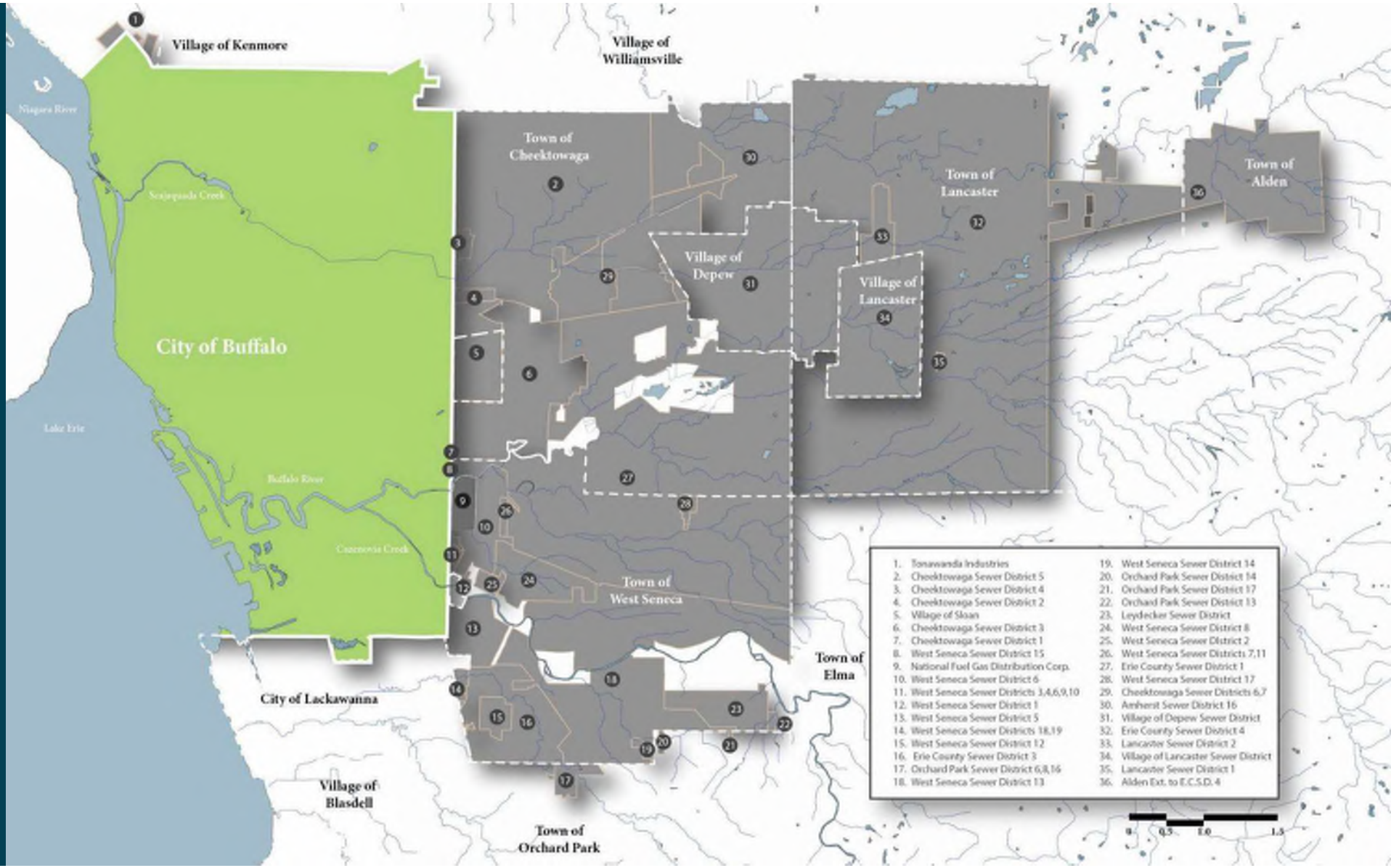
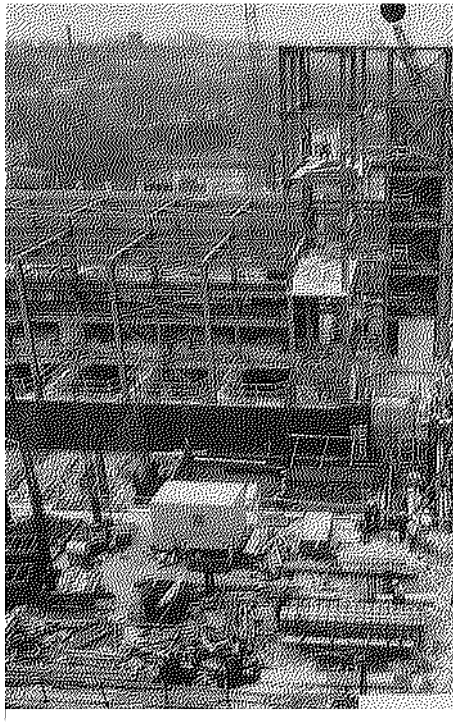
1941-1970: Storm Relief and Sprawl



Clean Water Act (1972)

- Scajaquada Tunnel
- Weir Modifications
  - Diversion from Scajaquada Drain to Tunnel
  - Raising of Weirs
- Kelly Island Connection
- Backwater Gates
- Secondary Treatment Process



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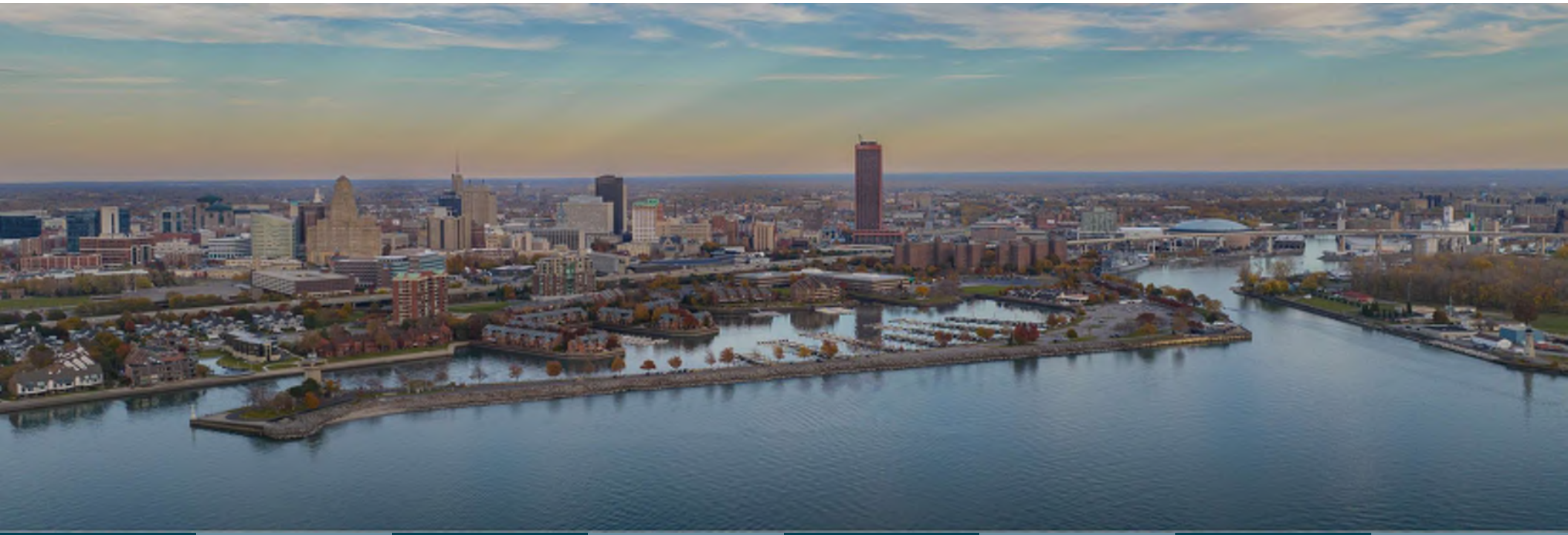

1994

USEPA CSO Control Policy Issued (Required Development of LTCP)

2004

Submitted Initial LTCP to New York State Department of Environmental Conservation (NYSDEC)

2007

NYSDEC/USEPA Request Additional Evaluations

2009

Negotiation of Consent Decree Begins

2012

Submitted LTCP Update to USEPA/ NYSDEC (as directed by regulatory agency

2014

Final LTCP Report Submitted to USEPA/NYSDEC

2022

Revised collection system model is approved

2023

QCCW (51 proposed projects) submitted to NYSDEC

Approved Recalibration Results

- Some Combined Sewer Overflows (CSOs) Already in Compliance (Some Projects Not Needed)
- LTCP Does Not Reach Compliance for Others!

Waterbody	Activation Goals	Projected Activations
Buffalo River	6	15
Niagara River	9	14
Scajaquada Creek	4	19

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Combined Sewer Overflows Compliance

Combined Sewer Overflows							
003	004	005	006	007	008	009	010
011	012	013	014	015	016	017	022
023	025	026	027	028	029	031	032
033	035	037	038	039	040	042	044
046	047	048	049	050	051	052	053
054	055	056	057	058	059	060	061
062	063	064	066				

Proportion in Each Compliance Category

37 8 7

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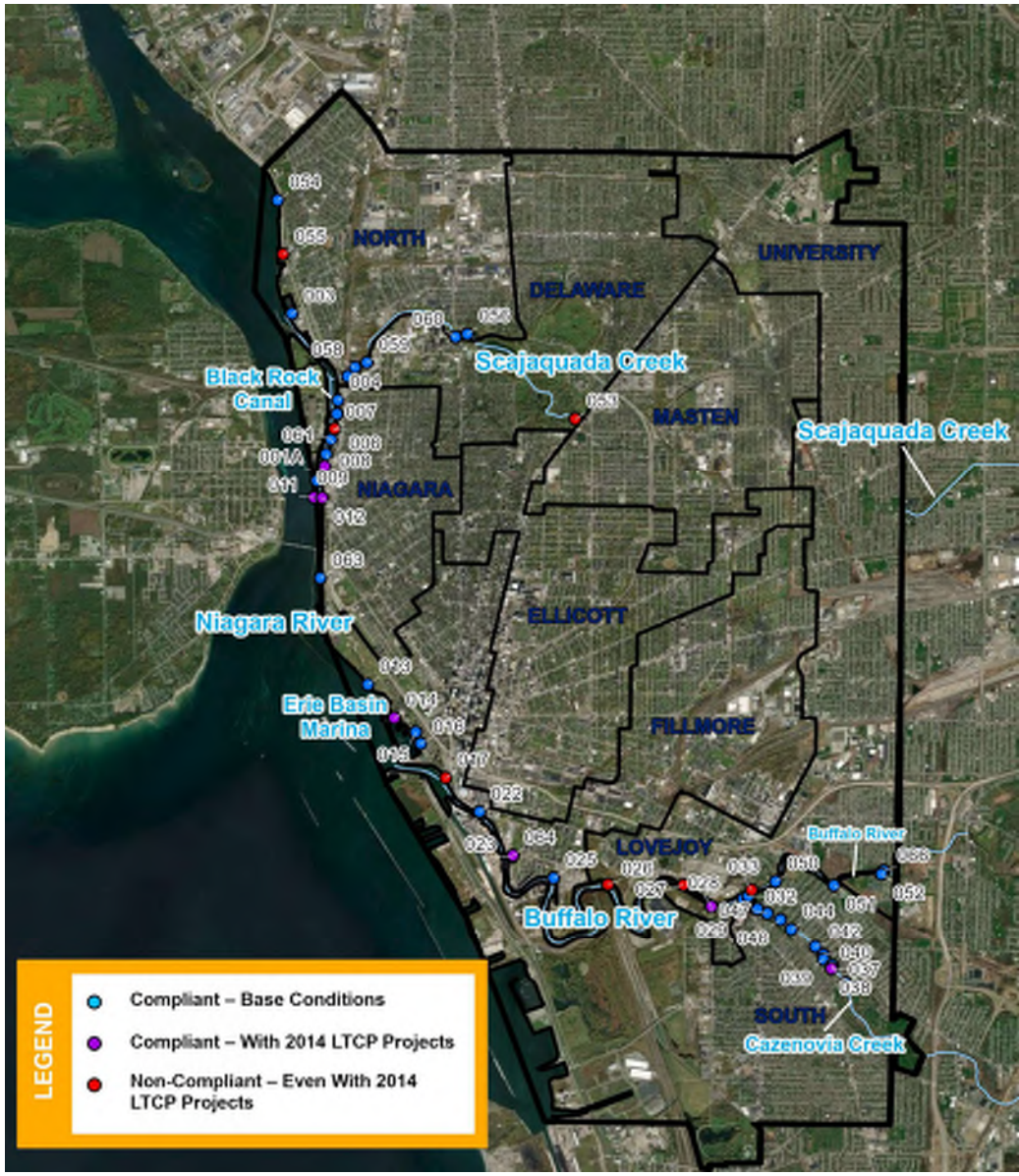
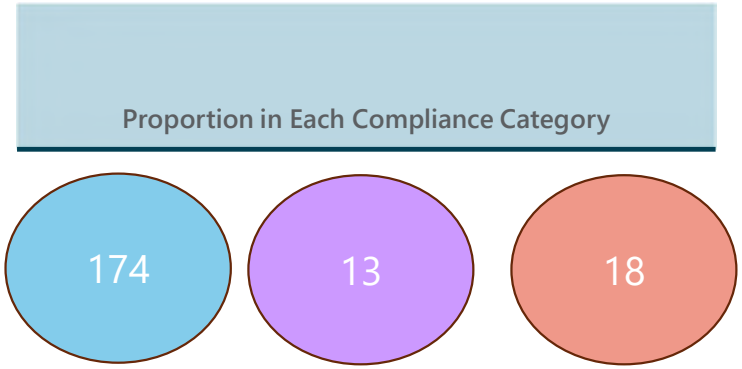
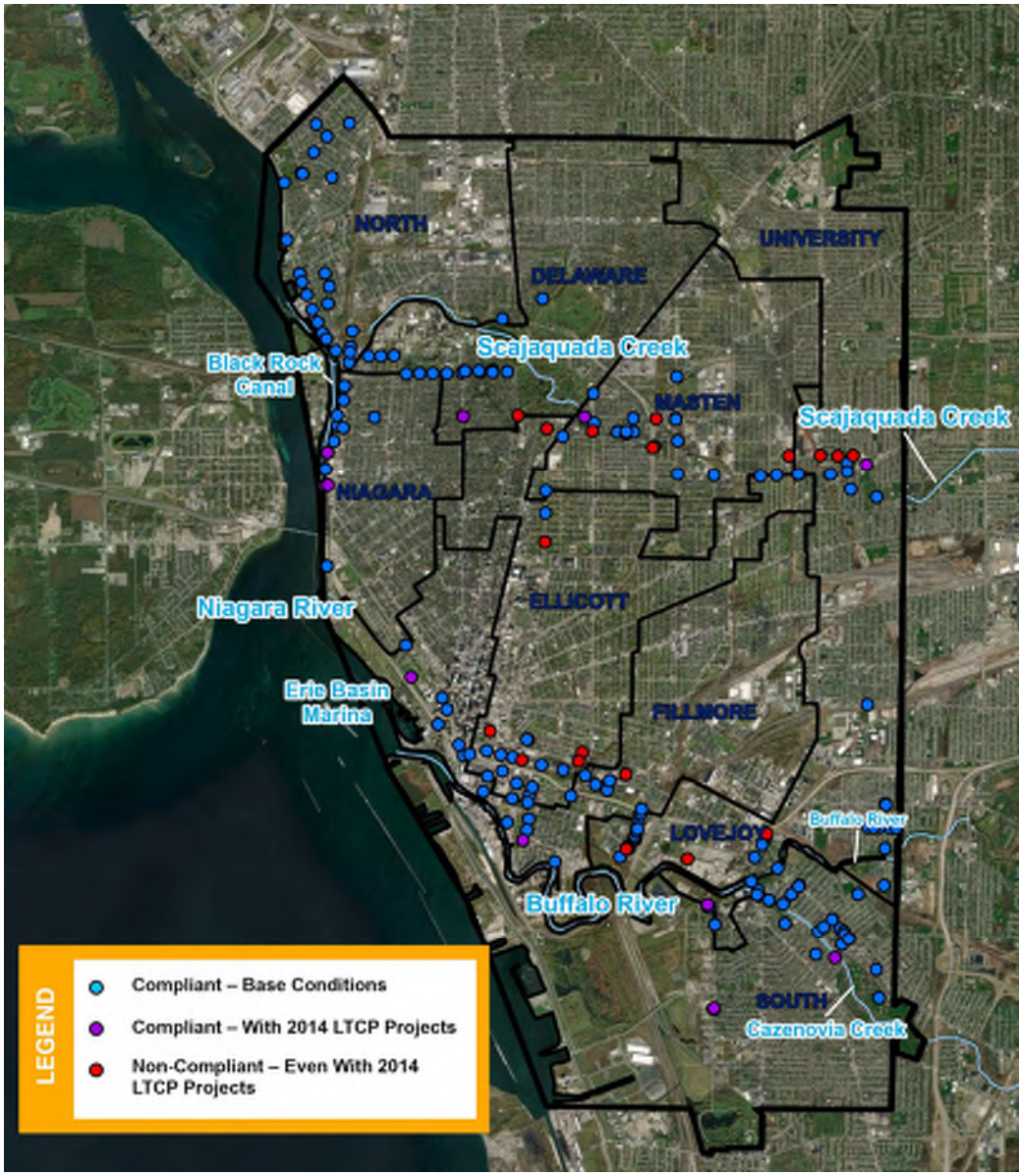


Sewer Patrol Points (SPP) Compliance





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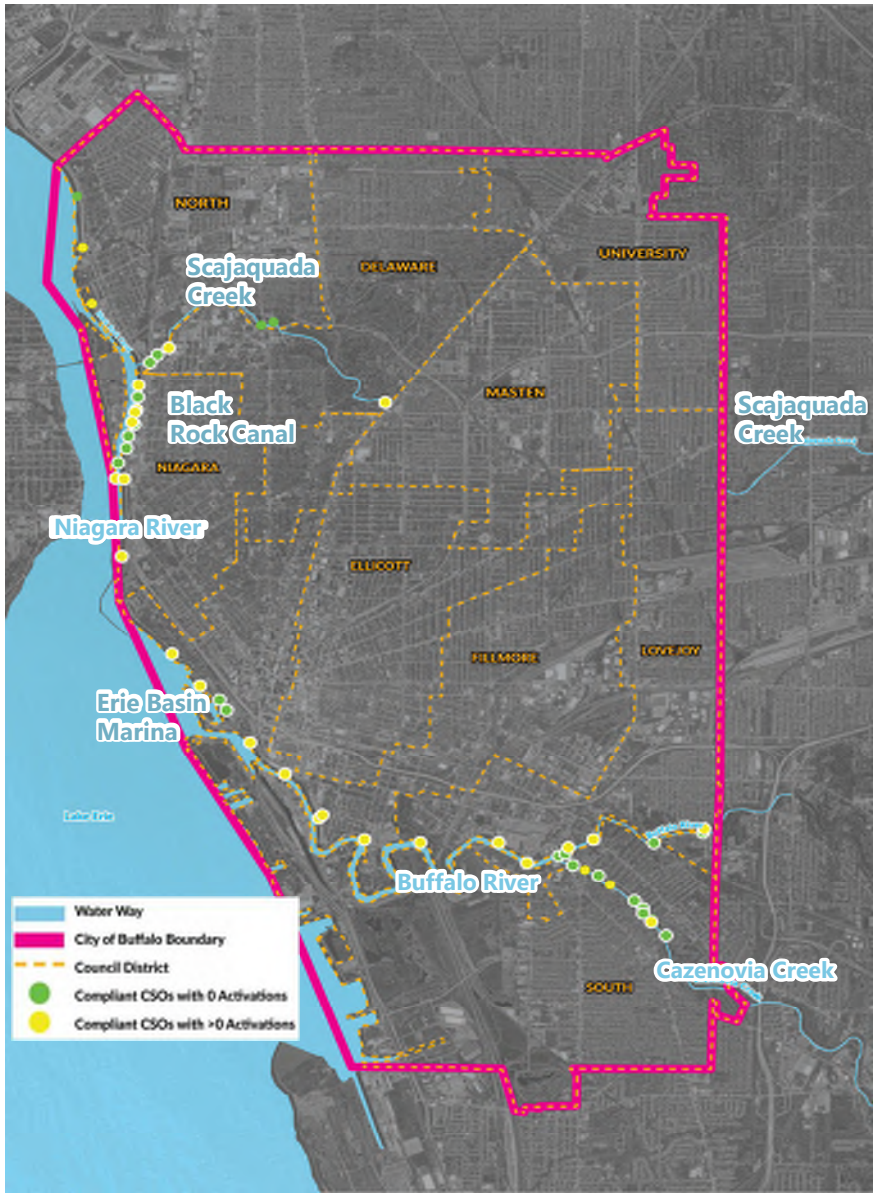
AH3

Development of Activation Targets

ACTIVATION = OVERFLOW OCCURRENCE

Waterbody	Activation Goals	Selected Alternatives Completion Activations
Black Rock Canal	0-4	4
Buffalo River	0-6	6
Cazenovia Creek - B	0-0	0
Cazenovia Creek - C	0-6	5
Erie Basin Marina	0-2	2
Niagara River	0-9	9
Scajaquada Creek	0-4	4
Overall	0-9	9



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Lessons Learned from the 2014 LTCP

WHY WAS THE OPTIMIZATION DONE?

Feasibility Constraints for Baseline Projects in the 2014 LTCP:

- Many proposed projects were unfeasible due to compliance issues and costs, highlighting a lack of thorough consideration regarding industrial heritage and the specifics of infrastructure design, such as the differences between open and underground tanks for vehicle support.

AH1

Constraints of Offline Storage (OLS) and Storage Tunnel Projects:

Land Acquisition

Environmental Justice

Operational Cost

Depth of Bedrock

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RN3

Optimization Approach

Globally Coordinated Control Strategy

Real time control (RTC) sites collaborate to prevent overflows and reduce peak flows, regardless of local conditions.

System Evaluation Considerations and Constraints

- Property ownership
- Underground contamination concerns
- Gravity flow vs. pumping
- Prioritization of sewer patrol points (SPP) with low activation requirements and high overflow in baseline projects
- Potential coordination

Original Projects Considered

77 projects including In-line (ILS) and Off-line Storage (OLS), Green Infrastructure, Sewer Separation, and Sewer Patrol Point (SPP) Modification

Optimization Rounds

- Project alternatives per SPP
- Full system optimization
- Minimizing cost while achieving compliance

Tools Used

Cloud computing for alternatives analysis

Outcome

51 projects identified as Selected Alternatives

Queen City Clean Waters (QCCW) – Mission and Vision

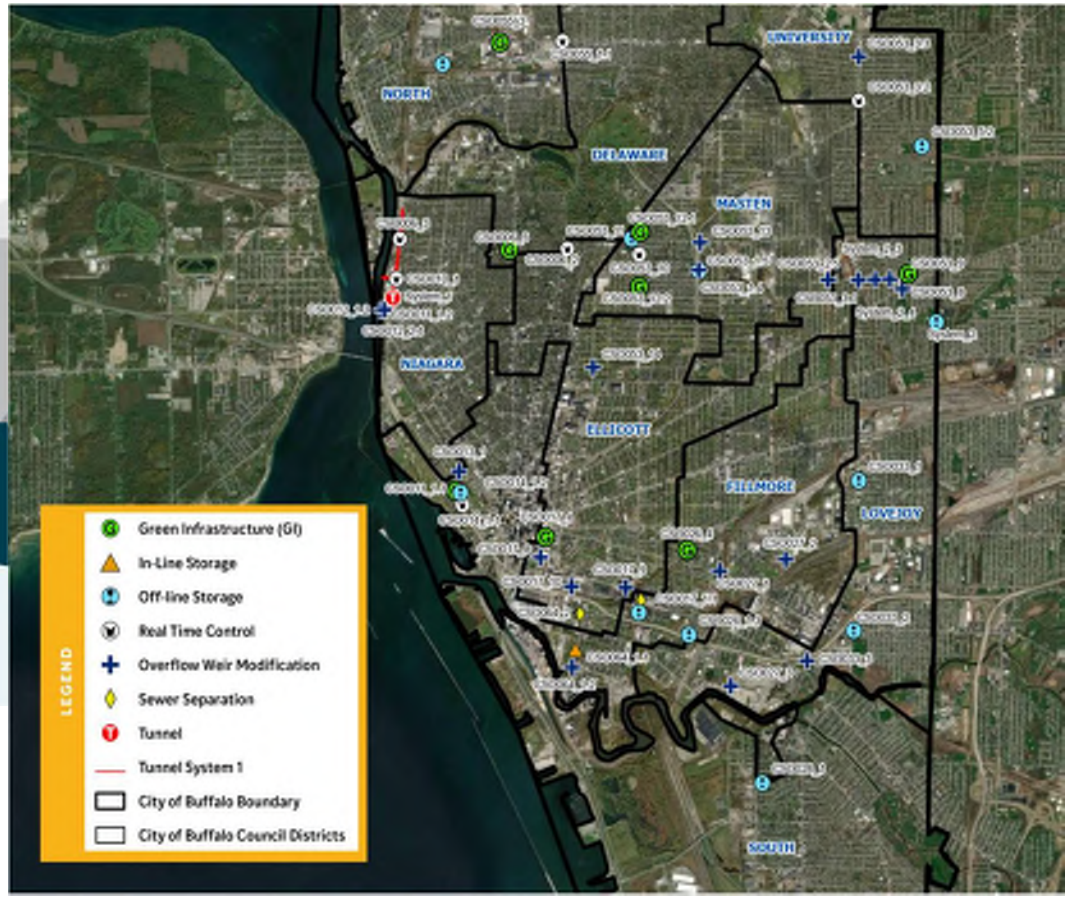
BUFFALO SEWER AUTHORITY
QUEEN CITY CLEAN WATERS

VISION
Clean waters and a resilient Buffalo.

MISSION
To safeguard public health and the environment while fostering strong community partnerships, creating meaningful workforce opportunities, and driving lasting economic impact for future generations in Buffalo.

Queen City Clean Waters

PROGRAM OVERVIEW



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Overall Plan

AH1

Construction Impacts and Mitigation Measures

- During construction, residents can expect to see equipment and traffic cones off to one side of the road.
- Temporary disruptions, such as noise and dust, will be minimized as much as possible.
- Sewage odors will NOT be present in homes but may be present outside.

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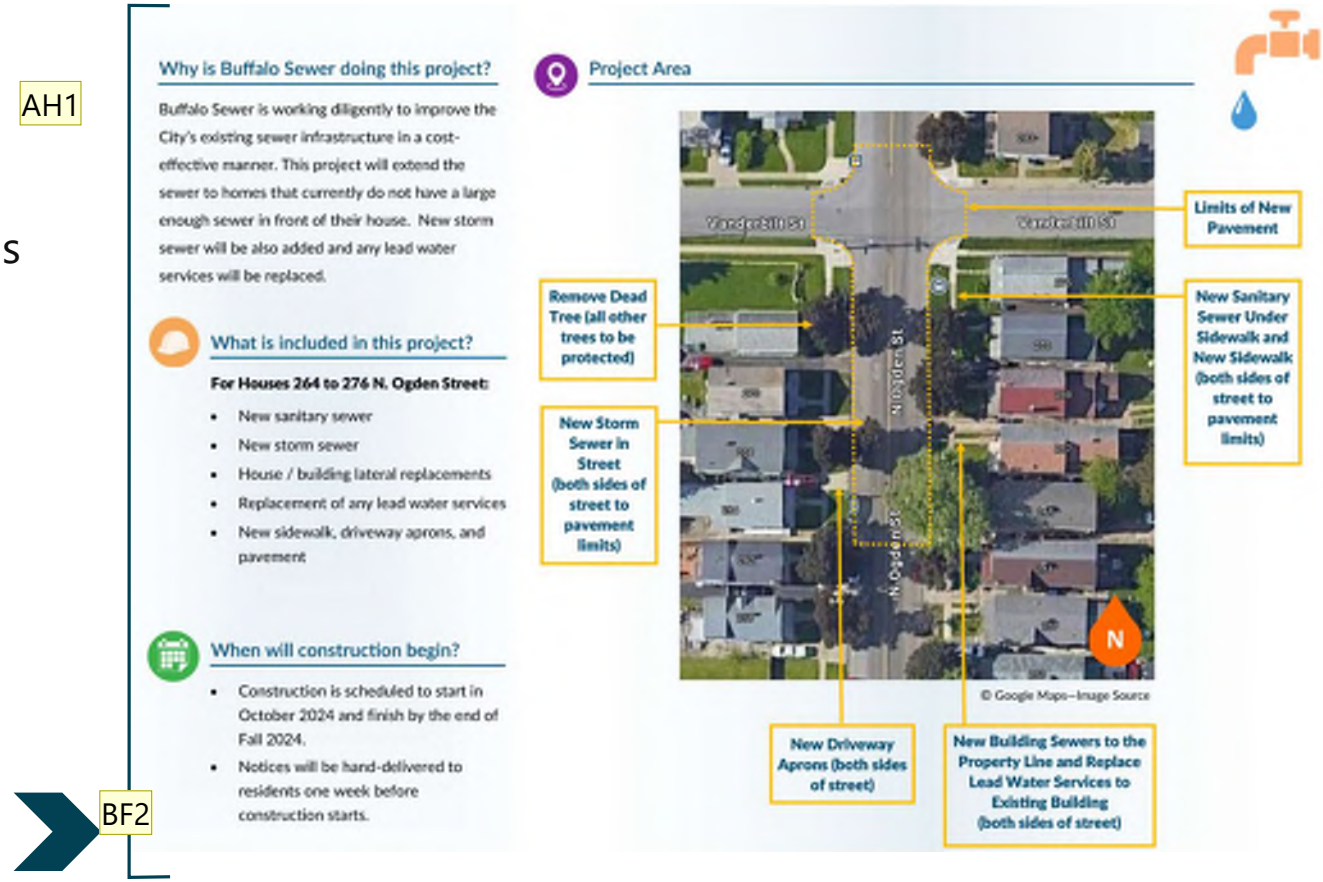
Construction Impacts and Mitigation Measures

- Residents may experience temporary sewer and water service interruptions for a few hours, with advance notifications provided.

AH1

- These interruptions will not last days. We will address concerns about explosives, drilling, dust, and air pollution, and manage environmental hazards like asbestos and PCB-laden soils per best practices.

BF2

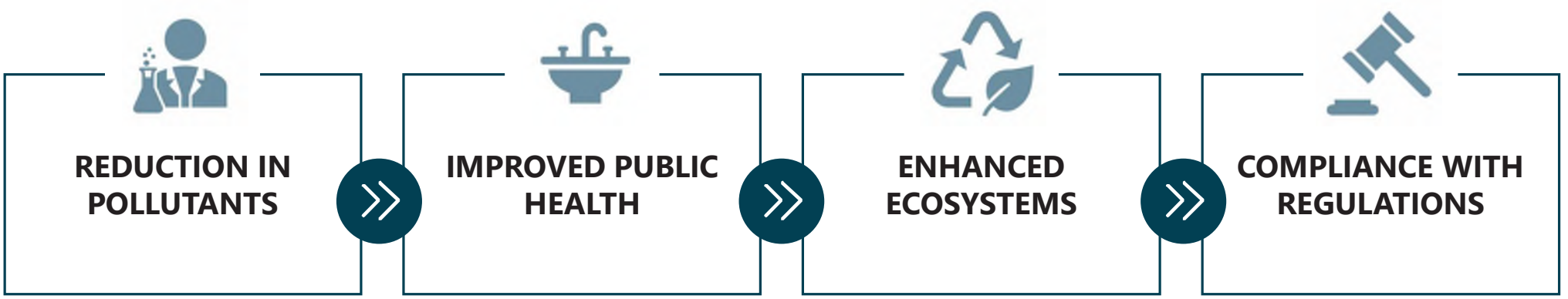


BUFFALO SEWER AUTHORITY

Construction Impacts and Mitigation Measures

- New traffic patterns will be in place during construction, including:
  - Partial or full road closures
  - Sidewalk closures
  - Limited street parking
  - Possible detours (for vehicles, cyclists and pedestrians)/ relocated bus stop
  - Rodent control plans
  - Fencing and site visibility

Water Quality Benefits



BUFFALO SEWER AUTHORITY

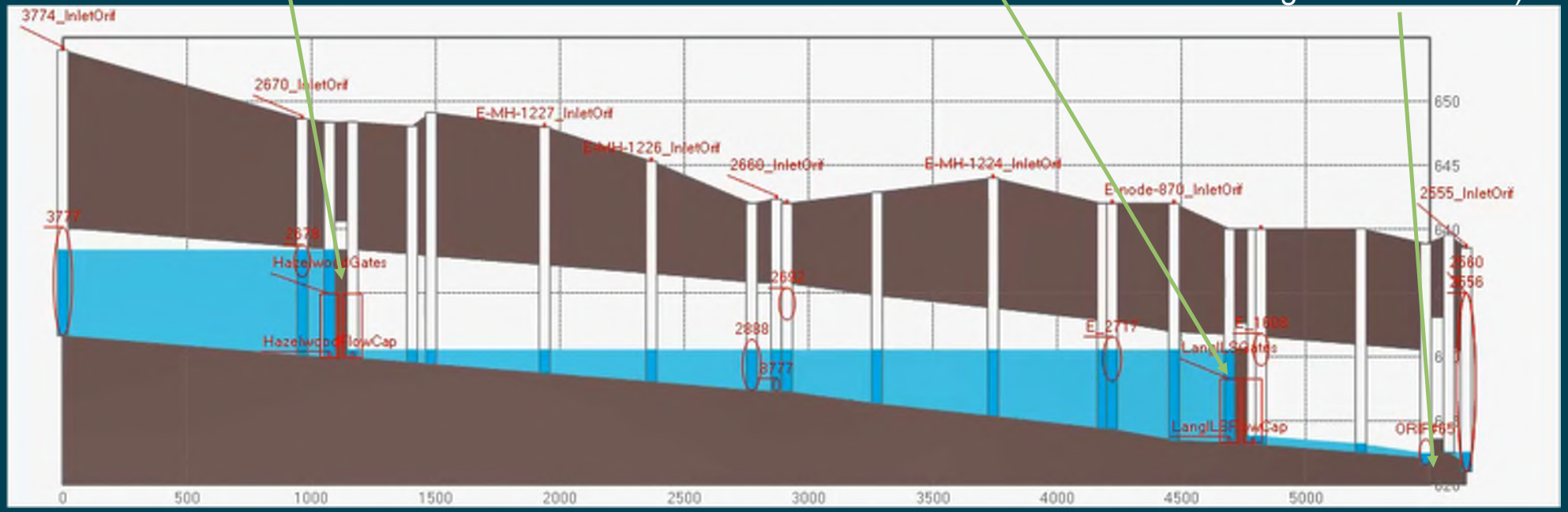
Hertel at Deer In-Line

Coordinated Remote Control for In-Line Storage

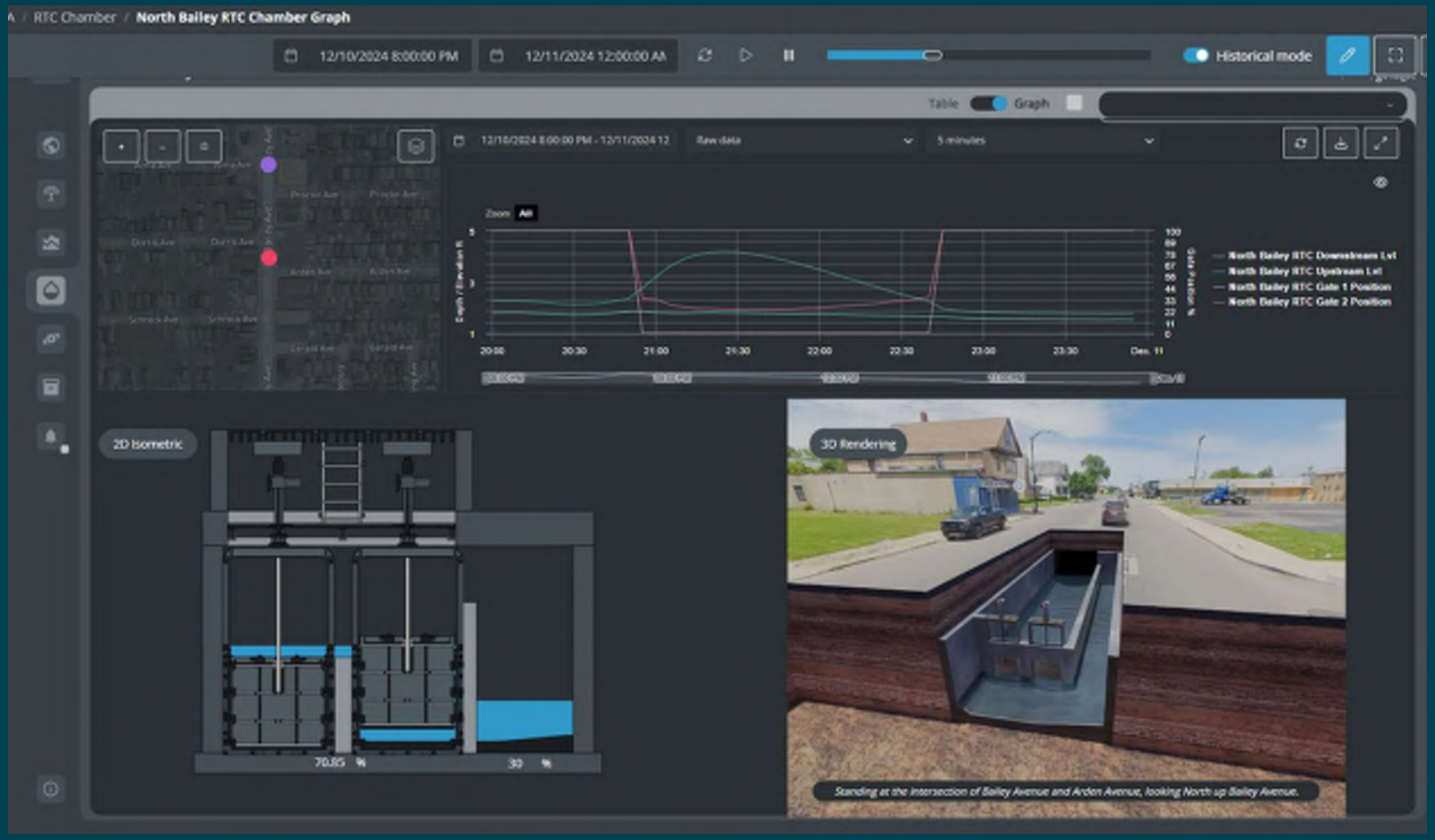
Hazelwood RTC, commissioned in 2019

Lang Ave RTC, commissioned in 2017

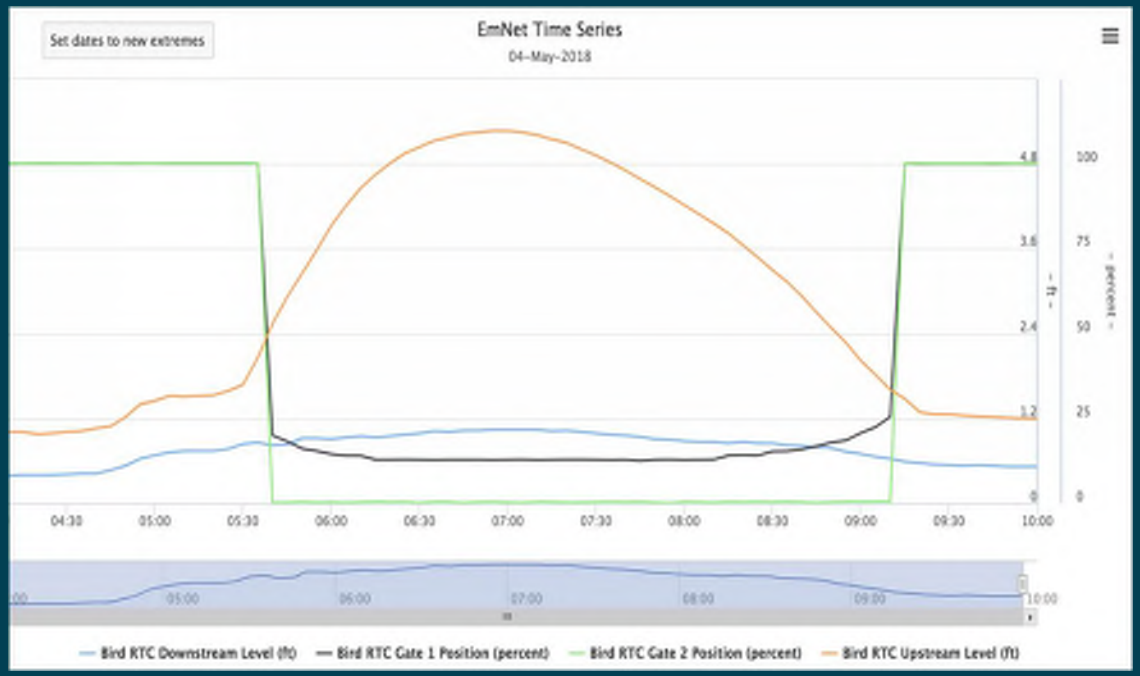
SPP340 (CSO Regulator Chamber)

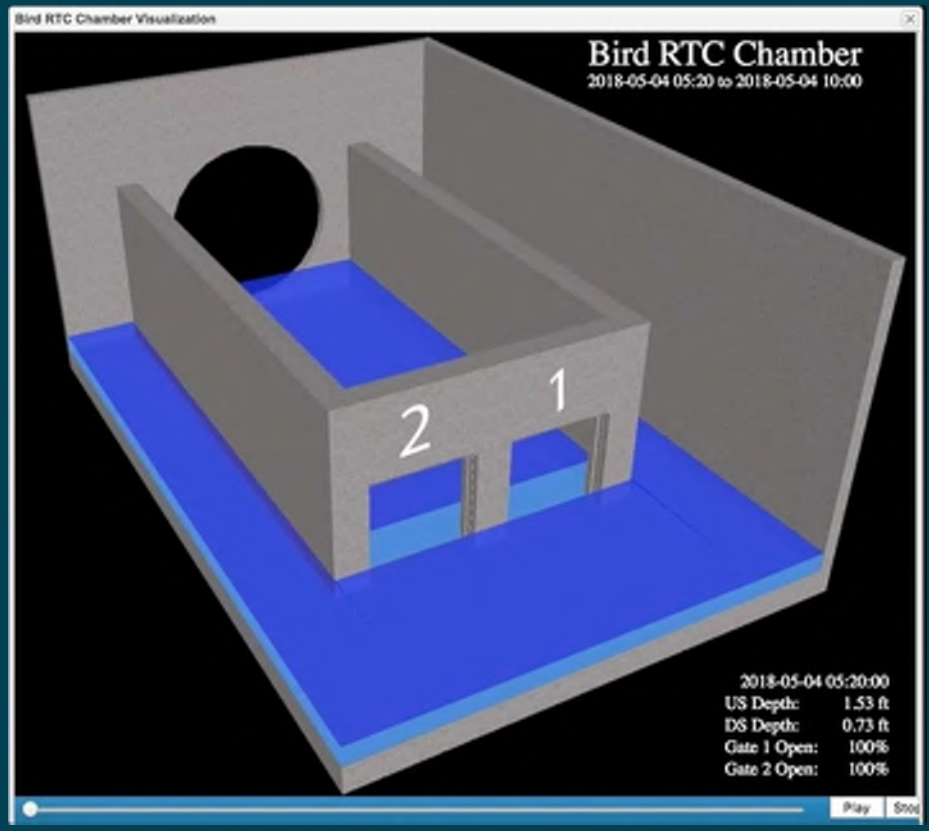


Local Control for In-Line Storage (North Bailey RTC)



Bird Avenue RTC





During wet weather, downstream sensors indicate when it is time to begin storing
Nearly every gallon stored would have contributed to a CSO activation
The gates take turns with each event – one closes entirely while the other modulates.

Community Engagement & Stakeholder Outreach

Queen City Clean Waters Stakeholders

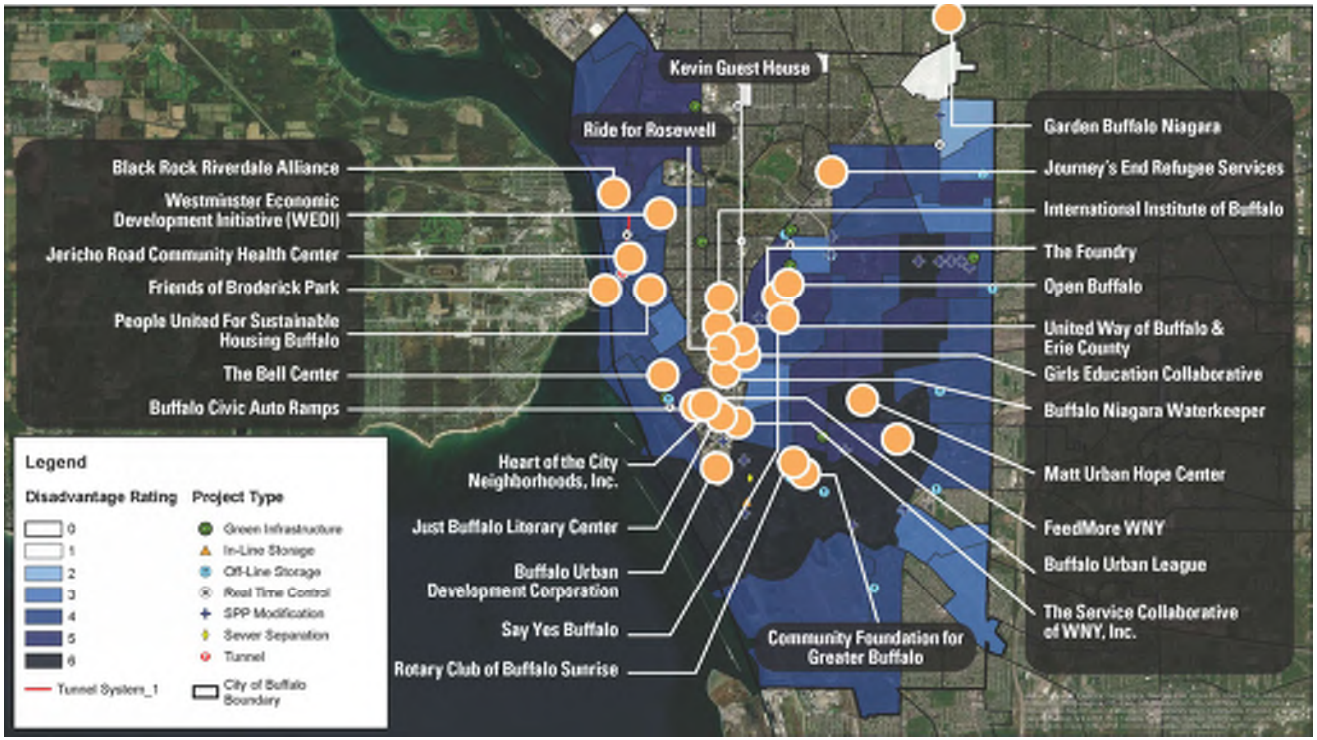
Residents	Delaware, Ellicott, Filmore, Lovejoy, Masten, North, Niagara, South, and University Districts
Local Government Officials	Elected Officials
Community-Based Organizations	Resident advocacy groups, including some in Queen City Clean Water's Stakeholder Advisory Council
Stakeholder Advisory Committee	Northland Workforce Training Center, PUSH Buffalo, Buffalo Urban League, Board of Block Clubs, NAACP, Jericho Road, LISC, Buffalo Niagara Waterkeeper, City of Buffalo Office of Strategic Planning, and Buffalo Center for Health Equity
Businesses	Local businesses that may be affected by construction activities or changes in water rates
Environmental Groups	Organizations focused on water quality and environmental sustainability
City Agencies	Entities responsible for water supply and infrastructure, including parks and recreation, will be involved in implementing the plan

Program Management Impact:
Equity Indicators + Desired Outcomes

1	2	3	4	5	6	7
Community Ownership	Capacity Building	Healthy Communities	Heritage Preservation	Sustainable Wealth Creation	New and Reformed Policy for Sustainable Development	Growth Management and Neighborhood Development

Observation — Discovery — Planning and Application

Partner with Anchor Institutions to Reach the Community



Build a robust **Community Benefits Program** of community partnerships and **Stakeholder Advisory Committee** comprised of community leaders and residents

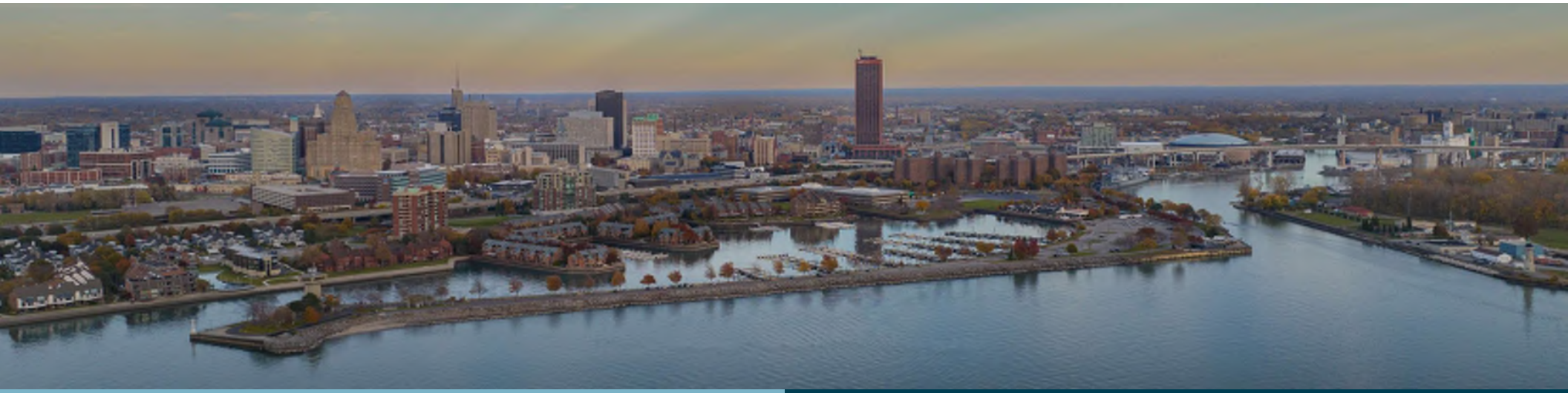
Accountability + Transparency: Indicators, representation, how are resources distributed and made available

Stakeholder Advisory Committee (SAC)

The purpose of the Stakeholder Advisory Committee (SAC) for the Buffalo Sewer Authority's Queen City Clean Waters Initiative is to serve as a vital bridge between the project team and the diverse communities of Buffalo. The SAC ensures that community perspectives, concerns, and insights are actively incorporated into the initiative's planning, implementation, and evaluation.

Organizations & Agencies Represented:

- Northland Workforce Training Center
- PUSH Buffalo
- Buffalo Urban League
- Board of Block Clubs
- NAACP
- Jericho Road
- Local Initiatives Support Corporation (LISC)
- Buffalo Niagara Waterkeeper
- City of Buffalo Office of Strategic Planning (OSP)
- Buffalo Center for Health Equity



Buffalo Sewer wants to ensure construction and professional services contracts deliver a positive economic, environmental, and social impacts for residents.

Companies working with Buffalo Sewer are encouraged to support Buffalo nonprofits through volunteerism or financial contributions to defined community partners. The program will be included in contract terms and compliance monitoring to ensure effective participation.

COMMUNITY PARTNERSHIP PROGRAM

Coming in 2025

The Why:

Collaboratively, our aim is to create a meaningful and positive impact within the communities and neighborhoods served by the Authority by creating an avenue for community partnerships to form with consultants and contractors of the Buffalo Sewer Authority.

EDUCATION

Supporting educational programs and initiatives, particularly focusing on Science, Technology, Engineering, Arts, and Mathematics (STEAM). These programs aim to equip individuals with the knowledge and skills necessary to excel in these fields. By fostering a strong foundation in STEAM, the program will inspire the next generation of innovators and problem-solvers who can contribute to the community's growth and sustainability.

WORKFORCE DEVELOPMENT

Support of existing and creation of comprehensive job training programs that prepare individuals for employment. These programs will provide hands-on training, certifications, and career development opportunities. By building a skilled workforce, the program aims to support the local economy and ensure that our community has the expertise needed to maintain and improve essential infrastructure.

ECONOMIC DEVELOPMENT

We are dedicated to promoting local economic growth by supporting infrastructure projects that create jobs and stimulate economic activity. Through strategic partnerships with local businesses, contractors, and community organizations, the program aims to drive economic prosperity and enhance the quality of life for residents. The efforts will focus on sustainable development that benefits both the economy and the environment.

PUBLIC AND ENVIRONMENTAL HEALTH

Improving public health and environmental quality is central to the mission and serves as a key driver for enhancing overall well-being. This program is designed to support both community members and public spaces, fostering their care and development for a sustainable future.

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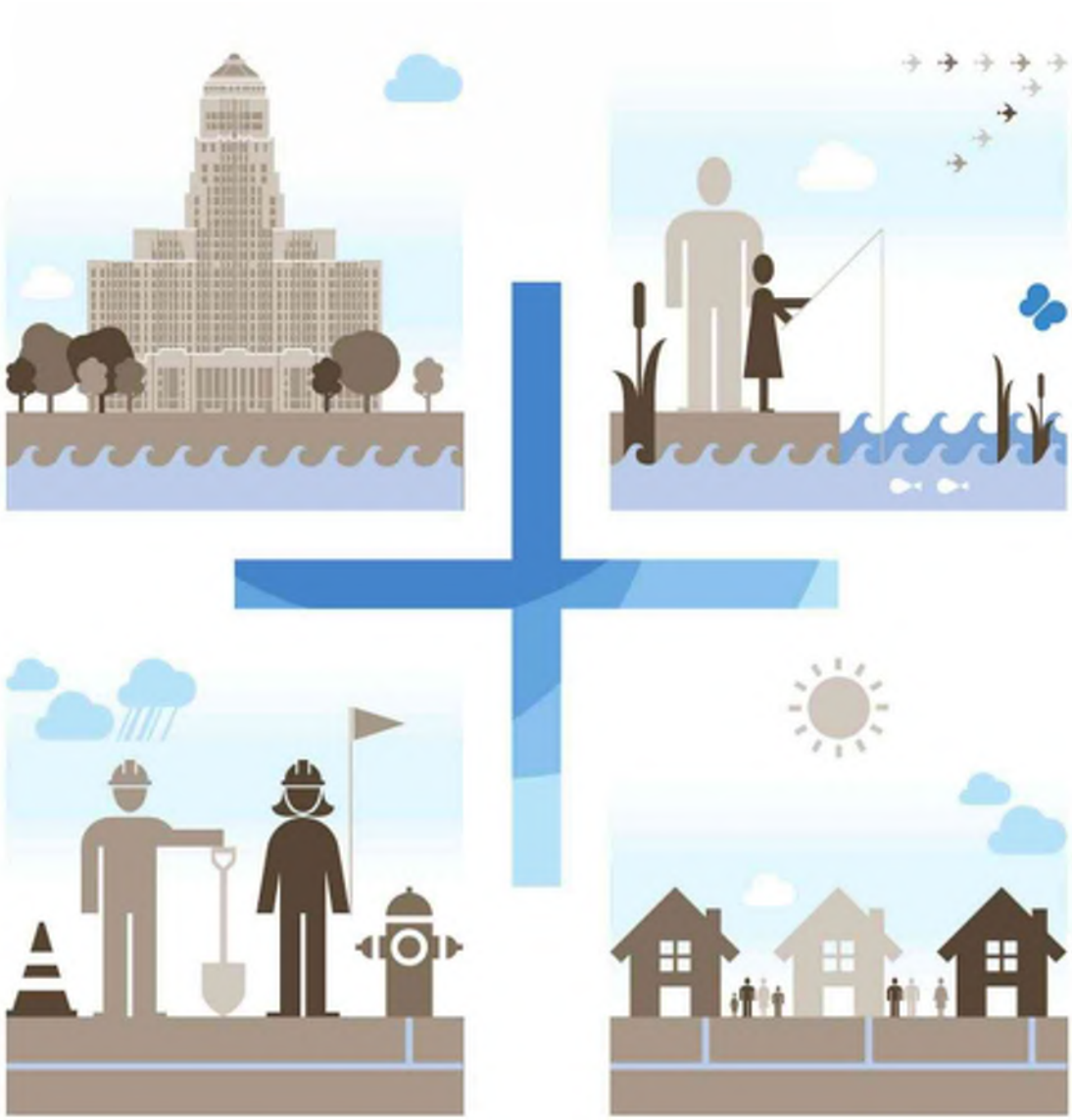
Potential Community Benefits Program Areas

- Workforce Development
- Economic Development
- Education
- Community and Environmental Health



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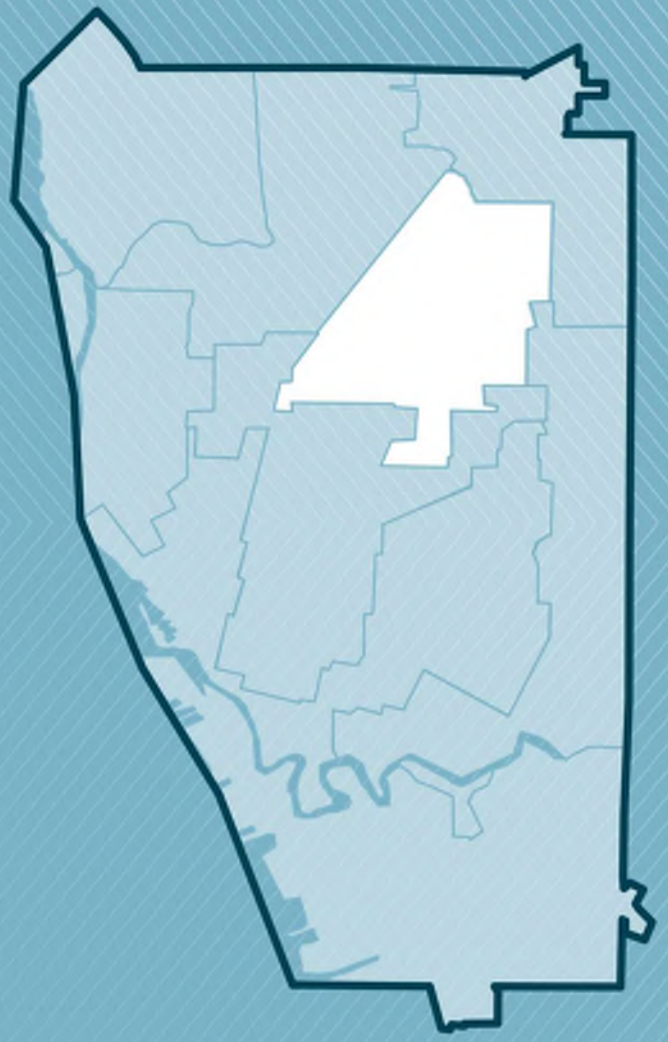
BSA's Commitment to the Inclusion of DBE/MWBE Firms

PURPOSE

- Create economic opportunity for Disadvantaged/Minority/ Women – Owned Business Enterprise (D/MBE/WBE) firms, including firms who are new to working with BSA and/or the City of Buffalo
- Promote meaningful teaming arrangements, mentorship, and partnership between established, experienced firms and new and/or smaller firms

Masten District

Specific Projects



CS2

Jefferson & E Delavan

OFFLINE STORAGE (OLS)

Project Description:

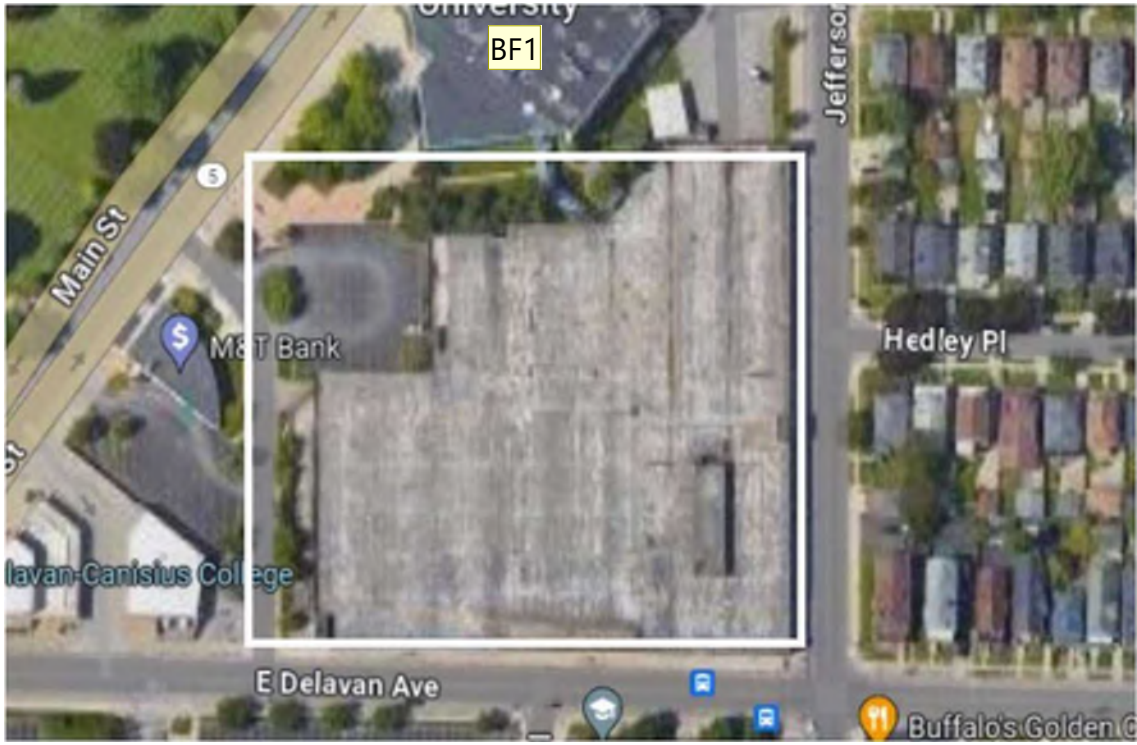
– 1.5 MG Offline Storage Tank, flows from SPP 333 rerouted to tank

– Located at an existing parking garage (set for demolition) at Jefferson Avenue and East Delavan Avenue

– Three phased project

Estimated Cost: $105,400,000

Waterbody Impacted: Scajaquada Creek



TIMELINE ▼

Design Start Date
December 2021

June 2026
Design Completion Date

Required Construction Start Date
September 2026

April 2032
Required Construction End Date

CS1

Jefferson & Florida

REAL TIME CONTROL CHAMBER AT SEWER PATROL POINT (SPP 229A)

Project Description:

- Addition of a new flow prevention pipe
- Pipe will be downstream of the control gate
- The gate opens when there's capacity in the Scajaquada Tunnel or a risk of overflow

Estimated Cost: $2,283,000

Waterbody Impacted: Scajaquada Creek

TIMELINE ▼

Design Start Date
March 2022

April 2024
Design Completion Date

Required Construction Start Date
March 2025

July 2026
Required Construction End Date

Jefferson & Hedley-Blaine

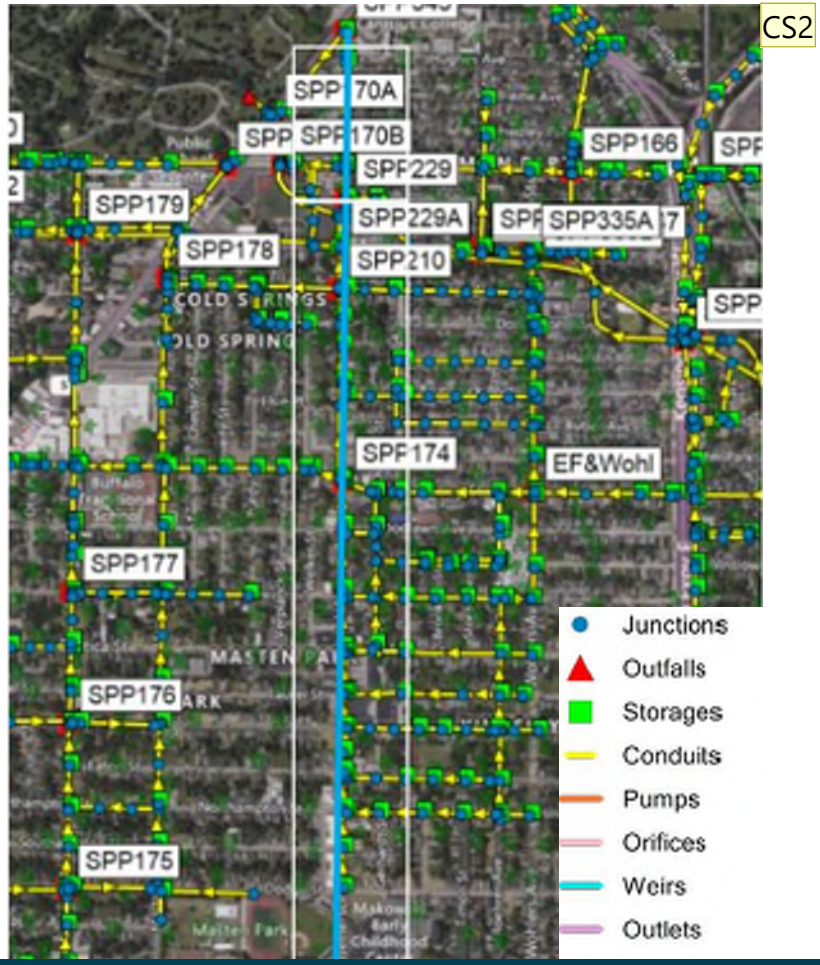
JEFFERSON AVE GREEN INFRASTRUCTURE PROJECT

Project Description:

- Permeable pavement to be installed
- Pavement installation location:
  - Parking lanes on Jefferson Avenue from Beverly Road to Best Street
- Project will manage 7.6 acres of impervious area upstream of Sewer Patrol Point SPP 229A

Estimated Cost: $1,520,000

Waterbody Impacted: Scajaquada Creek



TIMELINE ▼

Design Start Date
March 2022

November 2024
Design Completion Date

Construction Start Date
May 2025

June 2028
Construction End Date

Jefferson & Hedley-Blaine

JEFFERSON AVE GREEN INFRASTRUCTURE PROJECT

Project Description:

- Permeable pavement installed
- Pavement installation location:
  - In parking lanes on Jefferson Avenue from Main Street to Beverly Road
- Project manages 2.3 acres of impervious area upstream of Sewer Patrol Point SPP 333

Estimated Cost: $460,000

Waterbody Impacted: Scajaquada Creek

TIMELINE ▼

Design Start Date
March 2022

November 2024
Design Completion Date

CS3

Construction Start Date
May 2025

June 2028
Construction End Date

Colorado & Scajaquada

SEWER PATROL POINT (SPP 337)

Description:

– A new chamber and drop shaft connection to the Scajaquada Tunnel will be built to carry three times more flow to the tunnel

– The water barrier, or overflow weir, will also be raised AH2

– Survey start date: February 12th, 2024

Estimated Cost: $15,652,000

Waterbody Impacted: Scajaquada Creek

TIMELINE ▼

Design Start Date
March 2024

June 2026
Design Completion Date

Required Construction Start Date
December 2026

December 2028
Required Construction End Date

CS3

Humbolt & Lark

SEWER PATROL POINT (SPP 336B)

BF2

Project Description:

– Sewer Patrol Point 336B will be modified by removing the orifice plate, or flow restriction device

BF1

– Reduces combined sewer overflows

Estimated Cost: $60,000

Waterbody Impacted: Scajaquada Creek

TIMELINE ▼

Design Start Date
March 2024

December 2025
Design Completion Date

Required Construction Start Date
June 2026

December 2027
Required Construction End Date

AH3

Sidney & Lark

CS2

BF1

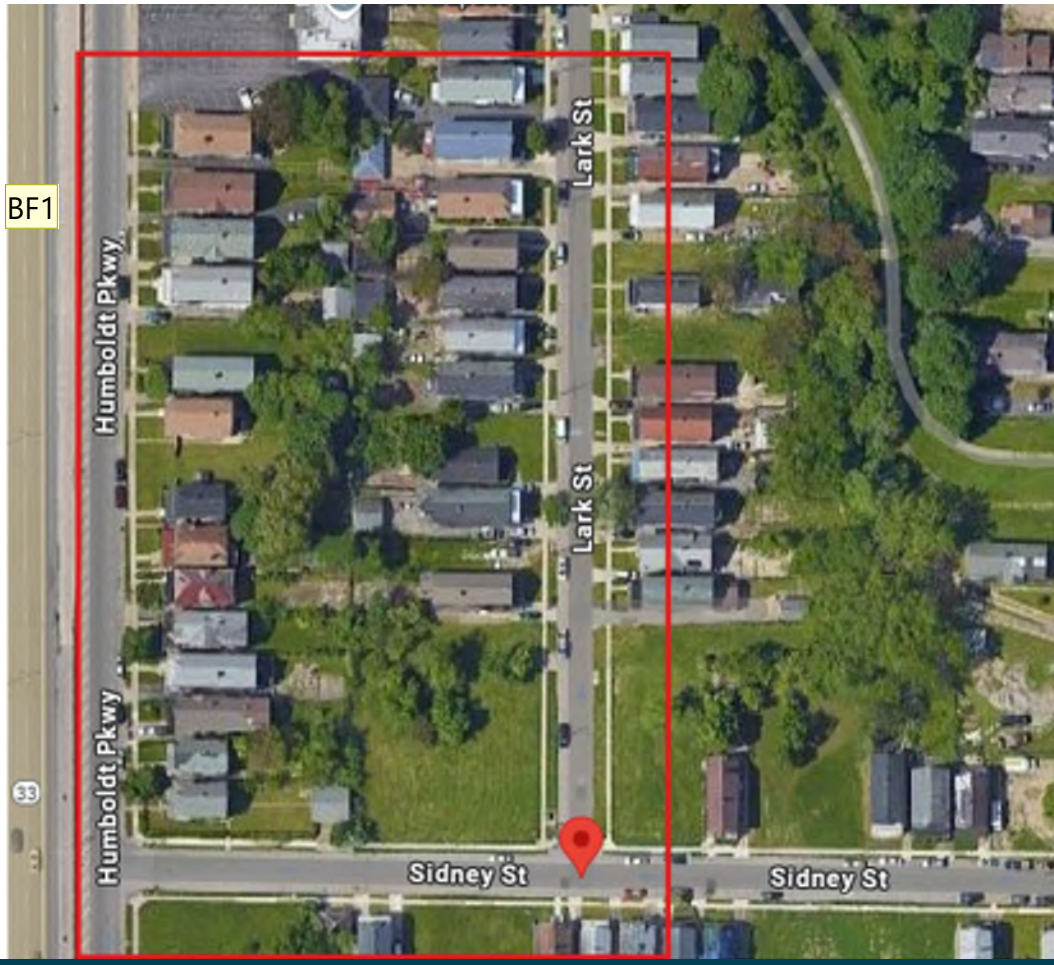
OFFLINE STORAGE (OLS)/ REAL TIME CONTROL (RTC)

Project Description:

- Corner of Sidney Street and Lark Street
- Dewater overflows via gravity to the Scajaquada Tunnel Interceptor
- Survey start date: February 12th, 2024

Estimated Cost: 44,620,000 (OLS) / 17,300,000 (RTC)

Waterbody Impacted: Scajaquada Creek



TIMELINE ▼

Design Start Date
March 2024

June 2027
Design Completion Date

Required Construction Start Date
December 2027

December 2032
Required Construction End Date

Humboldt & Delavan

SEWER PATROL POINT (SPP 165B)

Project Description:

– The underflow orifice will be replaced and upsized, along with the underflow pipe

– The overflow weir height to be raised

– Survey start date: February 12th, 2024

Estimated Cost: $4,263,900

Waterbody Impacted: Scajaquada Creek

TIMELINE ▼

Design Start Date
March 2024

December 2025
Design Completion Date

Actual Construction Start Date
June 2026

December 2027
Construction End Date

Frequency Asked Questions

Why is Buffalo Sewer doing these projects?

- Buffalo Sewer is working diligently to improve the City's existing sewer infrastructure in a cost-effective manner that will reduce combined sewer overflows (CSOs) impacting surface waters. This project will replace sewers that are over 100 years old and redirect them on a different path to the wastewater treatment plant. A water line on West Ave. will also be replaced, as well as any lead water services encountered.

Are there any community meetings or updates planned to keep the residents informed about the progress of construction?

- QCCW-specific community engagement began in May 2024, with updates via council district breakfasts, community events, and a Stakeholder Advisory Committee (SAC) of residents, business owners, organizations, and stakeholders.

What can I expect during construction?

- During construction, residents can expect to see equipment on the road and new traffic patterns in place, as listed and shown below: partial or full road closures, sidewalk closures, limited street parking, and possible detours.
- Temporary disruptions, such as noise and dust, will be minimized as much as possible.
- Sewage odors will NOT be present in homes but may be present outside.
- Residents may experience temporary sewer and water service interruptions for a few hours, with advance notifications provided.
- These interruptions will not last days. Buffalo Sewer will also address concerns about explosives, drilling, dust, and air pollution, and manage environmental hazards like asbestos and PCB-laden soils per best practices.

Frequency Asked Questions

How will construction affect traffic in the area?

- It is anticipated some roadways will be fully or partially closed during portions of the construction period. Traffic will be redirected or rerouted so you will be able to reach your destination. All traffic will be redirected based on the City of Buffalo guidelines.

How will construction impact local business and services?

- Construction won't impact local businesses, and detours will ensure emergency services can access all locations despite any road closures.

Wil there be changes to parking or public transportation during construction?

- Temporary changes to parking and public transportation may occur during construction, but services can access all locations despite any road closures.

How are the projects being funded?

- Buffalo Sewer will pay for the projects under the Queen City Clean Waters Initiative with a combination of New York State grant funds and low interest loans.

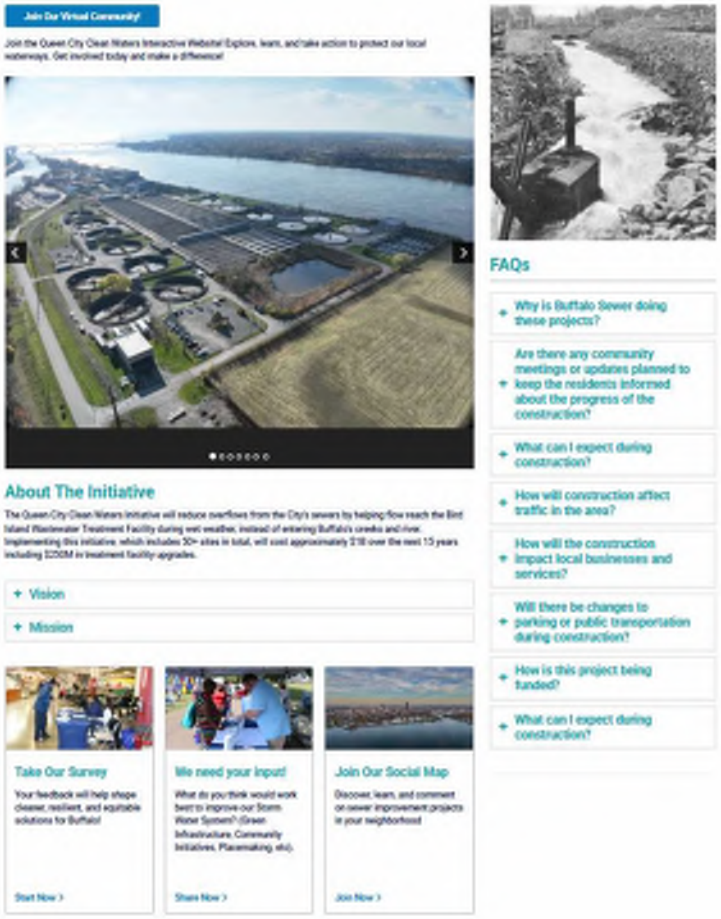
What can I expect during construction?

- Construction will be completed in sections (one block at a time) so that temporary disruptions in the neighborhood, such as noise and dust, will be minimized as much as possible. Sewage odors will NOT be present in homes, but may be present outside. During construction, residents can expect to see equipment in the road and new traffic patterns in place, as listed and shown below: partial or full roads closures, sidewalk closures, limited street parking, possible detours

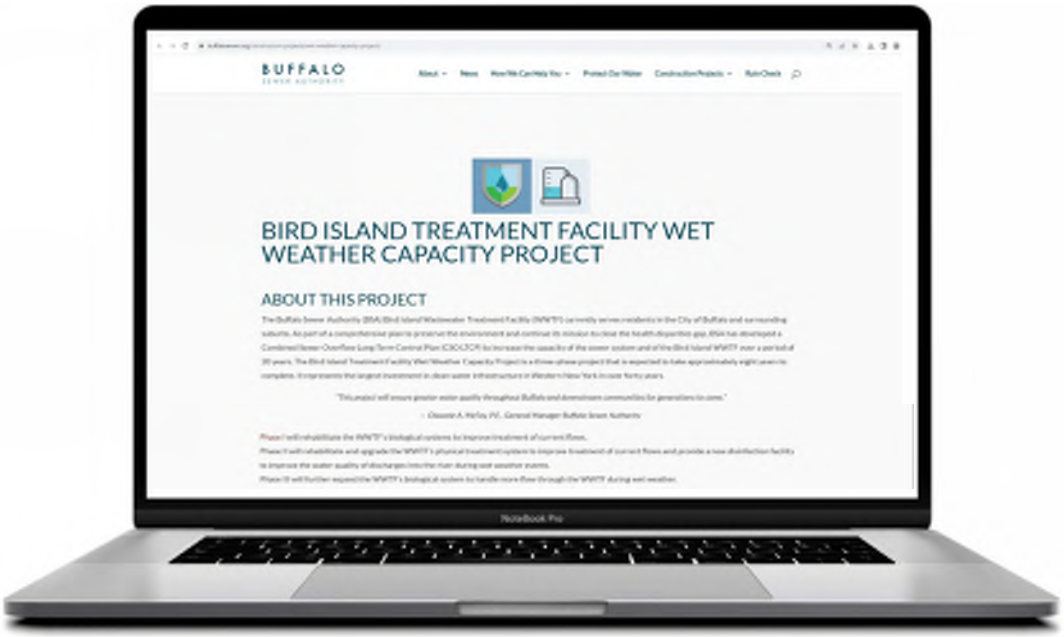
Opportunities to Stay Engaged

New! Queen City Clean Waters Interactive Website

BUFFALOQCCW.ORG



Buffalo Sewer Authority Website



buffalosewer.org

Your BEST source of information!

- Consultant, Contractor, and Supplier Opportunities
- Construction Updates
- FAQs
- Board Meeting Minutes
- Public Participation Plans

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Thank you!

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152 views Apr 29, 2025
Rosaleen Nogle from the Buffalo Sewer Authority joined Voices to discuss the Queen City Clean Waters Initiative.

Transcript

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FOR IMMEDIATE RELEASE
May 7, 2025

Contacts:
Rosaleen Nogle, PE, BCEE, BC WRE
716- 851-4664 Ext. 4203

BUFFALO SEWER AUTHORITY ADDS THREE BOARD MEMBERS

Herbert Bellamy Jr. remains Chair; Christopher Roosevelt remains Vice Chair

BUFFALO, NY – The Buffalo Sewer Authority (BSA) today announced at the May 7th BSA board meeting the addition of three board members: Thomas Caulfield, Ph.D. – former Buffalo Sewer administrator of capital improvements, Hope Young-Watkins – Buffalo Urban Renewal Agency senior director of programs, and Patrick Sole, Jr – former City of Buffalo director of permit and inspection services.

Herbert Bellamy Jr. will remain as board chair, and Christopher Roosevelt will remain as board vice chair. The three appointments bring the total number of board members to five, filling the remaining board vacancies. Former secretary Eleanor Petrucci retired from the board after over 20 years of service at the end of April.

"Our new board members will enhance our goals of delivering tangible, public health benefits to the city of Buffalo community as these individuals have backgrounds in community outreach, extensive knowledge of Buffalo neighborhoods, and in once instance previous experience with BSA," said Buffalo Sewer Authority Board Chairman Herbert Bellamy Jr. "I also want recognize the service of Eleanor Petrucci, who as a member of the board for the last 21 years was a strong voice for transformational projects and upgrades throughout our collection system, treatment plant, and neighborhoods."

Dr. Caulfield has over 30 years of professional experience in public administration and management. His extensive experience includes roles at both the Buffalo Municipal Housing Authority and the Buffalo Sewer Authority before his current role as a municipal operations consultant.

Hope Young-Watkins currently serves as the senior director of programs with the Buffalo Urban Renewal Agency. Prior to her current role, Ms. Young-Watkins was director of real estate for the City of Buffalo for over four years and has worked in real estate and economic development for over 30 years.

-more-

2-2-2-2

Patrick Sole, Jr., spent nearly 25 years with the City of Buffalo, a significant portion of which he served within the Department of Permits and Inspection Services, including as the department's director.

BSA board meetings are open to the public in person and virtually. A schedule of meetings can be found at: https://buffalosewer.org/about/transparency/board-meetings/.

"We look forward to working with the new board members in our continued efforts to reduce combined sewer overflows to clean our waterways through the long-term control plan and Queen City Clean Waters Initiative, continuing our 90-year mission of protecting the health and safety of our 550,000 customers across Buffalo and surrounding areas," said Rosaleen Nogle, PE, BCEE, BC WRE Principal Sanitary Engineer, Buffalo Sewer.

-30-

About the Buffalo Sewer Authority: Buffalo Sewer is a New York State public benefit corporation created in 1935 to "relieve the Niagara River, Buffalo River, and Lake Erie from pollution by the sewage and waste of the city and relieving city from inadequate sanitary and stormwater drainage and for the sanitary disposal or treatment of the sewage thereof." Buffalo Sewer may accept, treat and dispose of the sewage and waste of all municipal corporations in Erie County.

About the Queen City Clean Waters initiative: To safeguard public health and the environment while fostering strong community partnerships, creating meaningful workforce opportunities, and driving lasting economic impact for future generations in Buffalo.

FOR IMMEDIATE RELEASE
May 9, 2025

Contacts:
Earl Wells, e3comms.
716-553-5225
Philip Wells, e3comms.
716-512-3326

BUFFALO SEWER ANNOUNCES MEETING DATES FOR PUBLIC PARTICIPATION FORUMS

Forums to provide residents information about various projects associated with $1 billion Queen City Clean Waters initiative

BUFFALO, NY – The Buffalo Sewer Authority (BSA) is conducting public participation forms to provide residents information regarding various projects associated with the $1 billion Queen City Clean Waters initiative.

Meetings are taking place in council districts across the city on the following dates and times and locations:

- Lovejoy District Projects – Tuesday, May 13 from 6:00 p.m. until 8 p.m.at the Schiller Park Senior Center on 2057 Genesee Street.

- Fillmore District Projects – Wednesday, May 14, 2025 from 6:00 p.m. until 8 p.m. at Matt Urban Center on 1081 Broadway Street.

- Ellicott District Projects – Tuesday, May 20th from 6 p.m. until 8 p.m. at the Pratt Willert Community Center on 422 Pratt Street.

- Delaware District Projects – Tuesday, June 10th from 6 p.m. until 8 p.m. at Dashes Market on 1770 Hertel Street.

“The Public Participation Forums are essential in seeking feedback and input from community members on any adverse impacts, including environmental justice (EJ) impacts from projects, and how to ensure maximum community benefit,” said Rosaleen Nogle, PE, BCEE, BC WRE Principal Sanitary Engineer, Buffalo Sewer. “We encourage residents to attend, have dinner on us and ask any questions or raise any concerns they may have about the projects occurring in their neighborhoods.”

-more-

BUFFALO
SEWER AUTHORITY

UPCOMING WORK
IN THE
FILLMORE COMMON COUNCIL DISTRICT

Buffalo Sewer, through its Queen City Clean Waters projects, **is addressing stormwater challenges across the city.**

In **May 2025**, our team will be conducting soil investigations in your neighborhood by drilling small holes in the ground to gather essential data for these projects.

Here's what you need to know:

- **Location:** Our crews, identifiable by yellow vests and hard hats, will be working in the following areas:
  - **The grassy area at the East end of Conway Park, along Louisiana St., from Mackinaw St. to Republic St. intersections.**
- **Purpose:** To assess underground conditions for upcoming improvements.
- **Process:** We will drill small holes to collect soil and rock samples for testing. Once drilling is complete, the area will be restored. If monitoring wells are needed, they will be installed flush with the surface and securely capped.
- **Impact:** You might notice some noise during the work, but we will take precautions to minimize any inconvenience.

For more information please contact:
Rosaleen Nogle, Principal Sanitary Engineer
Buffalo Sewer Authority
rnogle@buffalosewer.org.
(716) 851-4664 Ext. 4203

BUFFALO SEWER AUTHORITY

Breckenridge Street CSO Control

ABOUT THE BRECKENRIDGE STREET COMBINED SEWER OVERFLOW (CSO) CONTROL PROJECT

Why is Buffalo Sewer doing this project?

- Buffalo Sewer is working diligently to improve the City's existing sewer infrastructure in a cost-effective manner that will reduce combined sewer overflows (CSOs) impacting local waterways.
- This project will replace and rehabilitate sewers that are over 100 years old and redirect them on a different path to the wastewater treatment plant, while reducing CSOs to the Black Rock Canal.

What is included in this project?

West Ave. *(from Breckenridge St. to Lafayette Ave.):*

- New combined sewer main
- Replace combined sewers on each side
- Reconnect house / building laterals
- New lead-free water main
- Replacement of any existing lead water services with new copper services
- New road pavement from curb to curb

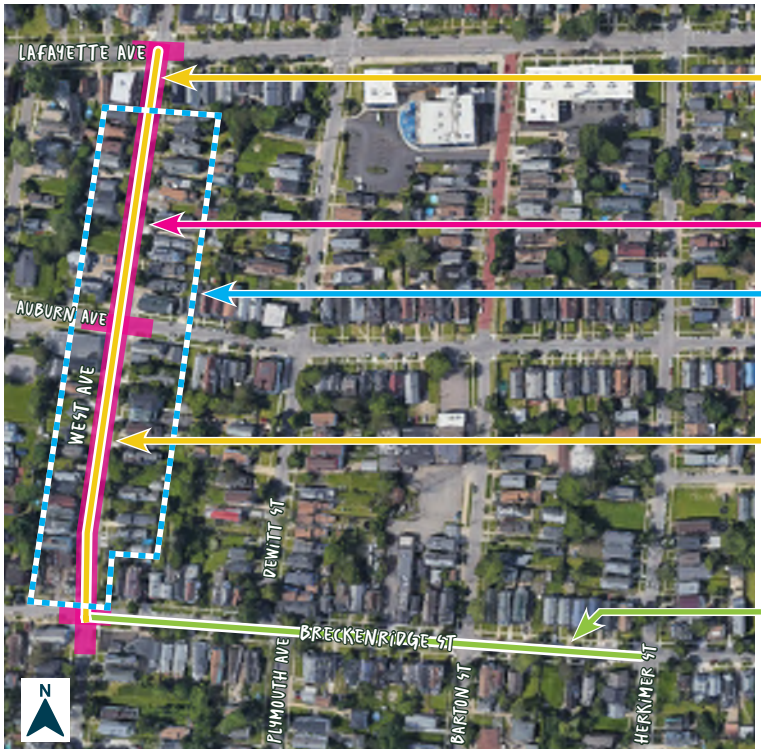
Breckenridge St. *(from West Ave. to Herkimer St.):*

- Lining and repair of the existing combined sewer

WHAT ARE THE BENEFITS?

- ☑ Reduce the Amount of Nutrients Flowing Into The Black Rock Canal During Storm Events and Improve Water Quality
- ☑ 8 Million Gallons of Combined Sewer Overflows Prevented to the Black Rock Canal in a Typical Year

PROJECT AREA



New Combined (Storm and Sanitary) Sewer in the center of **West Ave.** between **Lafayette Ave.** and **Breckenridge St.**, and a New Water Main

Limits of New Road Pavement

Reconnect Building Sewers and Replace Lead Water Services to Existing Building (both sides of **West Ave.**; approximate houses shown)

Replace Combined Sewer on Each Side of **West Ave.** between **Lafayette Ave.** and **Breckenridgedge St.**

Install a Liner in the Existing Sewer in the Center of **Breckenridge St.** between **West Ave.** and **Herkimer St.**

HOW WILL CONSTRUCTION IMPACT LOCAL BUSINESS AND SERVICES?

Construction won't impact local businesses, and detours will ensure that emergency services can access all locations despite any road closures.

WILL THERE BE CHANGES TO PARKING OF PUBLIC TRANSPORTATION DURING CONSTRUCTION?

Temporary changes to parking and public transportation may occur during construction, but services will continue with re-routed routes. Updates will be provided in advance.

TRAFFIC IMPACTS

During construction, residents can expect to see construction equipment in the road and new traffic patterns in place, including:

- Partial or full road closures
- Sidewalk closures
- Limited street parking
- Possible detours

The photos to the right show examples from previous Buffalo Sewer projects of what the traffic controls may look like.

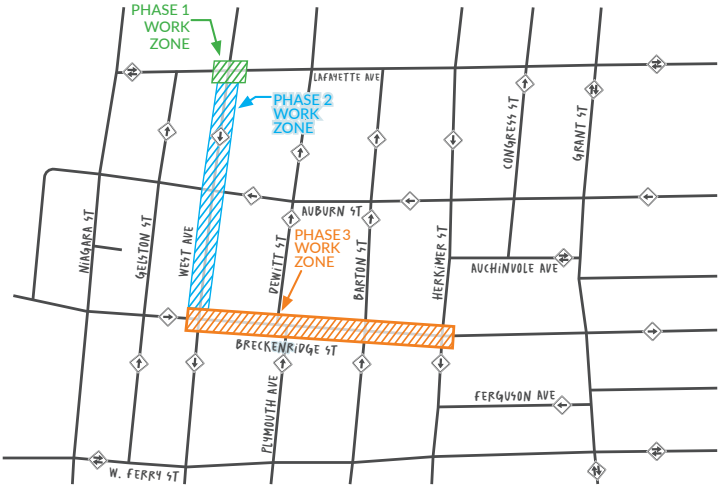
LAFAYETTE AVENUE AND WEST AVENUE CLOSURE DETOUR

When construction reaches the intersection of Lafayette Avenue and West Avenue, the intersection will need to be closed for several weeks for construction of a new chamber and drop shaft. A detour will be in place during this time, as shown below.

EXPECTED TIMELINES

Construction is scheduled to start in Spring 2026 and finish by the end of 2028. It is expected that construction will be completed in sections (generally one block at a time) as shown in the graphic below. **The phased approach will help minimize temporary disruptions in the neighborhood, such as noise and dust, as much as possible.**

Notices will be hand-delivered to residents at least one week before construction starts with more detailed information.



HOW WILL THIS WORK BE FUNDED?

Buffalo Sewer will pay for this project with low interest loans, and will seek New York State grant funds to supplement the project funding.

BUFFALO SEWER AUTHORITY

QUEEN CITY CLEAN WATERS

Scan the QR code for more information and schedule updates during construction.

CONTACT: 716.851.4664 QueenCityCleanWaters@buffalosewer.org www.buffalosewer.org

BUFFALO
SEWER AUTHORITY

UPCOMING WORK
IN THE
LOVEJOY COMMON COUNCIL DISTRICT

Buffalo Sewer through its Queen City Clean Waters program **is tackling stormwater challenges in Buffalo.**

This month, our team will be **conducting drilling boring** sites in your neighborhood for projects that are part of this ~~Plan~~.

Our crews will wear yellow vests and hardhats as they drill borings:

1. **In the grass area on the Southwest corner of Genesee St and Countess Ave, Northwest of the Schiller Park Senior Center.**

For more information please contact:
Rosaleen Nogle, Principal Sanitary Engineer
Buffalo Sewer Authority
rnogle@buffalosewer.org.
(716) 851-4664 Ext. 4203

BUFFALO
SEWER AUTHORITY

UPCOMING WORK
IN THE
MASTEN COMMON COUNCIL DISTRICT

Buffalo Sewer through its Queen City Clean Waters program **is tackling stormwater challenges in Buffalo.**

This month, our team will be **conducting drilling boring** sites in your neighborhood for projects that are part of this Plan.

Our crews will wear yellow vests and hardhats as they drill borings:

1. **At the Northeast corner of the Scajaquada St and Colorado St intersection. Borings are in the grass area along the east side of Colorado Ave.**
2. **Along the East side of Humboldt Pkwy, between Northland Ave and East Delavan Ave.**
    a. **One traffic lane on Humboldt Pkwy will be closed between Northland Ave and East Delavan Ave.**

For more information please contact:
Rosaleen Nogle, Principal Sanitary Engineer
Buffalo Sewer Authority
rnogle@buffalosewer.org.
(716) 851-4664 Ext. 4203

BUFFALO
SEWER AUTHORITY

UPCOMING WORK
IN THE
UNIVERSITY COMMON COUNCIL DISTRICT

Buffalo Sewer through its Queen City Clean Waters program **is tackling stormwater challenges in Buffalo.**

This month, our team will be **conducting drilling boring** sites in your neighborhood for projects that are part of this Plan.

Our crews will wear yellow vests and hardhats as they drill borings:

1. **Along the North, South, and West sides of the Charter School of Inquiry. All borings will be in the grass or lawn areas.**
2. **On the lawn east of the Roosevelt Park.**
3. **Between the street and sidewalk along Lark St.**
4. **Along the north side of the road on Sidney St.**
    a. **One traffic lane on Sidney St. will be closed between Lark St and Humboldt Pkwy for two weeks.**

For more information please contact:
Rosaleen Nogle, Principal Sanitary Engineer
Buffalo Sewer Authority
rnogle@buffalosewer.org.
(716) 851-4664 Ext. 4203

BUFFALO
SEWER AUTHORITY

UPCOMING WORK
IN THE
NIAGARA COMMON COUNCIL DISTRICT

Buffalo Sewer through its Queen City Clean Waters program **is tackling stormwater challenges in Buffalo.**

This month, our team will be **conducting drilling boring** sites in your neighborhood for projects that are part of this Plan.

Our crews will wear yellow vests and hardhats as they drill borings:

1. **In the grass area along the East side of West Ave from Breckenridge St to Lafayette Ave.**
2. **In the grass area along the South side of Breckenridge St from Dewitt St to Herkimer St.**

For more information please contact:
Rosaleen Nogle, Principal Sanitary Engineer
Buffalo Sewer Authority
rnogle@buffalosewer.org.
(716) 851-4664 Ext. 4203

BUFFALO SEWER AUTHORITY

QUEEN CITY CLEAN WATERS

Roosevelt Park Offline Storage Facility

ABOUT THE ROOSEVELT PARK OFFLINE STORAGE FACILITY

Why is Buffalo Sewer doing the Queen City Clean Waters initiative?

- Reduce the number and volume of Combined Sewer Overflows, also known as CSOs, during large wet weather events
- Help flow reach the Bird Island Wastewater Treatment Facility during Wet Weather during those wet weather events, instead of Buffalo's waterways.

The project is currently in the early design stage. Buffalo Sewer has evaluated several potential solutions and is advancing the design of:

Offline Storage (OLS):

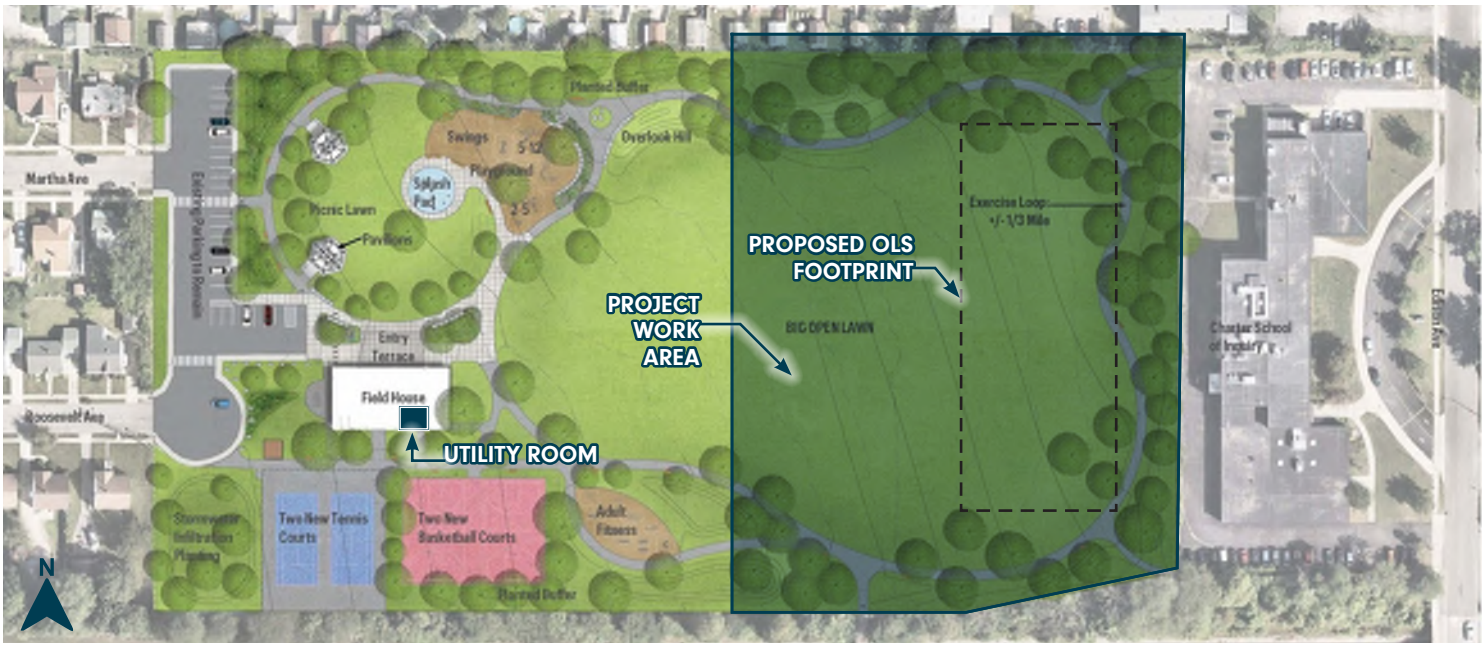
A tank designed to temporarily hold excess combined sewage when the sewer system is full. Once capacity becomes available at the Bird Island Wastewater Treatment Facility, the stored sewage would be gradually drained and treated. Community input is important, and there will be opportunities to share feedback and help shape the final design.

Buffalo Sewer is actively seeking community feedback to help shape the final design.

WHAT ARE THE BENEFITS?

- ☑ Reduce the amount of discharge flowing into the Scajaquada Creek during storm events and improve water quality
- ☑ 36 million gallons of combined sewer overflows diverted from the Scajaquada Creek in a typical year
- ☑ Reduce future flood events

PROJECT AREA



PROJECTED TIMELINE

Construction is estimated to start in Summer 2027 and finish by Summer 2033. Preconstruction surveys will be performed.

Temporary disruptions in the neighborhood, such as noise and dust, will be minimized as much as possible.

Future meetings will occur with further updates and opportunities for stakeholder feedback/questions.

HOW WILL THIS WORK BE FUNDED?

Buffalo Sewer will pay for this project with low interest loans and will seek New York State grant funds to supplement the project funding.

BUFFALO SEWER AUTHORITY
QUEEN CITY CLEAN WATERS

Roosevelt Park Offline Storage Facility

WHAT IS INCLUDED IN THIS PROJECT?

- New combined sewer infrastructure that diverts flow from and connects to the Scajaquada Tunnel.
- Installation of a concrete underground storage tank equipped with self-cleaning system and mechanical systems for flow control and monitoring.
- Opportunities for Charter School of Inquiry students to learn about and engage with the project.
- Landscaping, parking lot, and roadway improvements.
- Replacement of connected lead water services and reconnecting with new lead-free service line.
- Repair of sidewalks and curbs removal with replacement of sidewalks as necessary.
- Landscaping improvements and roadway repairs.

TRAFFIC IMPACTS

During construction, residents can expect to see construction equipment in the road and new traffic patterns in place, including:

- Partial or full road closures
- Sidewalk closures
- Limited street parking
- Possible detours

The photos to the right show examples from previous Buffalo Sewer projects of what the traffic controls may look like.

MORE INFORMATION

Scan the QR code for more information and schedule updates during construction.

BUFFALO 90 YEARS 1935-2025 SEWER AUTHORITY

QueenCityCleanWaters@buffalosewer.org
www.buffalosewer.org

City Hall Room 1038
65 Niagara Square
Buffalo, NY 14202

716-851-4664

2-2-2-2

The forums will include presentations, a demonstration of the interactive QCCW website (http://buffaloqccw.org/), a question and answer session with staff members of the Buffalo Sewer Authority, design team, Queen City Clean Waters stakeholder advisory committee members and other project stakeholders and opportunities to provide feedback.

The initiative will include infrastructure enhancements at 50+ sites across the city, including ongoing upgrades at the Bird Island Wastewater Treatment Facility which will total over $250 million. The 50+ planned projects will reduce combined sewer overflows to Western New York waterways including the Niagara River, Scajaquada Creek, Erie Basin Marina, Black Rock Canal, Cazenovia Creek, and the Buffalo River, improving water quality for the people of the City of Buffalo, visitors, and downstream communities.

-30-

About the Buffalo Sewer Authority: Buffalo Sewer is a New York State public benefit corporation created in 1935 to "relieve the Niagara River, Buffalo River, and Lake Erie from pollution by the sewage and waste of the city and relieving city from inadequate sanitary and stormwater drainage and for the sanitary disposal or treatment of the sewage thereof." Buffalo Sewer may accept, treat and dispose of the sewage and waste of all municipal corporations in Erie County.

About the Queen City Clean Waters initiative: To safeguard public health and the environment while fostering strong community partnerships, creating meaningful workforce opportunities, and driving lasting economic impact for future generations in Buffalo.

BUFFALO SEWER AUTHORITY

QUEEN CITY CLEAN WATERS

SOUTH DISTRICT PROJECTS

PUBLIC PARTICIPATION FORUM

To learn more about the upcoming projects in the University District

WHEN:
Thursday, April 17, 2025
6:00 - 8:00 PM EST

WHERE:
Buffalo Irish Center
245 Abbott Rd
Buffalo, NY 14220

Dinner will be served. Translation and American Sign Language services will be provided.

ZOOM MEETING:
Saturday, July 12, 2025
10:00 AM - 12:00 PM EST

Please scan the QR code to register for the virtual Public Participation Session, to be held in July 2025.

WHY IS BUFFALO SEWER DOING THE QUEEN CITY CLEAN WATERS INITIATIVE?

- Reduce the number and volume of Combined Sewer Overflows, also known as CSOs, during large wet weather events, and
- Improve the water quality in the Niagara River, Scajaquada Creek, Black Rock Canal, and other local waters.

HOW DOES QUEEN CITY CLEAN WATERS BENEFIT ME?

The projects will support the overall health of the community and protect our environment by:

- Reducing pollution entering our waterways and
- Reducing future flooding events.

It also includes community betterment initiatives, like:

- New sewer and lead-free water pipes, and
- Community partnership and Workforce development opportunities.

SOUTH DISTRICT AREA PROJECTS

Kelly 'F' Pump Station Rehabilitation
Construction: Fall 2025 - Summer 2026

South Buffalo Pump Station Upgrades
Construction Phase I: Spring 2026 - Fall 2028

Hopkins & Osage Offline Storage
Construction: Summer 2034 - Fall 2039

BUFFALO 90 YEARS 1935-2025 SEWER AUTHORITY

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www.buffalosewer.org

City Hall Room 1038
65 Niagara Square
Buffalo, NY 14202

716-851-4664

BUFFALO SEWER AUTHORITY
QUEEN CITY CLEAN WATERS

UNIVERSITY DISTRICT PROJECTS

PUBLIC PARTICIPATION FORUM

To learn more about the upcoming projects in the University District

WHEN:
Thursday, April 24, 2025
6:00 - 8:00 PM EST

WHERE:
Gerard Place
2515 Bailey Ave
Buffalo, NY 14215

Dinner will be served. Translation and American Sign Language services will be provided.

ZOOM MEETING:
Saturday, July 12, 2025
10:00 AM - 12:00 PM EST

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UNIVERSITY DISTRICT AREA PROJECTS

Bailey & Minnesota SPP254 Modification
Construction: Summer 2024 (Completed)

Amherst & Bailey Real Time Control
Construction: July 2024 - November 2025

Edison & Martha Offline Storage
Construction: Spring 2027 - Spring 2033

BUFFALO 90 YEARS 1935-2025 SEWER AUTHORITY

QueenCityCleanWaters@buffalosewer.org
www.buffalosewer.org

City Hall Room 1038
65 Niagara Square
Buffalo, NY 14202

716-851-4664

BUFFALO SEWER AUTHORITY

QUEEN CITY CLEAN WATERS

MASTEN DISTRICT PROJECTS

PUBLIC PARTICIPATION FORUM

To learn more about the upcoming projects in the University District

WHEN:
Monday, April 28, 2025
6:00 - 8:00 PM EST

WHERE:
Northland Workforce Training Center
683 Northland Ave
Buffalo, NY 14211

Dinner will be served. Translation and American Sign Language services will be provided.

ZOOM MEETING:
Saturday, July 12, 2025
10:00 AM - 12:00 PM EST

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WHY IS BUFFALO SEWER DOING THE QUEEN CITY CLEAN WATERS INITIATIVE?

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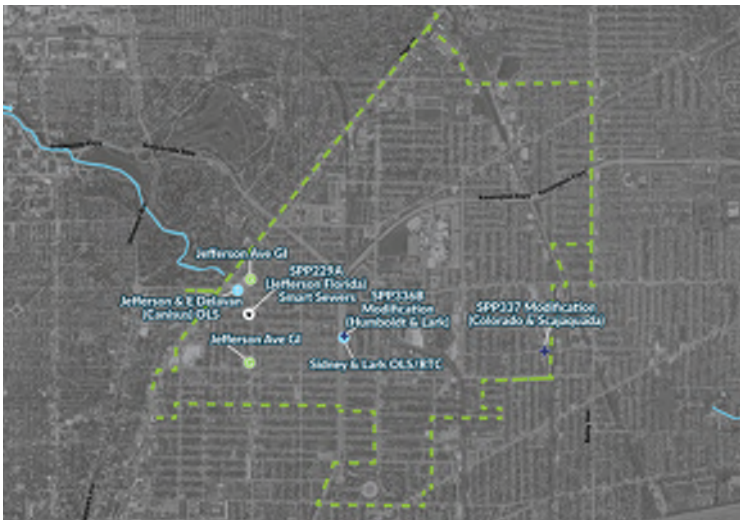
MASTEN DISTRICT AREA PROJECTS



Jefferson Ave Green Infrastructure
Construction: Spring 2025 – Spring 2028

SPP337 Modification (Colorado & Scajaquada)
Construction: Winter 2026 – Winter 2028

SPP 336B Modification (Humboldt & Lark)
Construction: Summer 2026 – Winter 2027

SPP229A (Jefferson & Florida) Smart Sewers
Construction: Spring 2025 – Summer 2026

Sidney & Lark Offline Storage/Real Time Control
Construction: Winter 2027 - Winter 2032

Jefferson & E Delavan (Canisus) Offline Storage
Construction: Fall 2026 – Spring 2032

BUFFALO 90 YEARS 1935-2025 SEWER AUTHORITY

QueenCityCleanWaters@buffalosewer.org
www.buffalosewer.org

City Hall Room 1038
65 Niagara Square
Buffalo, NY 14202

716-851-4664

BUFFALO SEWER AUTHORITY
QUEEN CITY CLEAN WATERS

LOVEJOY DISTRICT PROJECTS

PUBLIC PARTICIPATION FORUM

WHERE:
Schiller Park Senior Center
2057 Genesee St.
Buffalo, NY 14211

WHEN:
Tuesday, May 13, 2025
6:00 - 8:00 PM EST

WHAT:
To learn more about the upcoming projects in the Lovejoy District

Dinner will be served. Translation and American Sign Language services will be provided.

WHY:
Buffalo Sewer is planning $1 Billion in sewer projects over the next 15 years to reduce wet weather discharges of sewage and improve our community.

ZOOM MEETING:
Saturday, July 12, 2025
10:00 AM - 12:00 PM EST

Please scan the QR code to register for the virtual Public Participation Session, to be held in July 2025.

BUFFALO 90 YEARS 1935-2025 SEWER AUTHORITY

QueenCityCleanWaters@buffalosewer.org
www.buffalosewer.org

City Hall Room 1038
65 Niagara Square
Buffalo, NY 14202

716-851-4664

BUFFALO SEWER AUTHORITY
QUEEN CITY CLEAN WATERS

FILLMORE DISTRICT PROJECTS

PUBLIC PARTICIPATION FORUM

WHERE:
Matt Urban Human Services Center
1081 Broadway
Buffalo, NY 14212

WHEN:
Wednesday, May 14, 2025
6:00 - 8:00 PM EST

WHAT:
To learn more about the upcoming projects in the Fillmore District

Dinner will be served. Translation and American Sign Language services will be provided.

WHY:
Buffalo Sewer is planning $1 Billion in sewer projects over the next 15 years to reduce wet weather discharges of sewage and improve our community.

ZOOM MEETING:
Saturday, July 12, 2025
10:00 AM - 12:00 PM EST

Please scan the QR code to register for the virtual Public Participation Session, to be held in July 2025.

BUFFALO 90 YEARS 1935-2025 SEWER AUTHORITY

QueenCityCleanWaters@buffalosewer.org
www.buffalosewer.org

City Hall Room 1038
65 Niagara Square
Buffalo, NY 14202

716-851-4664

BUFFALO SEWER AUTHORITY
QUEEN CITY CLEAN WATERS

NIAGARA DISTRICT PROJECTS

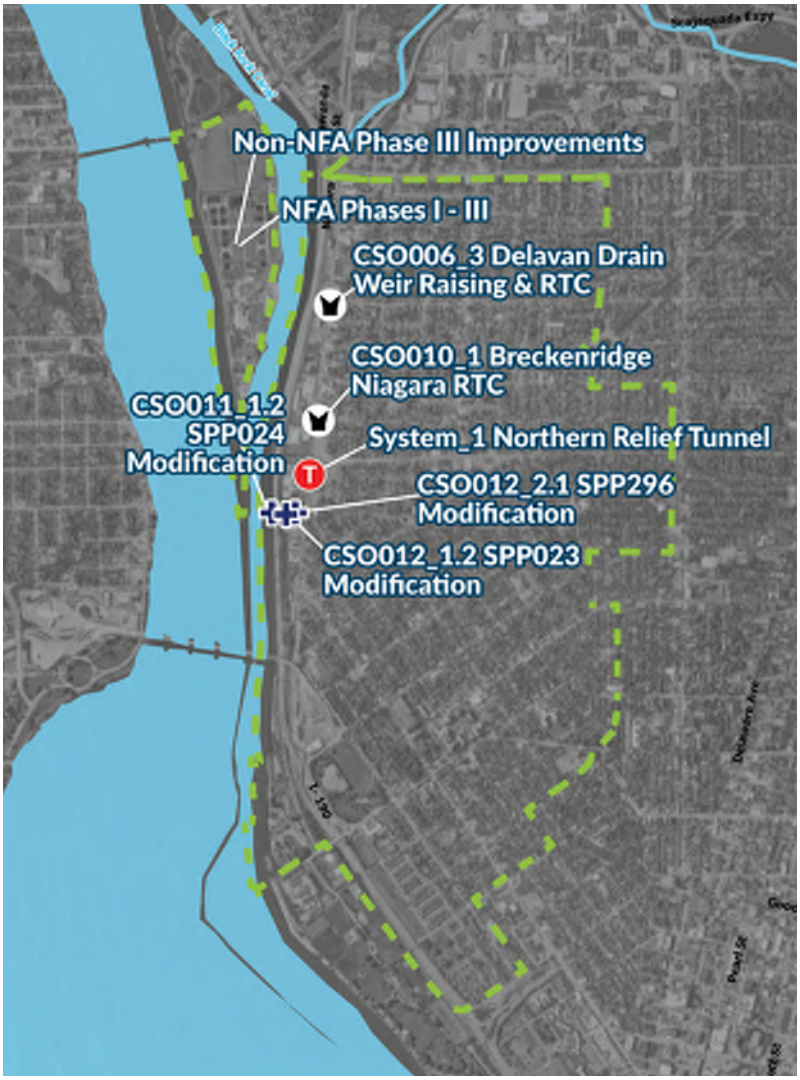
PUBLIC PARTICIPATION FORUM

WHERE:
The Belle Center
104 Maryland St.
Buffalo, NY 14201

WHEN:
Thursday, June 12, 2025
6:00 - 8:00 PM EST

WHAT:
To learn more about the upcoming projects in the Niagara District

Dinner will be served. Translation and American Sign Language services will be provided.



WHY:
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Saturday, July 12, 2025
10:00 AM - 12:00 PM EST

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BUFFALO 90 YEARS 1935-2025 SEWER AUTHORITY

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www.buffalosewer.org

City Hall Room 1038
65 Niagara Square
Buffalo, NY 14202

716-851-4664

BUFFALO SEWER AUTHORITY

QUEEN CITY CLEAN WATERS

Queen City Clean Waters Program

Projects in the Ellicott Planning Neighborhood

WHAT IS QUEEN CITY CLEAN WATERS?

This initiative will reduce overflows from the City's sewers by helping flow reach the Bird Island Wastewater Treatment Facility during wet weather, instead of entering Buffalo's creeks and river. The implementation of this project, which includes 50+ sites in total, will cost approximately $1B over the next 15 years including $250M in treatment facility upgrades.

WHY IS THIS WORK BEING DONE?

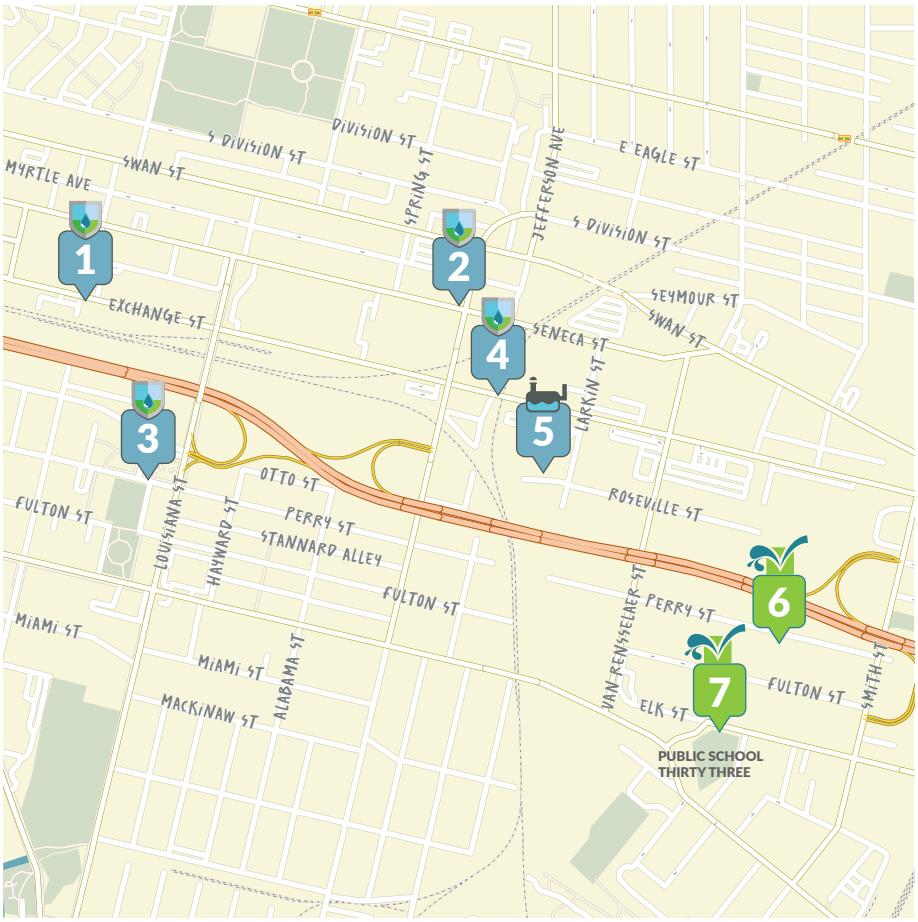
Hundreds of millions of gallons of storm water mixed with sanitary sewage overflows to the waterways of Western New York during rainfall and snow melt periods each year. Queen City Clean Waters will reduce these events.

HOW WILL CONSTRUCTION IMPACT LOCAL BUSINESS AND SERVICES?

Construction won't impact local businesses, and detours will ensure that emergency services can access all locations despite any road closures.

UPCOMING PROJECTS IN THE ELLICOTT PLANNING NEIGHBORHOOD:

1. **SPP 051 Modifications**
   (Construction: Spring 2031 - Fall 2032)
2. **SPP 059 Modifications**
   (Construction: Spring 2031 - Fall 2032)
3. **Perry Street Sewer Improvements**
   (Construction: Spring 2036 - Spring 2038)
4. **SPP 054 Sewer Separation**
   (Construction: Spring 2036 - Spring 2038)
5. **Bass Alley Off-line Storage**
   (Construction: Spring 2036 - Spring 2039)
6. **Perry Street Green Infrastructure**
   (Construction: Spring 2026 - Spring 2028)
7. **P.S. 33/Elk Street Green Infrastructure**
   (Construction: Spring 2026 - Spring 2028)



BUFFALO SEWER AUTHORITY

CONTACT:

716-851-4664
QueenCityCleanWaters@buffalosewer.org
www.buffalosewer.org

Scan the QR code for more information and schedule updates during construction.

BUFFALO SEWER AUTHORITY

QUEEN CITY CLEAN WATERS

Queen City Clean Waters Initiative

Projects in the Seneca Babcock Planning Neighborhood

WHAT IS QUEEN CITY CLEAN WATERS?

This initiative will reduce overflows from the City's sewers by helping flow reach the Bird Island Wastewater Treatment Facility during wet weather, instead of entering Buffalo's creeks and river. The implementation of this project, which includes 50+ sites in total, will cost approximately $1B over the next 15 years including $250M in treatment facility upgrades.

WHY IS THIS WORK BEING DONE?

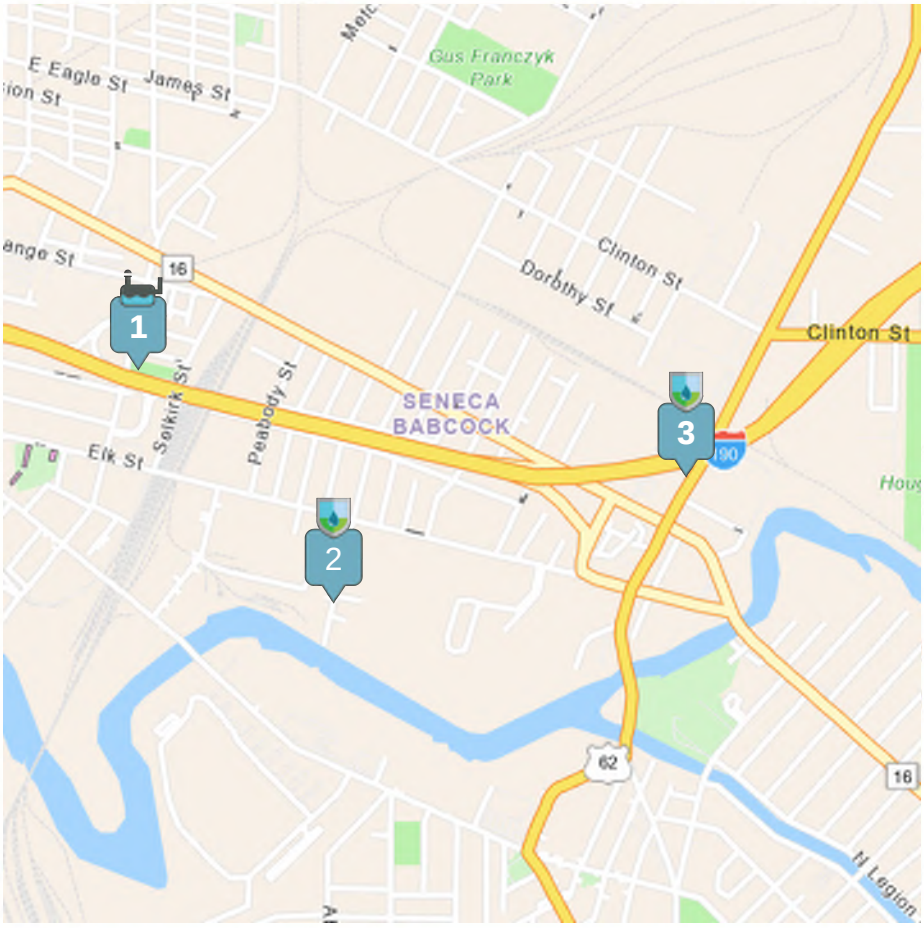
Hundreds of millions of gallons of storm water mixed with sanitary sewage overflows to the waterways of Western New York during rainfall and snow melt periods each year. Queen City Clean Waters will reduce these events.

HOW WILL CONSTRUCTION IMPACT LOCAL BUSINESS AND SERVICES?

Construction won't impact local businesses, and detours will ensure that emergency services can access all locations despite any road closures.

UPCOMING PROJECTS IN THE SENECA BABCOCK PLANNING NEIGHBORHOOD:

1. **Collins Park Off-Line Storage**
   (Construction: Summer 2030 - Winter 2035)
2. **SPP 97 Modification**
   (Construction: Summer 2031 – Summer 2033)
3. **SPP 104 Modification**
   (Construction: Summer 2031 - Winter 2032)



BUFFALO SEWER AUTHORITY

CONTACT:
716-851-4664
QueenCityCleanWaters@buffalosewer.org
buffalosewer.org or buffaloqccw.org

Scan the QR code for more information and schedule updates during construction.

BUFFALO SEWER AUTHORITY

QUEEN CITY CLEAN WATERS

Queen City Clean Waters Initiative

Projects in the Fillmore-Leroy Planning Neighborhood

WHAT IS QUEEN CITY CLEAN WATERS?

This initiative will reduce overflows from the City's sewers by helping flow reach the Bird Island Wastewater Treatment Facility during wet weather, instead of entering Buffalo's creeks and river. The implementation of this project, which includes 50+ sites in total, will cost approximately $1B over the next 15 years including $250M in treatment facility upgrades.

WHY IS THIS WORK BEING DONE?

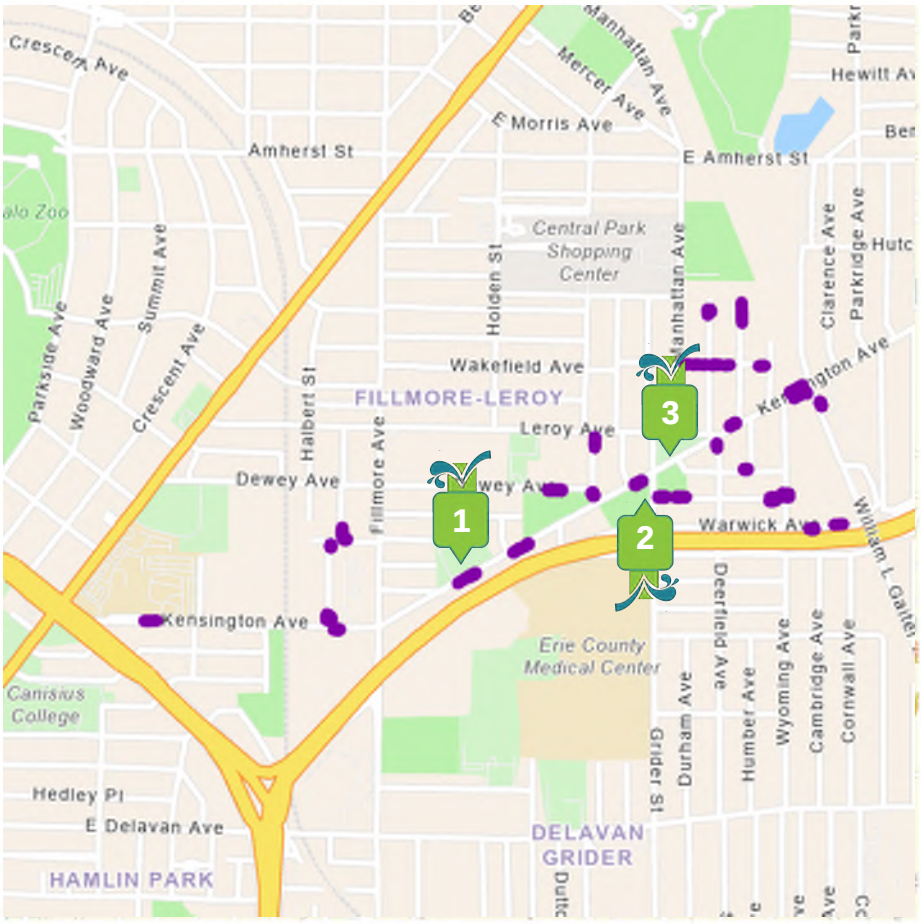
Hundreds of millions of gallons of storm water mixed with sanitary sewage overflows to the waterways of Western New York during rainfall and snow melt periods each year. Queen City Clean Waters will reduce these events.

HOW WILL CONSTRUCTION IMPACT LOCAL BUSINESS AND SERVICES?

Construction won't impact local businesses, and detours will ensure that emergency services can access all locations despite any road closures.

UPCOMING PROJECTS IN THE FILLMORE-LEROY PLANNING NEIGHBORHOOD:

1. **Burgard High School Rain Gardens**
   (Construction: Spring 2026 – Spring 2028)
2. **Kensington Ave Stormwater Planters**
   (Construction: Spring 2026 – Spring 2028)
3. **Arthur O. Eve School Porous Asphalt and Rain Garden**
   (Construction: Spring 2026 - Spring 2028)
4. **Assorted Stormwater Tree Trenches**
   (Construction: Spring 2026 – Spring 2028)
   Represented by small purple boxes:



BUFFALO SEWER AUTHORITY

CONTACT:

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buffalosewer.org or buffaloqccw.org

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BUFFALO SEWER AUTHORITY

QUEEN CITY CLEAN WATERS

Queen City Clean Waters Initiative

Projects in the Kenfield Planning Neighborhood

WHAT IS QUEEN CITY CLEAN WATERS?

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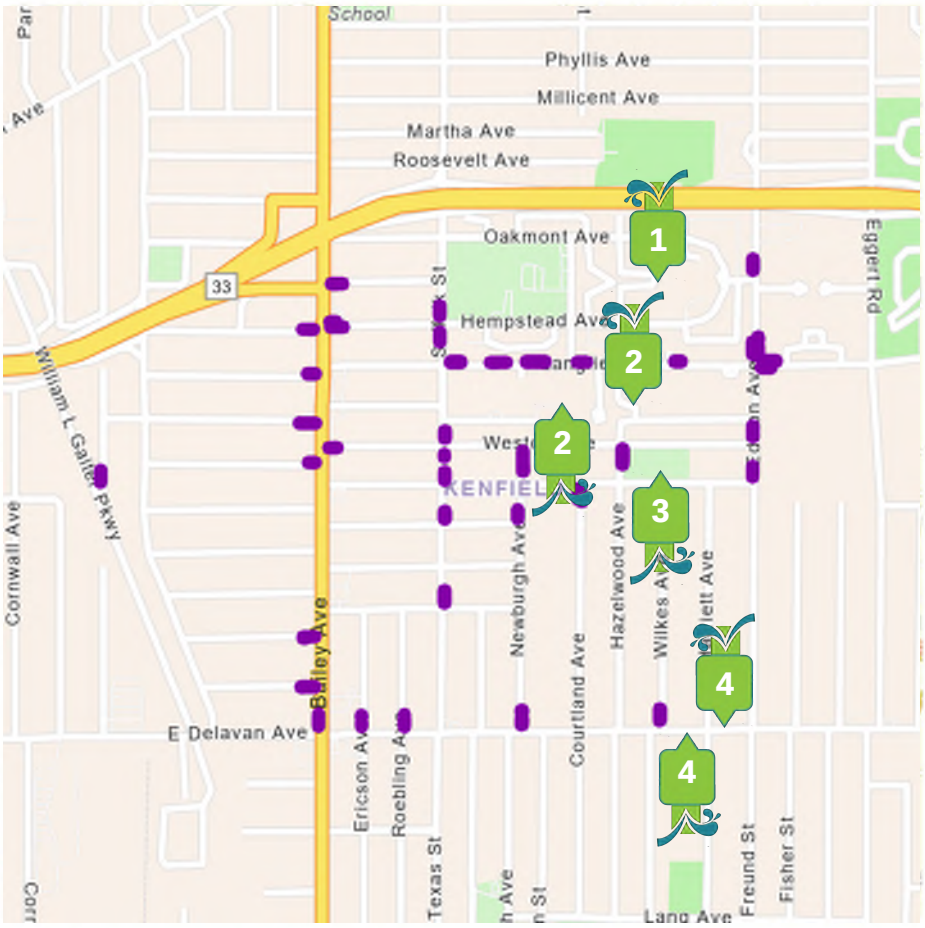
HOW WILL CONSTRUCTION IMPACT LOCAL BUSINESS AND SERVICES?

Construction won't impact local businesses, and detours will ensure that emergency services can access all locations despite any road closures.

UPCOMING PROJECTS IN THE KENFIELD PLANNING NEIGHBORHOOD:

1. **Buffalo Municipal Housing Authority Porous Asphalt and Roof Leader Disconnection**
   (Construction: Spring 2026 – Spring 2028)
2. **Pavement Removal Near Tower Street South of Langfield Drive**
   (Construction: Spring 2026 – Spring 2028)
3. **Ronald Peoples School of Scholars Rain Gardens and Porous Asphalt**
   (Construction: Spring 2026 – Spring 2028)
4. **E Delavan Ave Buffalo Public School Porous Asphalt**
   (Construction: Spring 2026 - Spring 2028)
5. **Assorted Stormwater Tree Trenches**
   (Construction: Spring 2026 – Spring 2028)
   Represented by small purple boxes:



BUFFALO SEWER AUTHORITY

CONTACT:

716-851-4664
QueenCityCleanWaters@buffalosewer.org
buffalosewer.org or buffaloqccw.org

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BUFFALO SEWER AUTHORITY

QUEEN CITY CLEAN WATERS

Queen City Clean Waters Initiative

Projects in the Kenfield Planning Neighborhood

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4. **E Delavan Ave Buffalo Public School Porous Asphalt**
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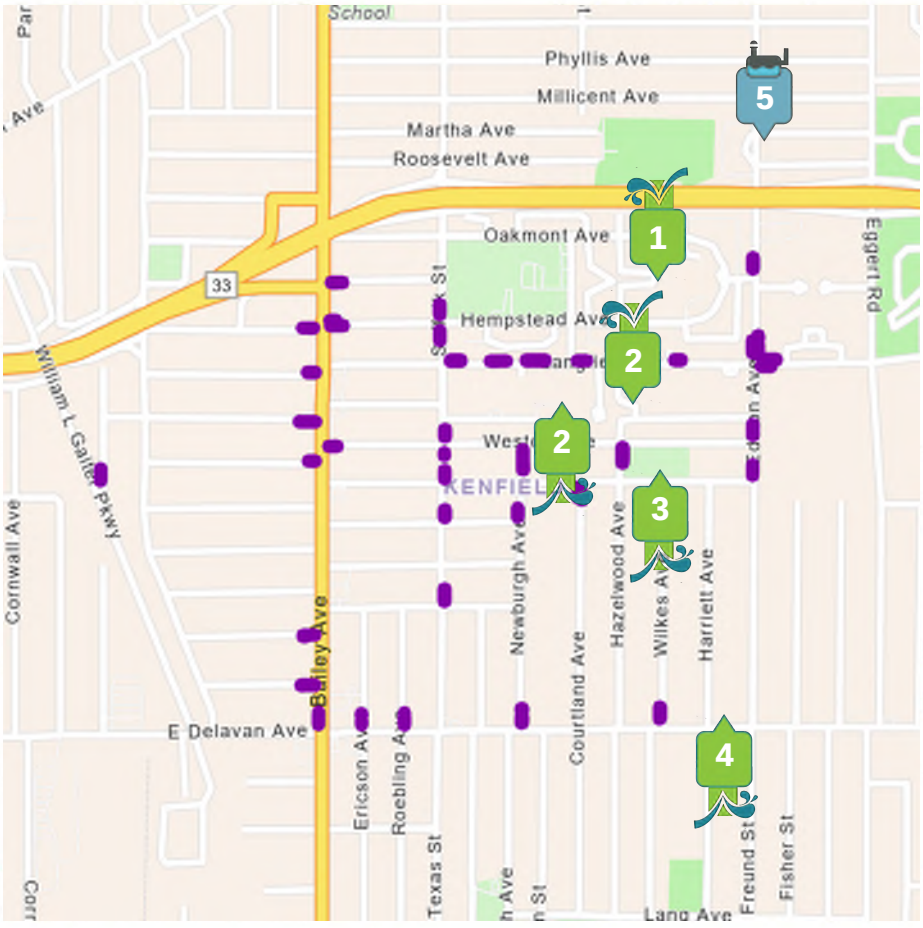
5. **Edison Martha Off-Line Storage**
   (Construction: Summer 2027 – Summer 2033)
6. **Assorted Stormwater Tree Trenches**
   (Construction: Spring 2026 – Spring 2028)
   Represented by small purple boxes:



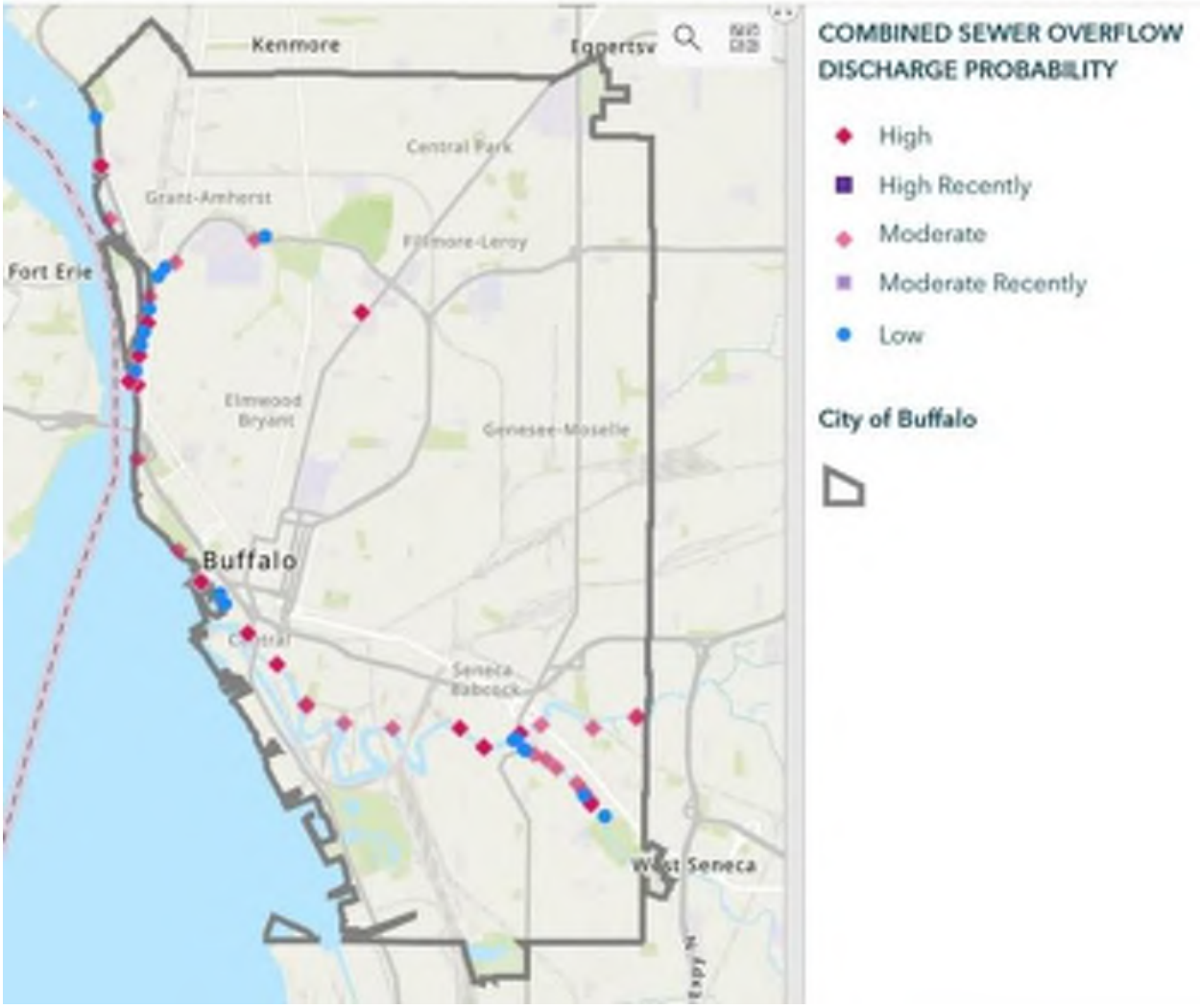
BUFFALO SEWER AUTHORITY

CONTACT:
716-851-4664
QueenCityCleanWaters@buffalosewer.org
buffalosewer.org or buffaloqccw.org

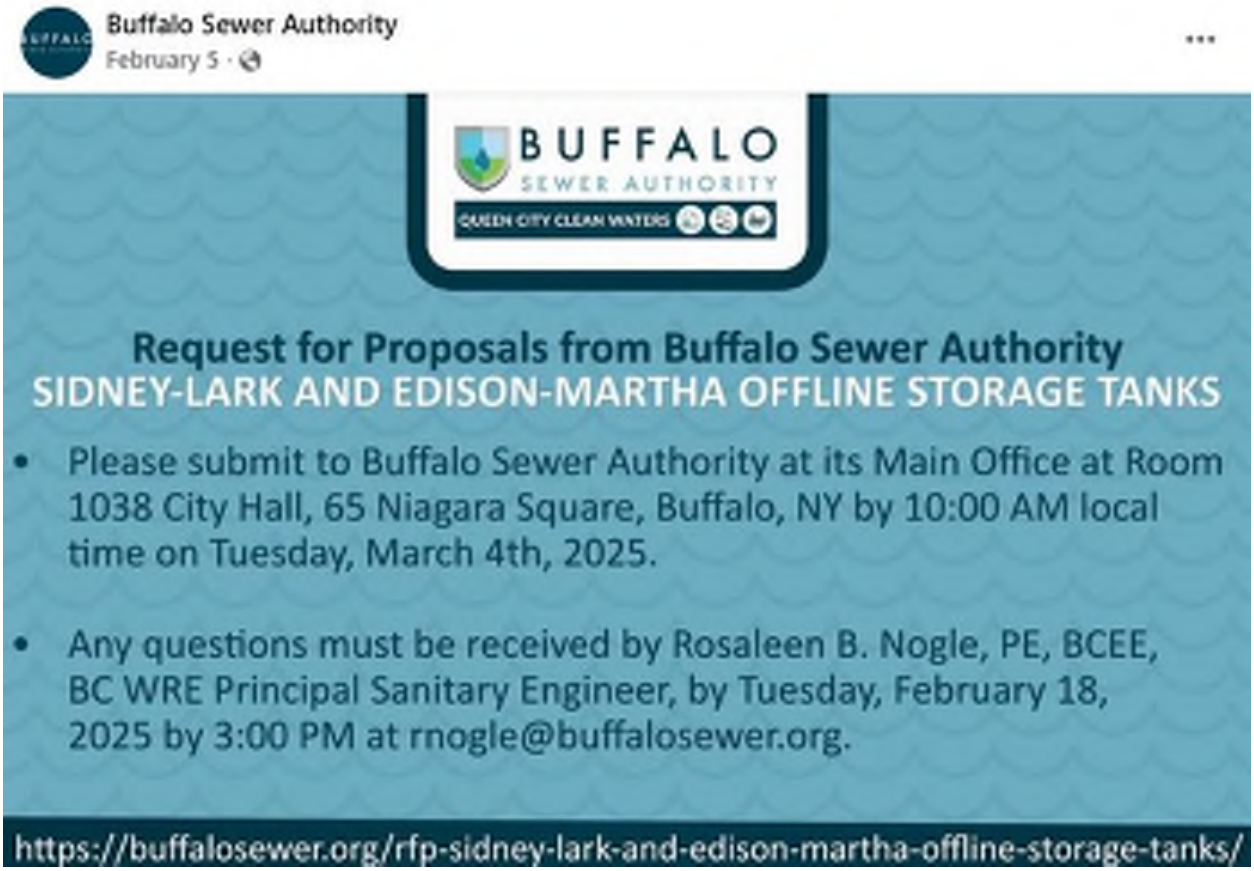
Scan the QR code for more information and schedule updates during construction.

Buffalo Sewer Authority
January 31 ·

Buffalo Sewer is proud to present the Combined Sewer Overflow Probability Status Map. Click the link in our Bio and select 'Combined Sewer Overflow Probability Map' to learn more!

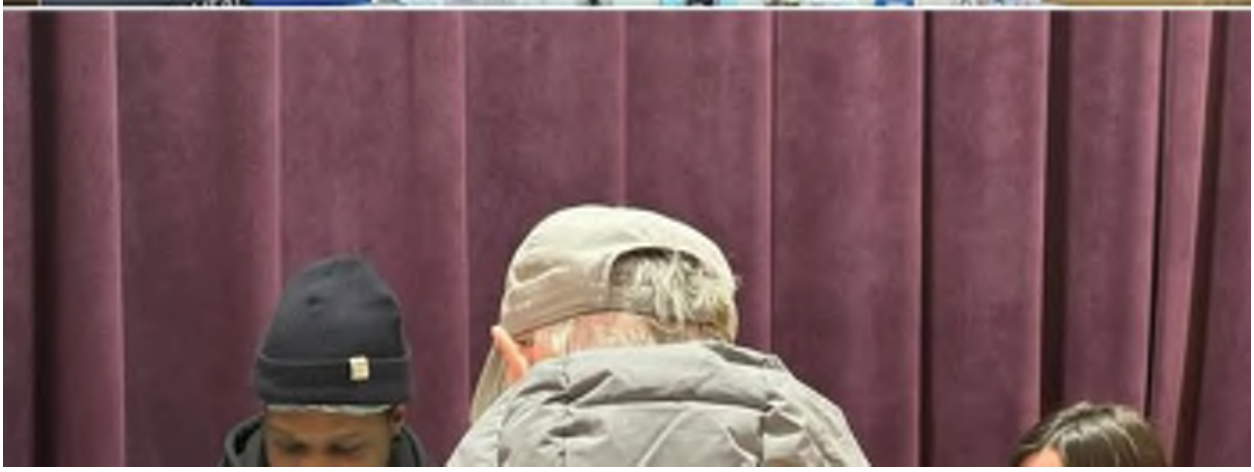


Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority Facebook Posts


Buffalo Sewer Authority
February 5 ·
BUFFALO
SEWER AUTHORITY
QUEEN CITY CLEAN WATERS
Request for Proposals from Buffalo Sewer Authority
SIDNEY-LARK AND EDISON-MARTHA OFFLINE STORAGE TANKS
• Please submit to Buffalo Sewer Authority at its Main Office at Room 1038 City Hall, 65 Niagara Square, Buffalo, NY by 10:00 AM local time on Tuesday, March 4th, 2025.
• Any questions must be received by Rosaleen B. Nogle, PE, BCEE, BC WRE Principal Sanitary Engineer, by Tuesday, February 18, 2025 by 3:00 PM at rnogle@buffalosewer.org.
https://buffalosewer.org/rfp-sidney-lark-and-edison-martha-offline-storage-tanks/

Buffalo Sewer Authority
February 8 ·

On Thursday Kristen Suto and Darell Johnson from our Outreach Team were on hand at the NFTA's Bailey Rapid Transit open house at Gerard Place where we talked with community members about our Queen City Clean Water projects. We will be at the same event this morning at the Boys and Girls Club at 2061 Bailey Avenue. Please stop by and say hello!!



Buffalo Sewer Authority
February 9 ·

Yesterday Chuck Riley, Perry Pope and Edwin Geter from our Outreach Team tabled at the University Stakeholders Breakfast at the Martha Mitchell Community Center where we spoke about discounts on sewer rent, water bill's and Homeserve coverage and talked with community members about our Queen City Clean Water projects.

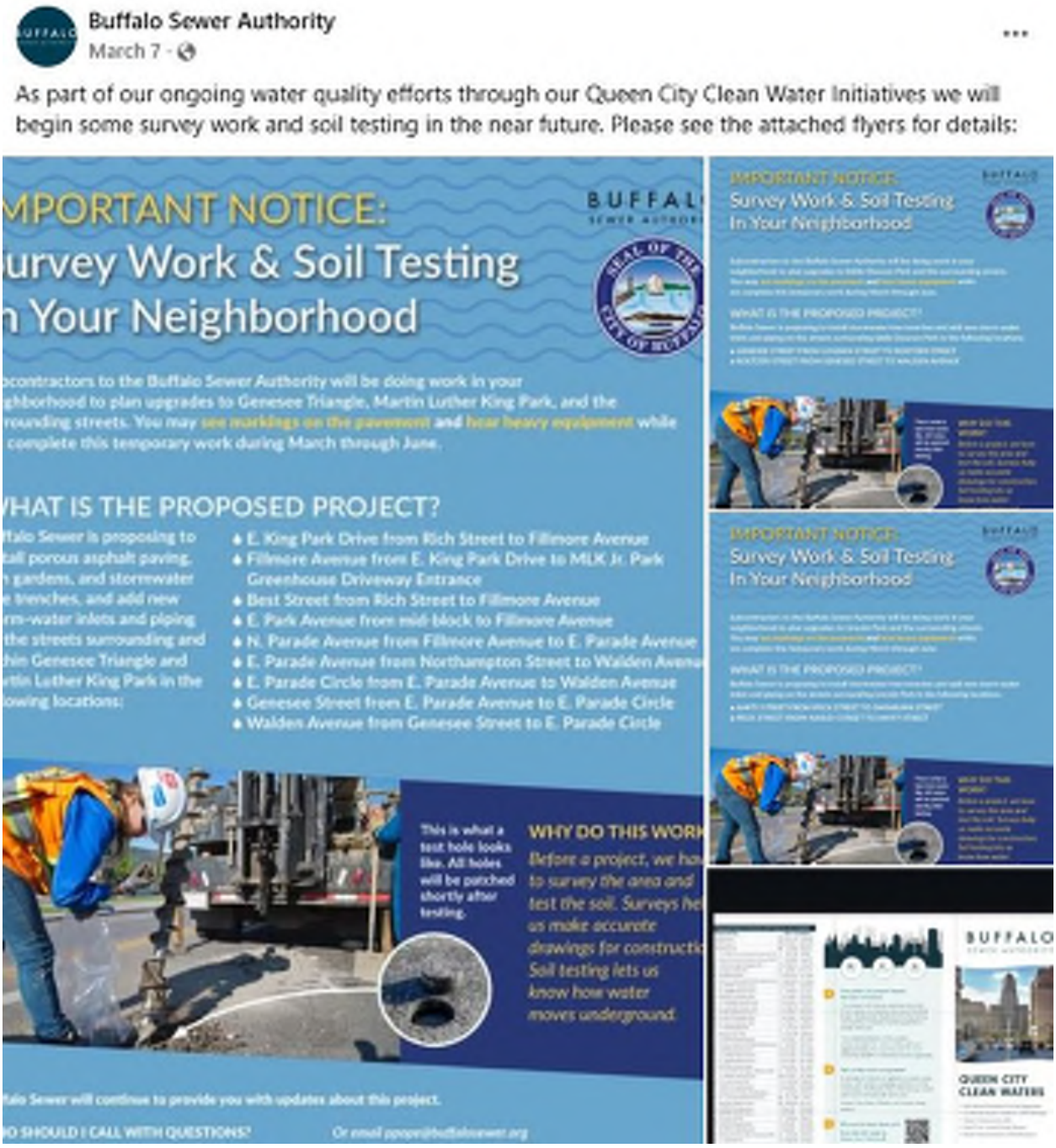
Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority Facebook Posts

Buffalo Sewer Authority
February 10
BUFFALO
SEWER AUTHORITY
QUEEN CITY CLEAN WATERS
Invitation to Bid from Buffalo Sewer Authority
BRECKENRIDGE COMBINED SEWER OVERFLOW CONTROL PROJECT
Project will replace 100 year old sewer pipes
• Sealed bid submissions must be received by Buffalo Sewer Authority at its Main Office at Room 1038 City Hall, 65 Niagara Square, Buffalo, NY no later than Thursday, March 6th, 2025, at 11:00 am ET.
• Any questions must be received by Walt Walker, by Wednesday, February 26th, 2025 by 5:00 PM at walt.walker@tylin.com
https://buffalosewer.org/breckenridge-street-cso-control-project-bid-advsertisement/

Buffalo Sewer Authority
February 11 ·

This weekend Jaleel Harris and Justin Black from our Outreach Team were on hand at the NFTA Bailey Rapid Transit (BRT) public meeting where Justin and Jaleel educated attendees with regards to our Queen City Clean Water program, and the importance of Fats Oils and Grease (FOG) management in the home.

If you are interested in the BRT project, there is a virtual open house this Thursday. For more information, please see the attached flyer.



Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority Facebook Posts

Buffalo Sewer Authority
March 11 ·

On Saturday Kaitlin Walsh and Traserra Adams from our Outreach Team were on hand at School 80's Saturday Academy where we talked with community members about our Queen City Clean Water projects.

Buffalo Sewer Authority
March 12 ·

On Saturday Justin Black and Darrell Johnson from our Outreach Team were tabling at School 93's Saturday Academy where we talked with community members about our Queen City Clean Water projects.

Buffalo Sewer Authority
March 19 ·

On Saturday Perry Pope and Katie Walsh from our Outreach Team were back at another Saturday Academy this time at Riverside High School where they connected with community members and talked about our Queen City Clean Water projects.

Buffalo Sewer Authority
April 1 ·

Tifft Street between South Park and Hopkins will be temporarily closed to facilitate important sewer repairs. We appreciate your patience as we work to improve essential infrastructure and keep our systems running smoothly for everyone.

Buffalo Sewer Authority
April 1 ·

We understand road closures are frustrating — but they pave the way (literally!) for better infrastructure. Thank you for your patience as we make necessary improvements to our sewer and water systems to better serve our community.

Buffalo Sewer Authority
April 2 ·

Please be advised that Barnard Street from Clinton Street to Griswold Street will be closed today and tomorrow from 8am to 3pm each day for sewer work.
The street will not be passable during this time.
Please use caution in the area and reroute as needed.

Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority Facebook Posts

Buffalo Sewer Authority
April 7 ·

This past Saturday, our Outreach Team's Edwin Jeter and Jaleel Harris visited School 99 – Makowski for another great Saturday Academy. They had the opportunity to connect with community members and share updates about our Queen City Clean Water projects.

Buffalo Sewer Authority
April 8 ·

🎉 Today marks 90 years of the Buffalo Sewer Authority proudly serving our community! Since 1935, BSA has been dedicated to protecting the waterways of Buffalo and the surrounding region—keeping our Great Lakes clean, our infrastructure strong, and our city safe. 💧⚙️
From its beginnings as a response to public health and environmental needs, to today's cutting-edge wastewater treatment and green infrastructure, BSA continues to evolve while staying true to its mission.
Here's to 90 years of service, stewardship, and sustainability—and to the future we're building together! 🌊💙
#BuffaloSewerAuthority #BuffaloSewer90

Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority Facebook Posts

Buffalo Sewer Authority
April 9 ·

Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority Facebook Posts

Buffalo Sewer Authority
April 9 ·

Attachment C to the Semi-Annual Status Report: September 2025
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Buffalo Sewer Authority
April 9 ·

Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority Facebook Posts

Buffalo Sewer Authority
April 11 ·

West Tupper Street from Elmwood to Delaware will be closed for the day today, 4-11-25, until 4pm for Sewer work

Buffalo Sewer Authority
April 16 ·

Buffalo Sewer Authority today celebrated the 90th Anniversary of our founding with Mayor Scanlon (@mayorchrisscanlon), Councilmember Everhart (@councilwomaneverhart)and members of our stakeholder advisory committees, Board Chairman, and staff as we broke ground on the first phase of a $100 million investment in the Jefferson-Delavan neighborhood

Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority Facebook Posts

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Public Outreach Materials: Buffalo Sewer Authority Facebook Posts

Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority Facebook Posts

Buffalo Sewer Authority's post

Buffalo Sewer Authority
April 22 ·

🌎 Happy Earth Day from Buffalo Sewer Authority!
We're celebrating by giving back to our community and protecting the environment we all share. Join us this Saturday, April 26th, as BSA participates in two neighborhood cleanup events:
Masten District Cleanup 📍 Canisius University Student Center, 81 Hughes Ave 🕙 10:00 AM – 2:00 PM 🍽️ Panel Luncheon to follow from 2:00 – 4:00 PM
International Schools Block Club Cleanup 📍 Meet at the corner of Baynes & Auburn 🕑 2:00 – 4:00 PM
Cleaning up debris before it can enter our system and helping to keep our waterways clean (like we do everyday). All are welcome—let's work together to keep Buffalo beautiful! 💧🌳 #EarthDay

Buffalo Sewer Authority
May 2 ·

Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority Facebook Posts

Buffalo Sewer Authority
May 2 ·

Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority Facebook Posts

Buffalo Sewer Authority
May 9 ·

Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority Facebook Posts

Buffalo Sewer Authority
May 9 ·

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Buffalo Sewer Authority
May 9 ·

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Public Outreach Materials: Buffalo Sewer Authority Facebook Posts

Buffalo Sewer Authority
May 9 ·

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Buffalo Sewer Authority
May 9 ·

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Buffalo Sewer Authority
May 9 ·

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Public Outreach Materials: Buffalo Sewer Authority Facebook Posts

Buffalo Sewer Authority
May 9 ·

Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority Facebook Posts

Buffalo Sewer Authority
May 20 -

Join us for our Ellicott District Public Participation Forum tonight from 6–8 PM at the Pratt Willet Community Center (422 Pratt St.).
Learn about upcoming sewer projects aimed at improving water quality in your neighborhood. I translation, and ASL services will be provided.

Can't make it in person? Register for our virtual session on Saturday, July 12 from 10 AM–12 PM scanning the QR code on the flyer.

#BuffaloSewer #ellicottdistrict

Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority Facebook Posts

Buffalo Sewer Authority
May 28 ·

Join us for a Public Participation Forum on upcoming sewer improvement projects in the Delaware District!

📍 Dash's Market, 1770 Hertel Ave
📅 Tuesday, June 10 | 🕕 6–8 PM

Learn how Buffalo Sewer is investing $1 Billion over 15 years to reduce sewage overflows and improve water quality. Dinner, translation, and ASL services provided.

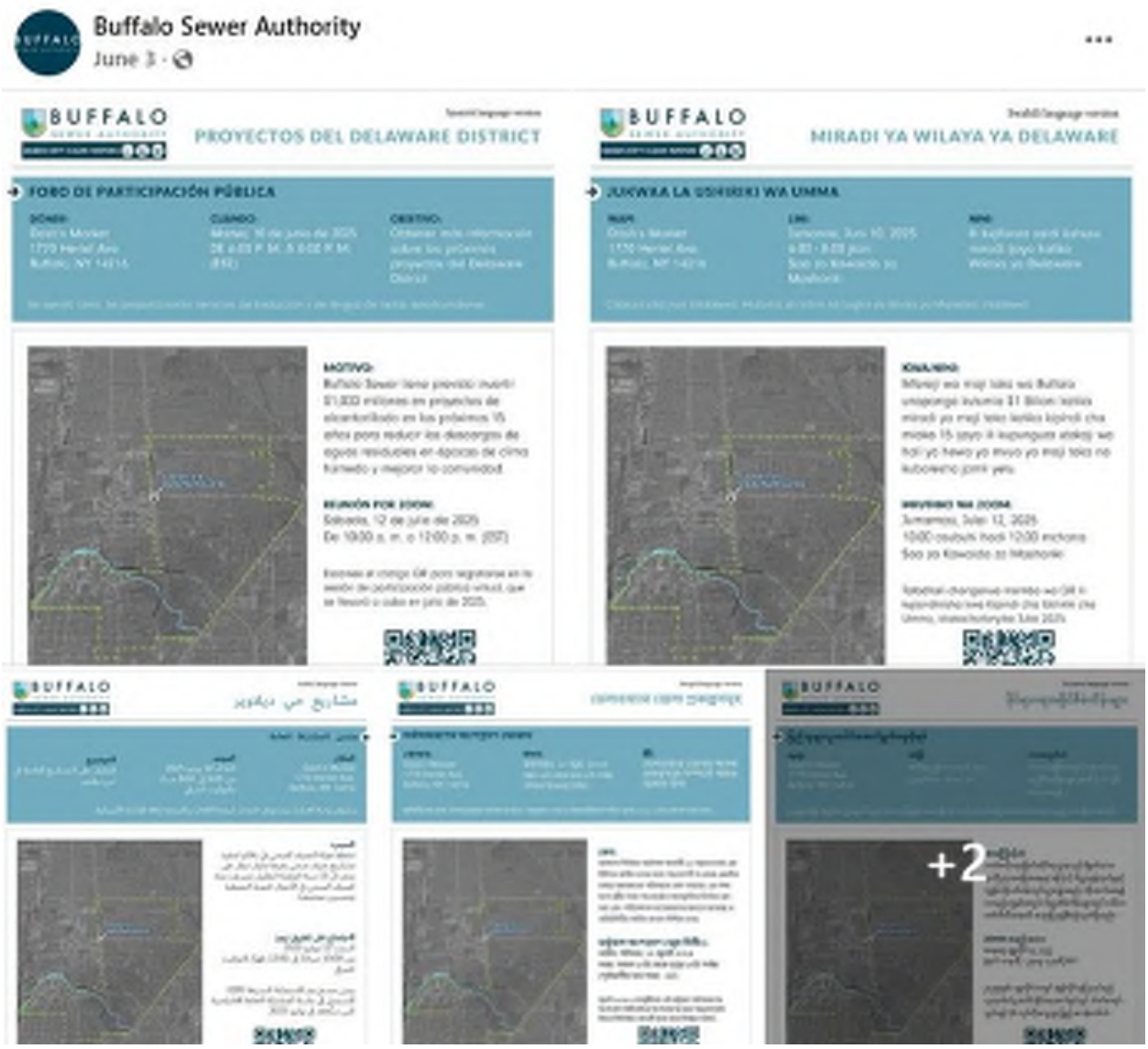
Buffalo Sewer Authority
June 2 ·

📣 Join us for the North District Public Participation Forum!

Buffalo Sewer will be hosting an in-person forum on Tuesday, June 17 from 6–8 PM at the Northwest Buffalo Community Center (155 Lawn Ave) to share details on upcoming sewer projects in the North District.

💬 Learn how we're investing $1 billion over the next 15 years to improve water quality and reduce sewage overflows.

🍽️ Dinner will be served. ASL and translation services provided.



Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority Facebook Posts

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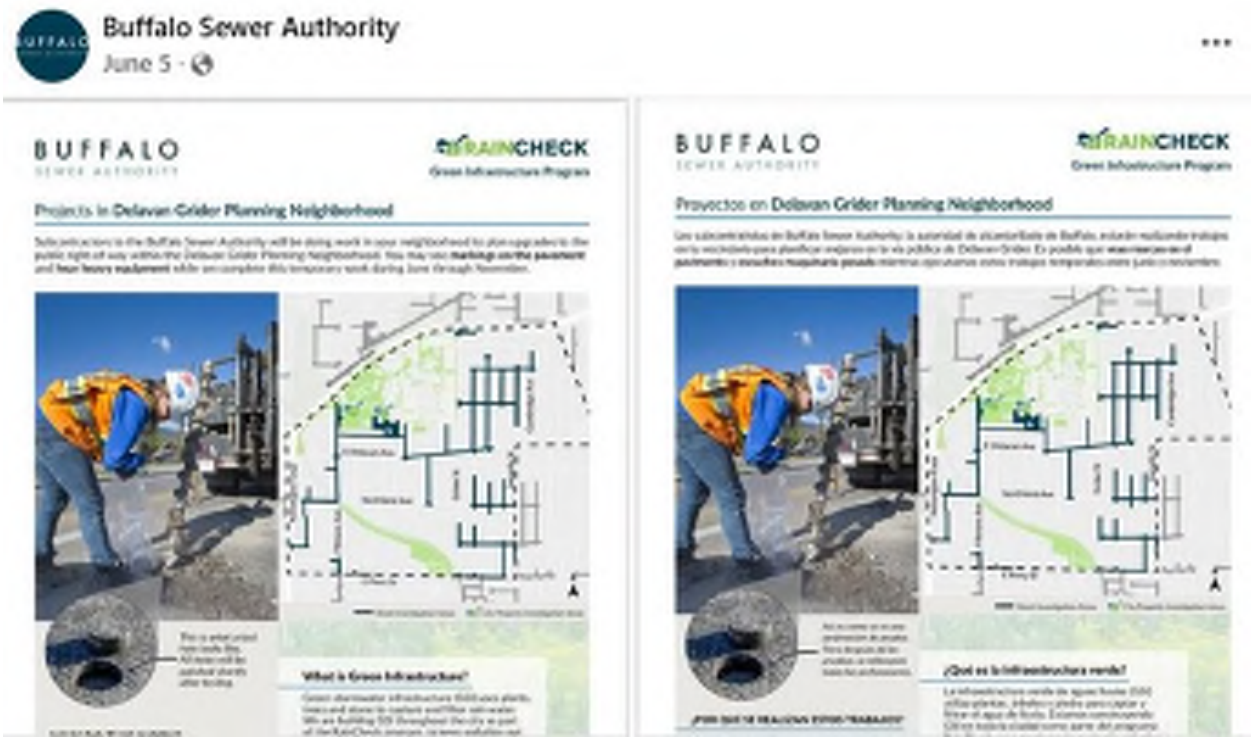

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Public Outreach Materials: Buffalo Sewer Authority Facebook Posts

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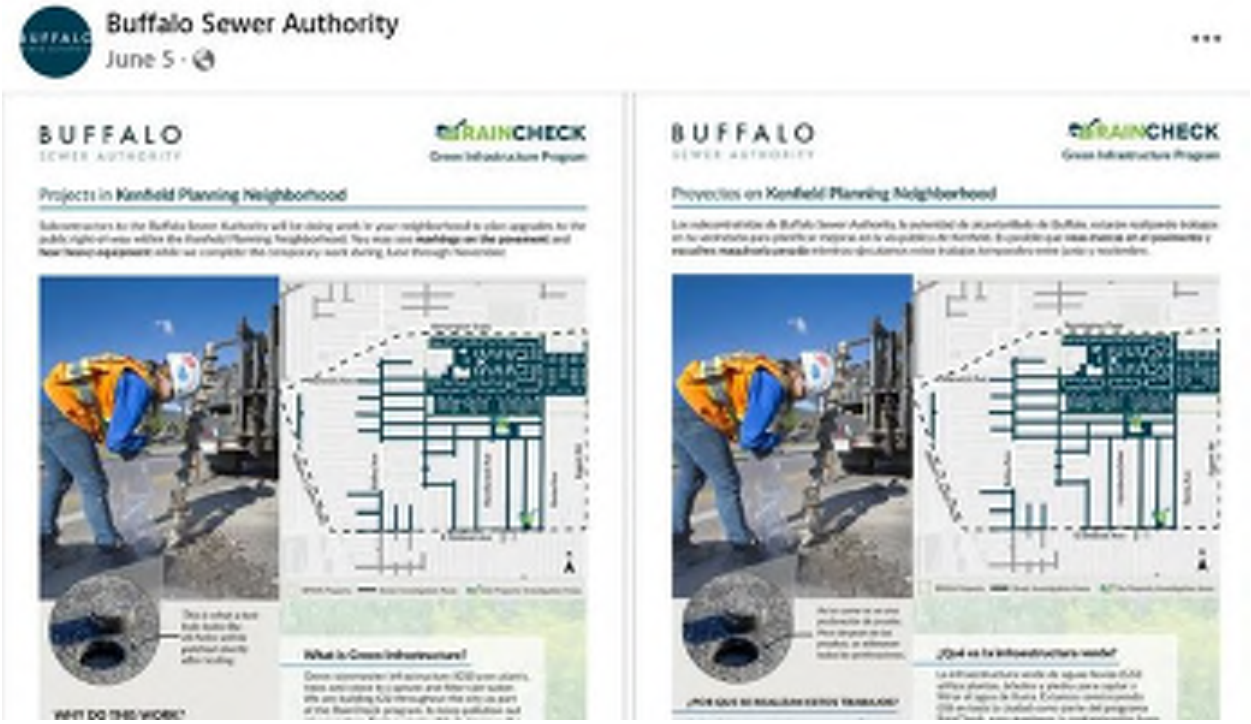

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Public Outreach Materials: Buffalo Sewer Authority Facebook Posts

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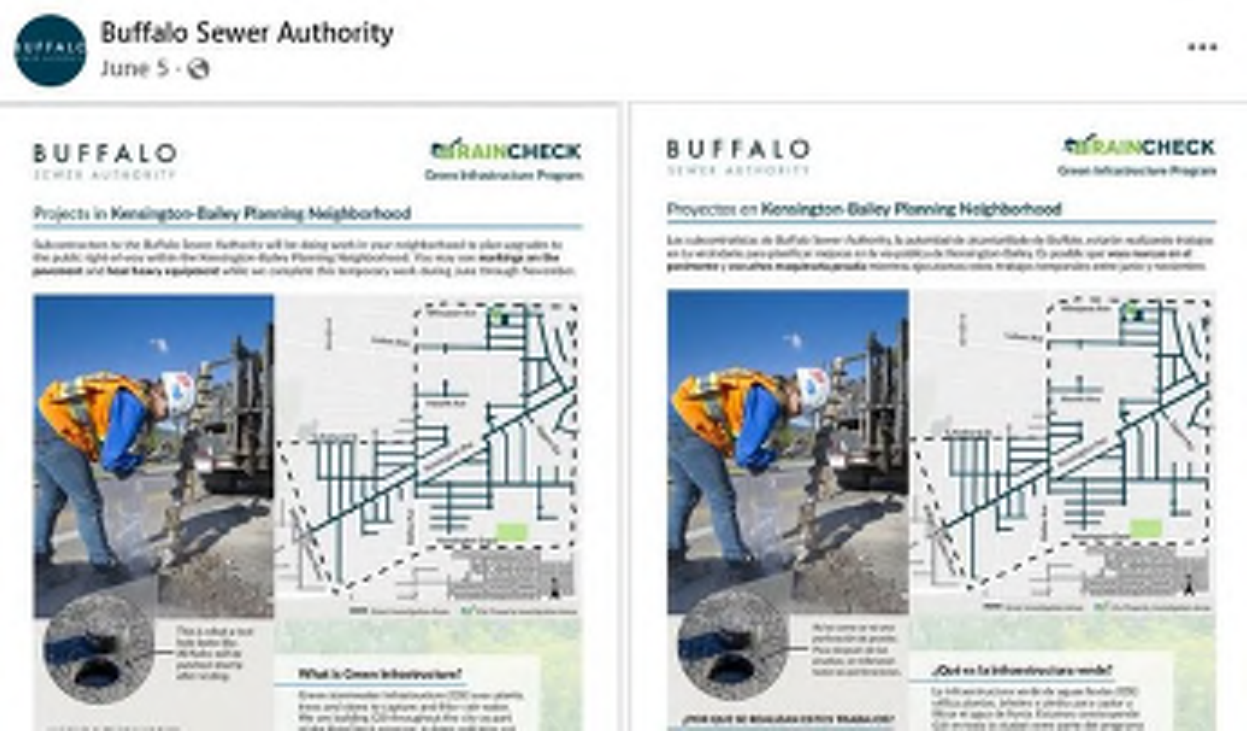

Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority Facebook Posts

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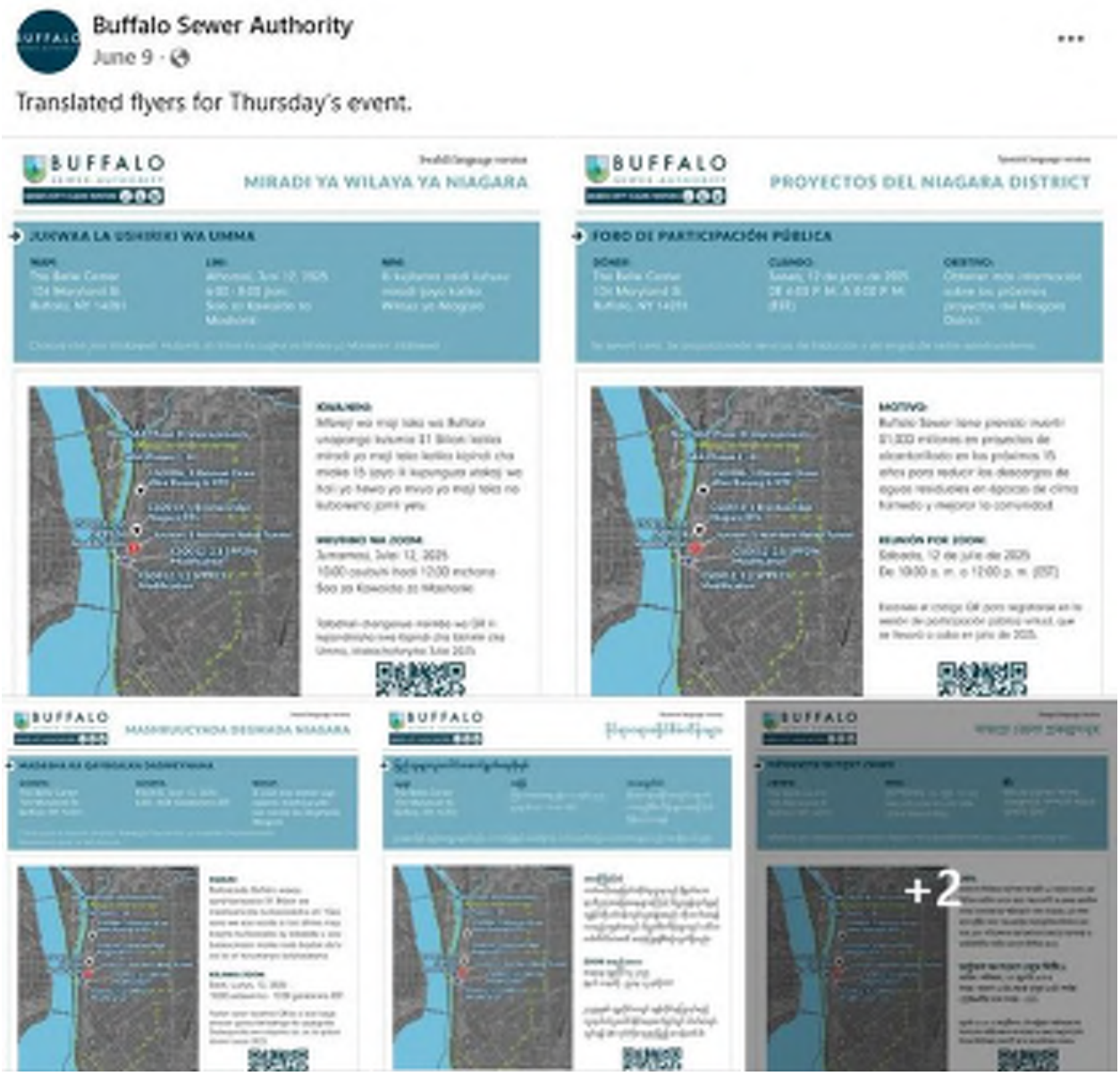
Public Outreach Materials: Buffalo Sewer Authority Facebook Posts

Buffalo Sewer Authority
June 6 ·

Join us for the Niagara District Public Participation Forum!
Buffalo Sewer is investing $1 Billion in sewer upgrades to protect our waterways and improve our community.

📍 The Belle Center, 104 Maryland St.
🗓️ Thursday, June 12, 2025
🕕 6:00–8:00 PM
🍽️ Dinner provided | 🌐 ASL & translation services available

Learn more about projects planned in your neighborhood.



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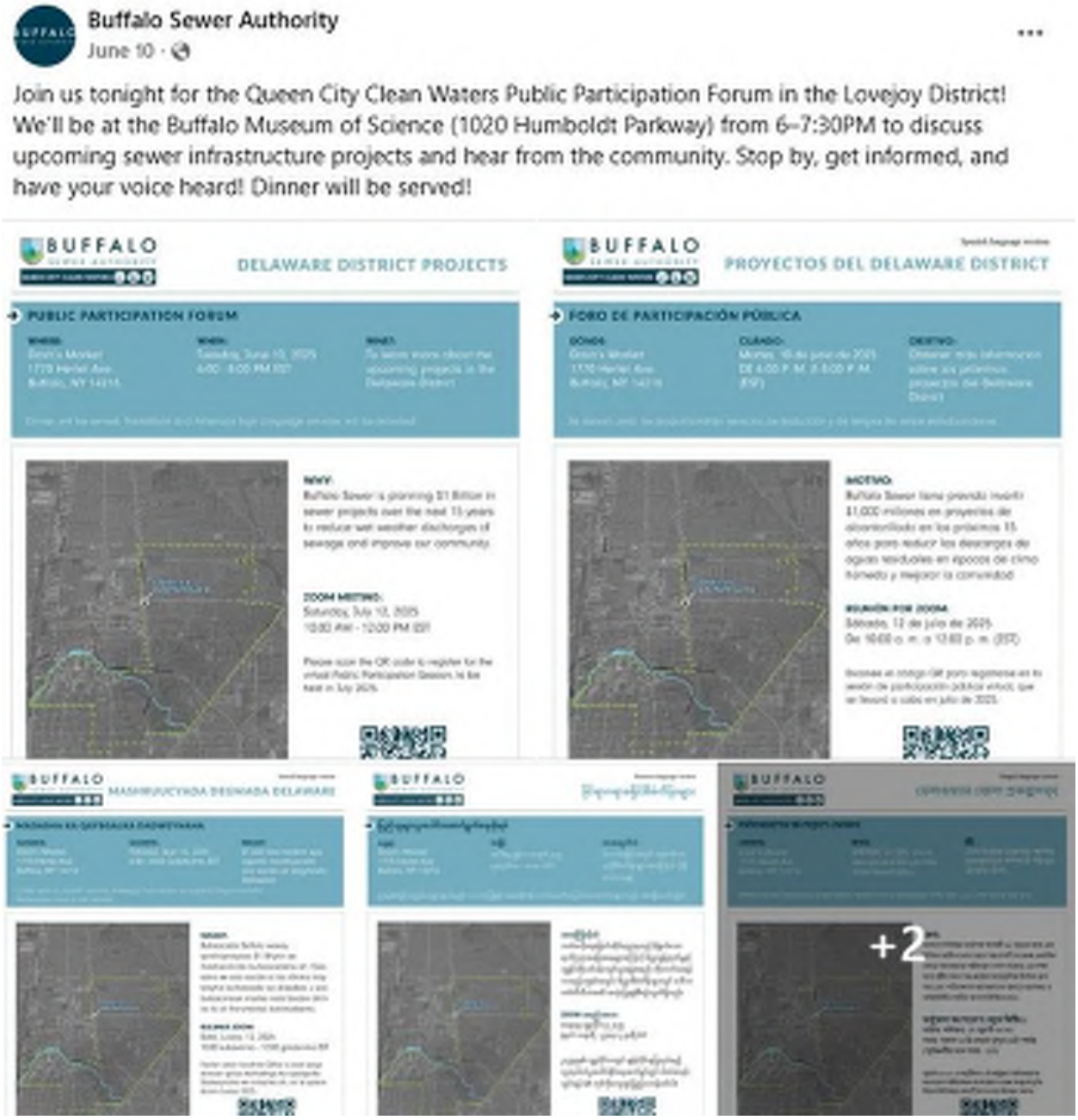
Public Outreach Materials: Buffalo Sewer Authority Facebook Posts



Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority Facebook Posts

Buffalo Sewer Authority
June 12 ·

📍 Join Us Tonight!
Buffalo Sewer Authority is hosting a Public Participation Forum for Niagara District residents! Come learn about the upcoming projects planned to improve our sewer infrastructure and protect our waterways.

📅 Thursday, June 12
🕕 6:00–8:00 PM
📍 The Belle Center, 104 Maryland St.

Dinner, translation, and ASL services will be provided. Let's build a cleaner, greener Buffalo together! 💧

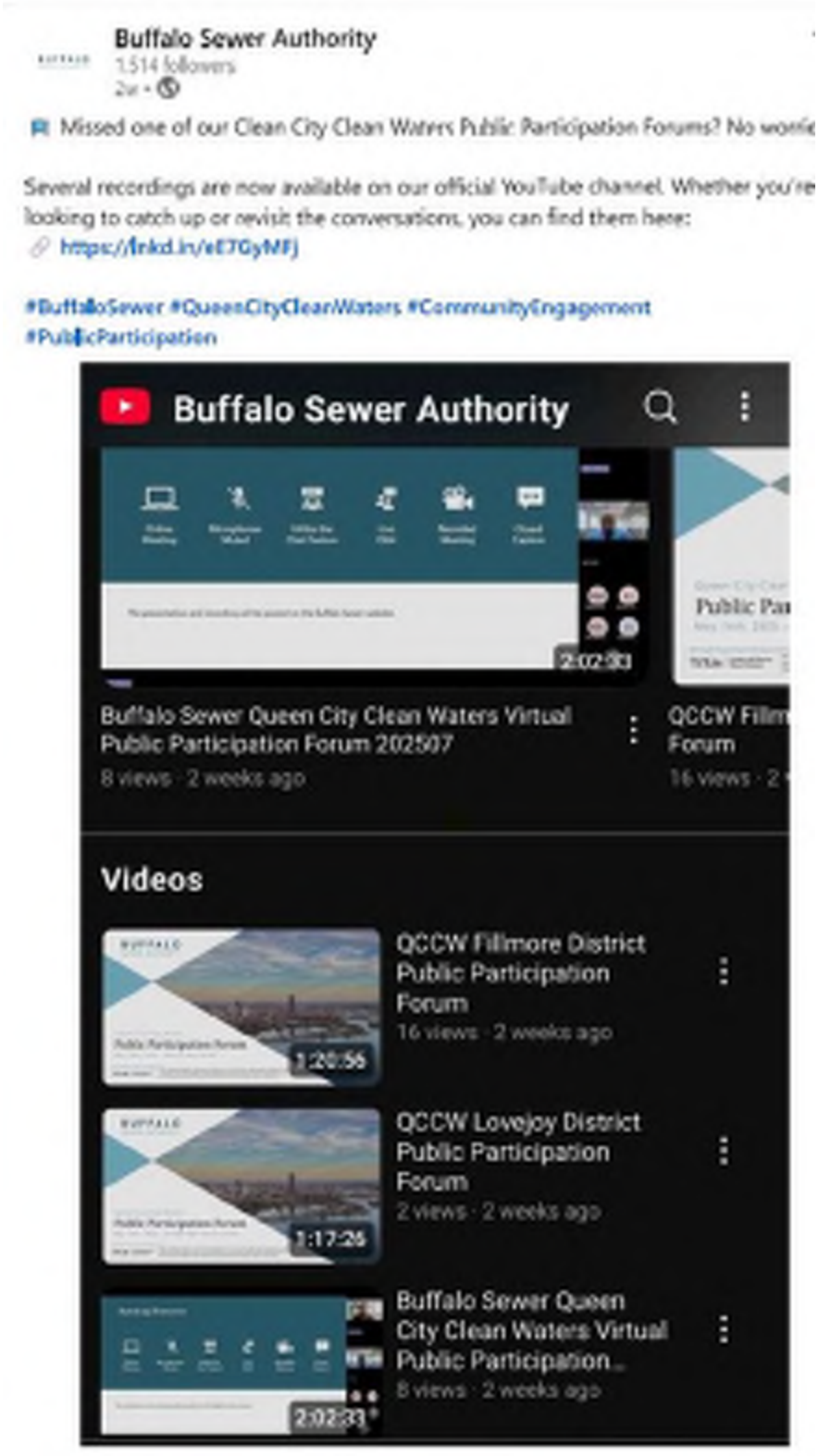
Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority Facebook Posts

Buffalo Sewer Authority
June 24 ·

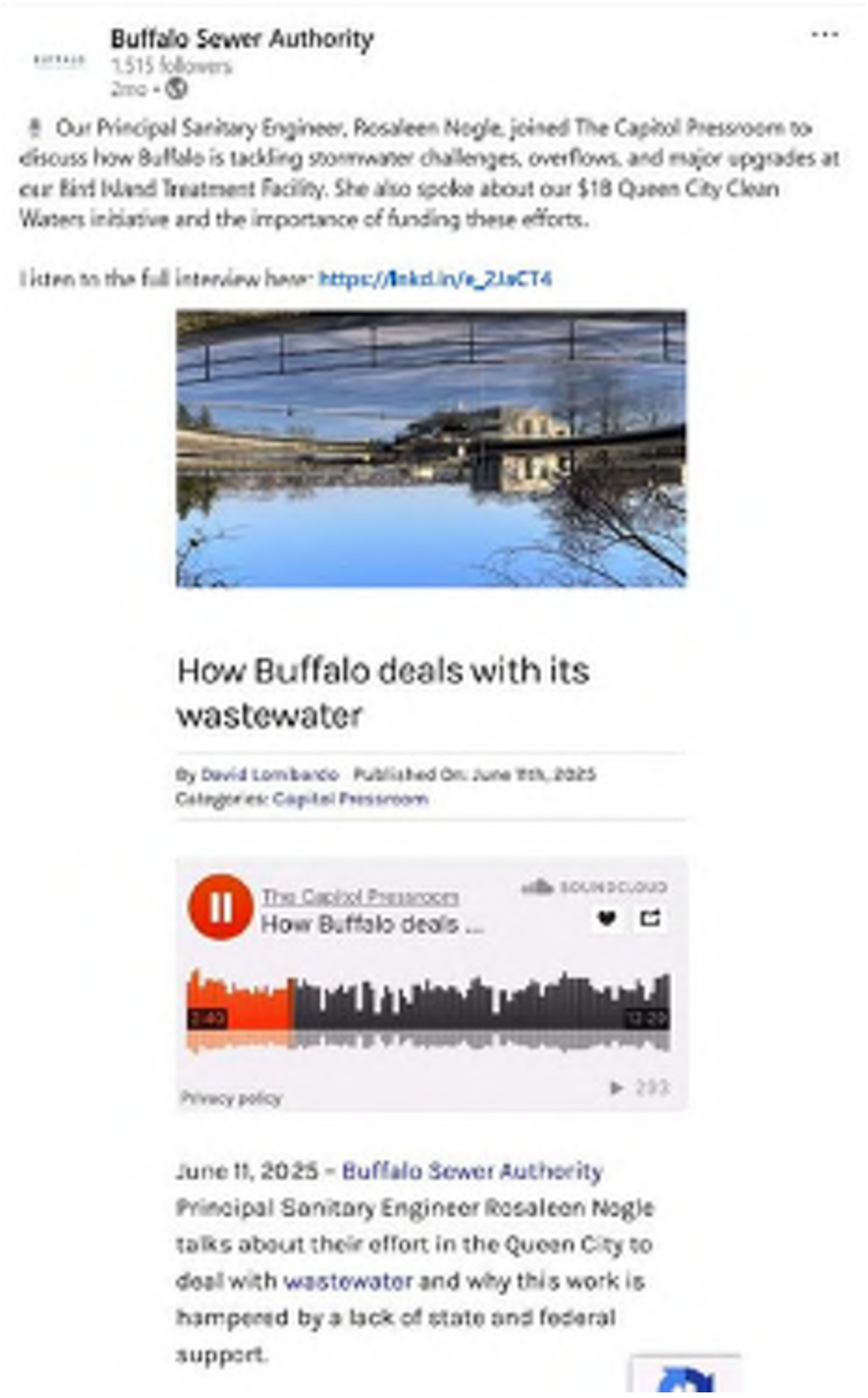
Combined sewer overflows have negatively affected our communities and waterways for decades. The historic investment in our wastewater and stormwater infrastructure will reduce the overflows of combined stormwater and wastewater.

Buffalo Sewer Authority
June 30 ·

Yesterday, Edwin Geter and Perry Pope from our Community Outreach Team were at the South Buffalo Farmers Market in Cazenovia Park engaging with residents, sharing information, and handing out materials about our Queen City Clean Waters projects. We're always proud to connect with the community and spread the word about protecting Buffalo's waterways.



Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority LinkedIn Posts



Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority LinkedIn Posts

Buffalo Sewer Authority
1,514 followers
4mo · 🌐

🌎 Happy Earth Day from Buffalo Sewer Authority!
We're celebrating by giving back to our community and protecting the environment we all share. Join us this Saturday, April 26th, as BSA participates in two neighborhood cleanup events:
Masten District Cleanup 📍 Canisius University Student Center, 81 Hughes Ave 🕙 10:00 AM – 2:00 PM 🍽 Panel luncheon to follow from 2:00 – 4:00 PM
International Schools Block Club Cleanup 📍 Meet at the corner of Baynes & Auburn 🕙 2:00 – 4:00 PM
Cleaning up debris before it can enter our system and helping to keep our waterways clean (like we do everyday). All are welcome—let's work together to keep Buffalo beautiful! 💧🌳 #EarthDay

Buffalo Sewer Authority
1,515 followers
1mo •

This weekend, Katie Walsh and Traserra Adams from our Community Outreach Team attended the Elliott District Stakeholders Breakfast to connect with residents and share information about our upcoming Queen City Clean Waters projects. We're committed to engaging with the community as we work to improve Buffalo's waterways and environment.

Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority LinkedIn Posts

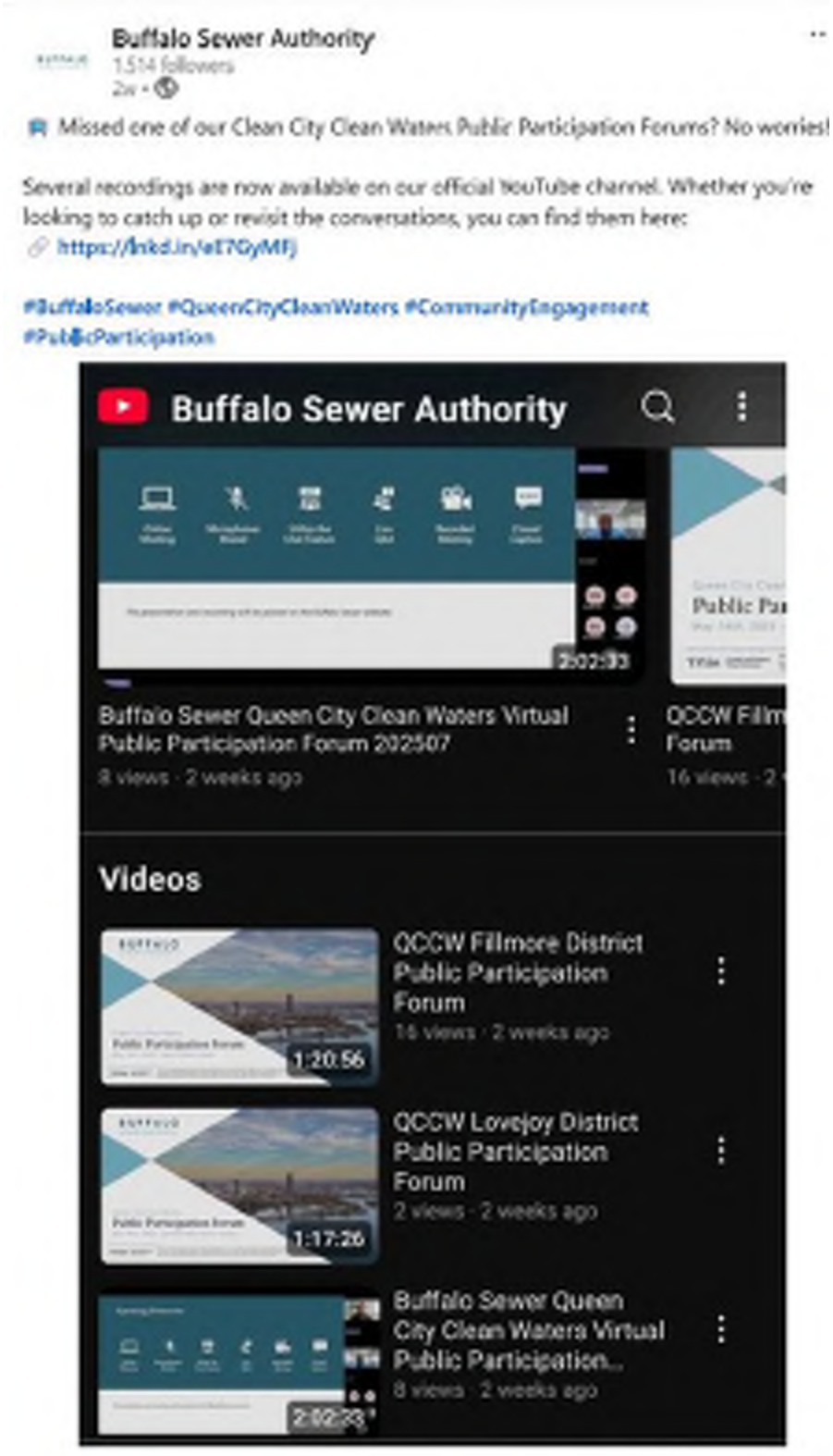
Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority LinkedIn Posts

Buffalo Sewer Authority
1,514 followers
2mo •

BSA was proud to march in this year's Juneteenth Festival Parade! 🎉💚❤️🧡
Our team showed up strong with an energetic float celebrating diversity and unity, while honoring the legacy of freedom, resilience, and progress. With the support of our unions CSEA 815 and CWA 1186, we joined the community in commemorating this important holiday and had a great time engaging with residents along the parade route.

Thank you to everyone who came out and celebrated with us — we're honored to be part of such a vibrant and historic tradition!

Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority LinkedIn Posts



Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority LinkedIn Posts

Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority X Posts

Buffalo Sewer Authority @BuffaloSewer - Mar 11

On Saturday Kaitlin Walsh and Traserra Adams from our Outreach Team were on hand at School 80's Saturday Academy where we talked with community members about our Queen City Clean Water projects.

Buffalo Sewer Authority @BuffaloSewer - Mar 18

City of Buffalo residents and stakeholders can access the website at buffaloqccw.org.

BSA wants to hear from you! Visit the link to share your thoughts and collaborate with us throughout this initiative.

buffaloqccw.org
Queen City Clean Waters Initiative
The Queen City Clean Waters Initiative will reduce overflows from the City's sewers by helping flow ...

Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority X Posts

Buffalo Sewer Authority @BuffaloSewer · Mar 18

The Buffalo Sewer Authority has launched an interactive website for the Queen City Clean Waters Initiative to engage local stakeholders and communities for project input and engagement.

Buffalo Sewer Authority @BuffaloSewer · Mar 19

On Saturday Perry Pope and Katie Walsh from our Outreach Team were back at another Saturday Academy this time at Riverside High School where they connected with community members and talked about our Queen City Clean Water projects.

Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority X Posts

Buffalo Sewer Authority @BuffaloSewer · May 2

Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority X Posts

Buffalo Sewer Authority @BuffaloSewer - May 2

Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority X Posts

Buffalo Sewer Authority @BuffaloSewer · May 5

Our Principal Sanitary Engineer, Rosaleen Nogle, joined WKBW to share how the Queen City Clean Waters Initiative will improve Buffalo's water infrastructure through 50+ projects over 15 years.

Explore more at: buffaloqccw.org

Buffalo Sewer Authority @BuffaloSewer · May 14

Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority X Posts

Buffalo Sewer Authority @BuffaloSewer · May 14

BSA recently held a Queen City Clean Waters forum in the Masten District. Missed it? Watch here: youtu.be/90axgJ-fwIEE

Join us tonight in the Fillmore District at 1081 Broadway. Refreshments provided!

Buffalo Sewer Authority @BuffaloSewer · May 15

This Infrastructure Week, BSA proudly highlights the critical systems that keep our city running. From treatment plants to underground networks, we're investing in a stronger, more resilient Buffalo—now and for the future. #InfrastructureWeek #BuffaloSewer

Buffalo Sewer Authority @BuffaloSewer · May 16

This Infrastructure Week, we're highlighting key upgrades at BSA.

Watch as Alex Emmerson, Tim Blake, and Paul Harris discuss bringing the "A Side" of Aeration back online—Phase 1 of a 3-phase project improving water quality.

Big steps forward. Cleaner water ahead.

Buffalo Sewer Authority @BuffaloSewer · May 20

Join us tonight from 6–8 PM at the Pratt Willert Community Center to learn about upcoming sewer projects in the Ellicott District.

Dinner, translation & ASL services provided.

Can't attend? Join our virtual session July 12 — scan the flyer QR code to register.

#BuffaloSewer

Buffalo Sewer Authority @BuffaloSewer · May 23

Join Buffalo Sewer Authority & Queen City Clean Waters at Waterkeeper Weekend!

Catch us Sat, May 31 | 12–7PM at Canalside for music, food, fun & the start of water season!

Details: bnwaterkeeper.org/waterkeeper-we...

Buffalo Sewer Authority @BuffaloSewer · May 28

📢 Join us Tuesday, June 10 from 6–8 PM at Dash's Market (1770 Hertel Ave) for a Public Participation Forum on upcoming sewer projects in the Delaware District.

Learn how Buffalo Sewer is investing in infrastructure to improve water quality in our community.

Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority X Posts

Buffalo Sewer Authority @BuffaloSewer · Jun 2

📢 North District residents — join us for a Public Participation Forum on Tuesday, June 17 from 6–8 PM at the Northwest Buffalo Community Center (155 Lawn Ave).

Learn about upcoming sewer projects and how we're investing to improve water quality. Dinner provided!

Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority X Posts

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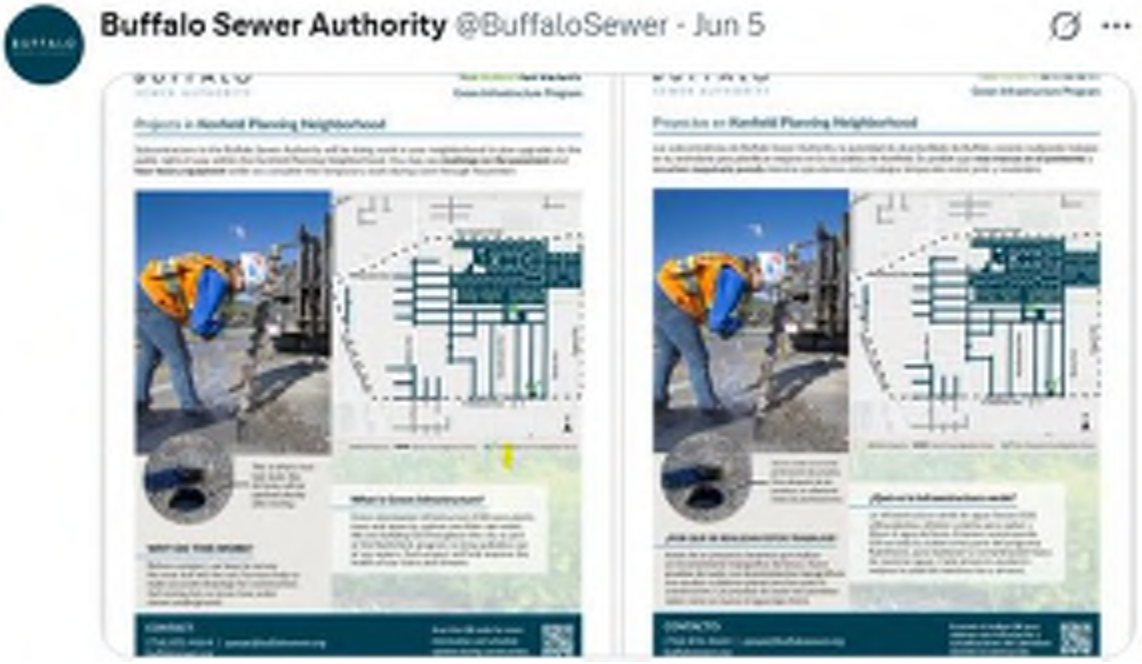

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Buffalo Sewer Authority @BuffaloSewer · Jun 5

Buffalo Sewer Authority @BuffaloSewer · Jun 5

Attachment C to the Semi-Annual Status Report: September 2025
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Buffalo Sewer Authority @BuffaloSewer · Jun 5

Buffalo Sewer Authority @BuffaloSewer · Jun 5

Attachment C to the Semi-Annual Status Report: September 2025
Public Outreach Materials: Buffalo Sewer Authority X Posts

Buffalo Sewer Authority @BuffaloSewer · Jun 6

Join us Thursday, June 12 from 6-8 PM at The Belle Center to learn about major sewer projects coming to the Niagara District. Dinner will be provided, along with translation and ASL services.

Buffalo Sewer Authority @BuffaloSewer · Jun 10

Happening tonight!
Join us at the Buffalo Museum of Science from 6–7:30PM for the Lovejoy District Public Participation Forum. Learn about upcoming sewer projects and share your input!

Buffalo Sewer Authority @BuffaloSewer · Jun 12

Join us tonight at The Belle Center (6–8 PM) for a Public Participation Forum on upcoming Niagara District sewer projects. Dinner & translation services provided.

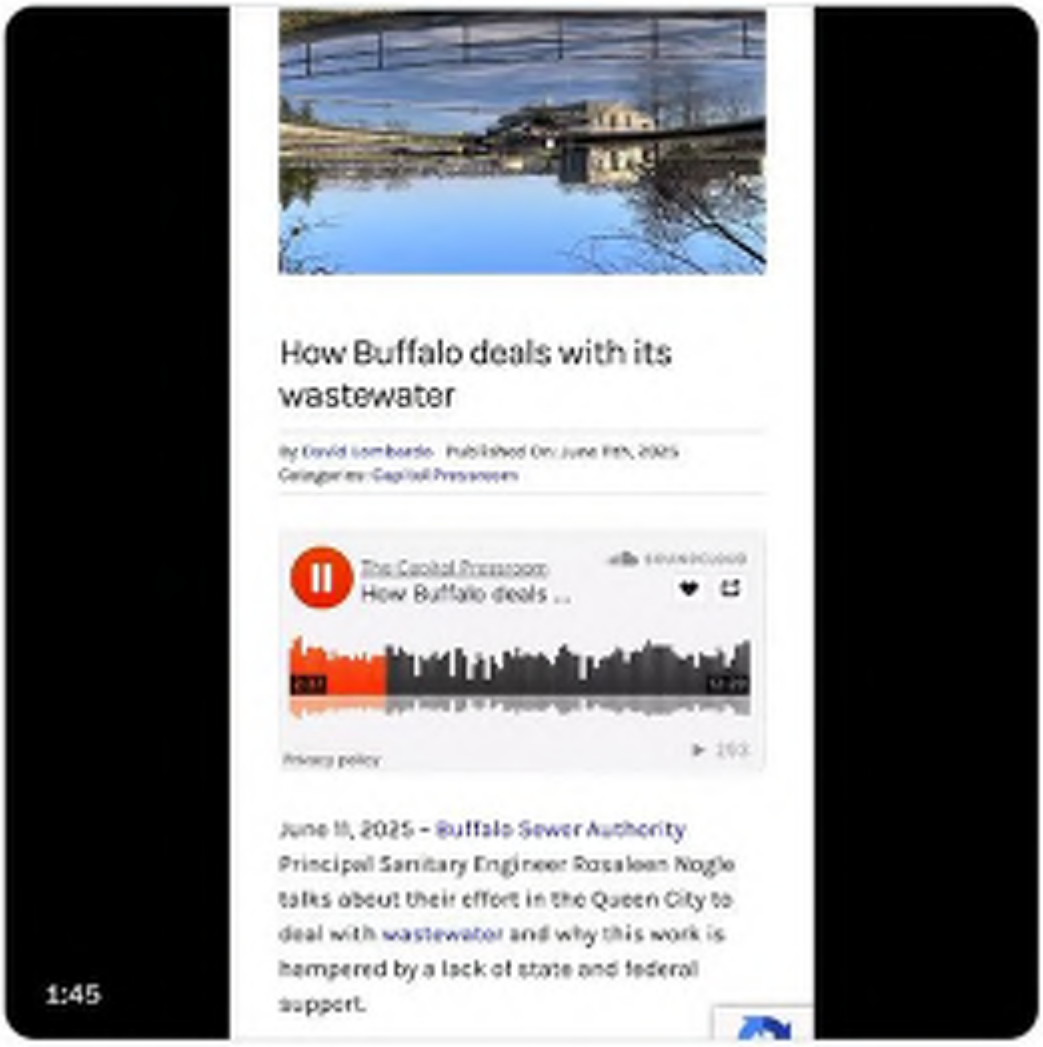
Buffalo Sewer Authority @BuffaloSewer · Jun 12

News 4 covered Tuesday's QCCW Forum at Dash's, highlighting BSA's $1B clean water initiative, work on Scajaquada Creek, and upgrades at Bird Island. Don't miss tonight's forum in the Niagara District at The Belle Center (104 Maryland St.)!

Buffalo Sewer Authority @BuffaloSewer · Jun 13

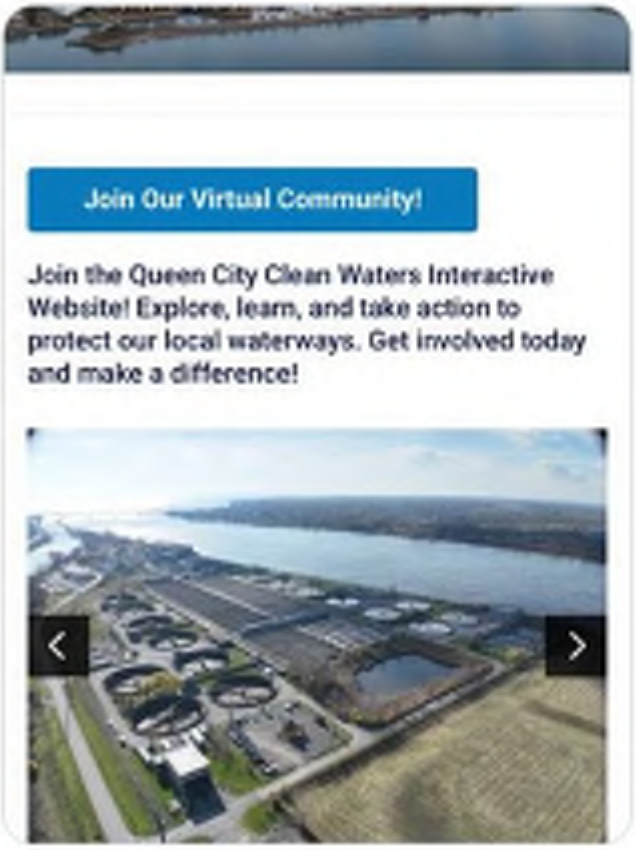
BSA's Rosaleen Nogle joined The Capitol Pressroom to talk stormwater, sewer overflows, upgrades at Bird Island, and our $1B Queen City Clean Waters plan.

Full interview: capitolpressroom.org/2025/06/11/how...



Buffalo Sewer Authority @BuffaloSewer · Jun 16

The Buffalo Sewer Authority has launched an interactive site for the Queen City Clean Waters Initiative! Visit buffaloqccw.org to learn more and share your input. We want to hear from you!



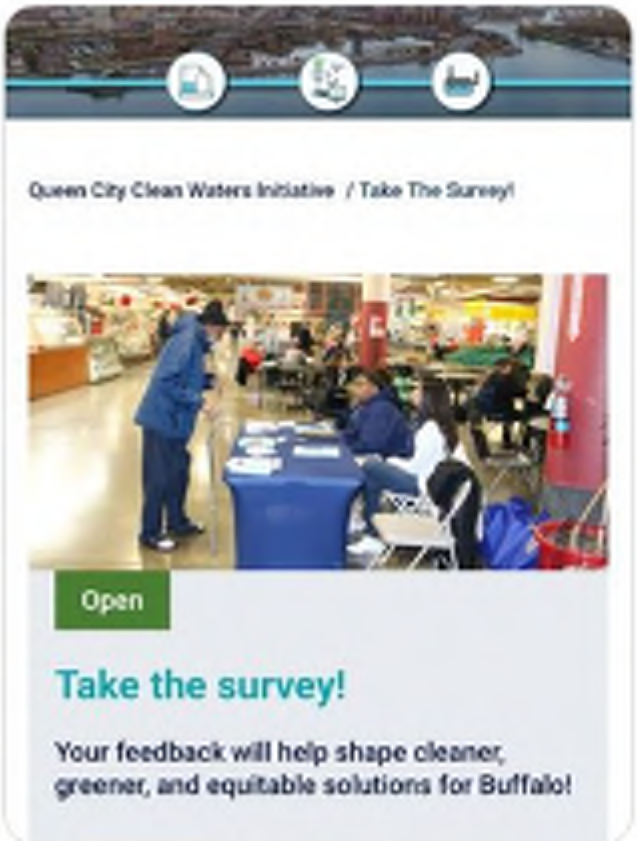
Buffalo Sewer Authority @BuffaloSewer · Jun 24

Combined sewer overflows have negatively affected our communities and waterways for decades. The historic investment in our wastewater and stormwater infrastructure will reduce the overflows of combined stormwater and wastewater.

Buffalo Sewer Authority @BuffaloSewer · Jun 27

Your feedback is crucial for the success of the Queen City Clean Waters Initiative, visit the survey below to shape a brighter future across the city of Buffalo!

buffaloqccw.org/take-survey



Buffalo Sewer Authority @BuffaloSewer · Jun 27
BSA's Rosaleen Nogle sat down with Joe Chille from Townsquare Media to discuss clean water and infrastructure. Catch the full interview Sunday:
6AM on 96.1
6:30AM on WYRK, WBUF & WBLK
3:12

Buffalo Sewer Authority @BuffaloSewer · Jun 30

Edwin Jeter and Perry Pope from our Outreach Team stopped by the South Buffalo Farmers Market to share info on our Queen City Clean Waters projects and connect with the community.

Attachment D to the Semi-Annual Status Report: September 2025

Preliminary Engineering Reports

BUFFALO
SEWER AUTHORITY

BUFFALO SEWER AUTHORITY | SPDES PERMIT NO. NY0028410 | CAPITAL PROJECTS PROGRAM MANAGEMENT | BSA CONTRACT NO. 82000075

CSO-053 Sewer Patrol Point (SPP) Modifications – Preliminary Engineering Report

[redacted]

Prepared by JM Davidson Engineering, DPC

JUNE 14, 2024, REVISED JANUARY 2025

TYLin | Greeley and Hansen Water Solutions

BSA Capital Projects Program Management Team:

Arcadis | JM Davidson Engineering | Hallmark Planning & Development | e3 Communications | Watts Architecture & Engineering | CORE Environmental | Atlantic Testing Laboratories | Frandina Engineering and Land Surveying | KHEOPS Architecture, Engineering and Survey | International Institute of Buffalo | Jade Stone Engineering | NASCO Construction Services | JKMuir

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Executive Summary

The Buffalo Sewer Authority (BSA) provides wastewater service to approximately 550,000 people. As part of this service, the BSA owns and operates the Bird Island Wastewater Treatment Facility (WWTF), constructed in 1935 and expanded in the late 1970's to include secondary treatment, along with managing 850 miles of collection system.

The BSA entered into an Administrative Order (AO) with New York State Department of Environmental Conservation (DEC) and the United States Environmental Protection Agency (EPA) as part of their approved Combined Sewer Overflow (CSO) Long Term Control Plan (LTCP), approved on March 18, 2014. The purpose of the LTCP is to reduce CSO activations within the existing collection system and to alleviate flow spikes for influent flow to the WWTF.

Compliance with the LTCP is defined by the number of activations allowed in the typical precipitation year for the CSO's receiving waterbody as determined by BSA's collection system hydraulic model. Following the approval of the LTCP in 2014 by the regulatory agencies, the collection system hydraulic model used in the LTCP was updated and recalibrated to reflect current system conditions.

The updated and re-calibrated LTCP (now re-named the Queen City Clean Waters Program) model suggested that some projects originally envisioned in the 2014 LTCP are no longer feasible and that other planned projects can be further optimized to meet targets. The BSA recently undertook an optimization process that further defined projects still necessary to achieve compliance, along with preliminary sizing for such.

This report covers the alternatives evaluated for the following recommended capital projects within the collection system tributary to CSO-053 to further reduce CSO activations. Preliminary drawings for these capital projects are given in **Appendix F:**

- CSO053_2.5 SPP337 Modification – Colorado Avenue at Scajaquada Street.
    - Installation of a new vortex-style drop shaft to the Scajaquada Tunnel to accommodate a peak flow of 48 MGD.
- CSO053_3.1 SPP338 Modification – Bailey Avenue near Kerns Avenue and Scajaquada Street.
    - Installation of a new labyrinth weir to increase weir length from 14.75 ft to 30-ft and raise the height of the weir by 1.83 ft.
- CSO053_8 SPP341A Modification – Genesee Street near Kerns Avenue.
    - Installation of a new vortex-style drop shaft to the Scajaquada Tunnel to accommodate a peak flow of 26.4 MGD.
- CSO053_14 SPP175, 176, and 177 Modifications – Michigan Avenue at Dodge Street, Riley Street, and Glenwood Street, respectively.
    - Increasing the weir heights in the three SPPs.
- SPP 336B Modifications – Humboldt Parkway north of Sidney Street

- Remove orifice plate.

Opinions of Probable Construction Costs for the recommended capital project and proposed implementation schedules are given below.

It should be noted that several changes to the original projects have been made as final design has progressed and since the PERs were originally submitted to the NYSDEC for review. Most notably:

- Humboldt Parkway – CSO053_13 SPP165B Modification is no longer necessary. During final design, a site visit to this SPP indicated conditions slightly different from what was in the collection system model. Once changes to the model were made to reflect observations from the field, SPP165B was projected to meet the target no. of activations at this location in the typical year.
- S. Bailey CSOO53_3.1 SPP338 Modification – As the BSA is currently in the midst of a Smart Sewer project that is installing flow meters and level sensors in several locations throughout the sewer collection system for enhanced monitoring and control, it was decided that the installation of a new weir would be completed as a change order to the Smart Sewer project contract since a contractor was already working in this location. This will allow the work at this location to be completed in 2025, well ahead of the required construction completion date of December 2029.
- Humboldt SPP336B Modification – The removal of the orifice plate in this location was originally part of the Sidney Off-Line Storage (OLS) project (which is described under a separate engineering report); however, the scope of the Sidney project has changed from an OLS to a Real-Time Control Project and is currently under revised design. Since the modifications to the SPP are minor, it was added as another SPP modification under the CSO-053 SPP Modifications Project.

Project Component	OPCC (2024 Dollars)	OPCC (2027 Dollars)	Engineering (2027 Dollars)	Misc. (2027Dollars)	Contingency (2027 Dollars)	TOTAL (2027 Dollars)
Colorado Ave – CSO053_2.5 SPP337 Modification (Alternative 5G)	$7,738,000	$8,588,000	$2,576,000	$429,000	$4,058,000	$15,652,000
Humboldt Parkway – CSO053_13 SPP165B Modification	Project no longer required because SPP is in compliance under existing conditions, based on updated information.					
Genesee Street – CSO053_8 SPP341A Modification	$4,224,000	$4,689,000	$1,407,000	$235,000	$2,215,000	$8,545,000
Michigan Ave – CSO053_14 SPP175, SPP176, and SPP177 Modifications	$133,000	$148,000	$44,000	$7,000	$70,000	$269,000

Project Component	OPCC (2024 Dollars)	OPCC (2027 Dollars)	Engineering (2027 Dollars)	Misc. (2027Dollars)	Contingency (2027 Dollars)	TOTAL (2027 Dollars)
S. Bailey CSOO53_3.1 SPP338 Modification	$159,000	$176,000	$53,000	$9,000	$83,000	$321,000
Humboldt SPP336B Modification	Improvements consist of removal of an underflow orifice plate; costs are assumed to be minimal and are not included here.					
TOTAL CAPITAL COST	**$12,254,000**	**$13,601,000**	**$4,080,000**	**$680,000**	**$6,426,000**	**$24,787,000**
TOTAL CAPITAL COST MINUS SPP338 project	**$12,095,000**	**$13,425,000**	**$4,027,000**	**$671,000**	**$6,343,000**	**$24,466,000**

Note: *Total capital costs in this line exclude costs for the SPP338 Project, as that will be completed under a change order to an existing project in the same area.

The tables below summarize the expected completion dates for the projects, along with the most recent regulatory dates (as of December 31, 2024). Note that there may be different deadlines for the different components of this project and therefore, the different tables show the applicable dates associated for the various modifications.

SCHEDULE FOR SPP 341A, 336B, 175, 176, 177 Modifications	Anticipated Completion Date	Regulatory Completion Dates
Design Completion	Summer 2025	December 31, 2025
Regulatory Review	Fall 2025	---
Bidding	Fall 2025/ Winter 2026	December 31, 2025 (same as design completion)
Construction Start Date (Notice to Proceed)	Spring 2026	June 30, 2026
Construction End Date	Fall 2027	December 31, 2027

SCHEDULE FOR SPP 337	Anticipated Completion Date	Regulatory Completion Dates
Design Completion	Winter 2026	June 30, 2026
Regulatory Review	Spring 2026	---
Bidding	Winter/ Spring 2026	June 30, 2026 (same as design completion)
Construction Start Date (Notice to Proceed)	Fall 2026	December 31, 2026
Construction End Date	Fall 2028	December 31, 2028

SCHEDULE FOR SPP 338 (Note that is project is projected to be completed approximately 4 years early)	Anticipated Completion Date	Regulatory Completion Dates
Design Completion	Winter 2025	December 31, 2026
Regulatory Review	Winter 2025	---
Change order to existing Smart Sewer Project	Winter/ Spring 2025	December 31, 2026
Construction Start Date (Notice to Proceed)	Spring 2025	June 30, 2027
Construction End Date	Fall 2025	December 31, 2029

SECTION 1 PROJECT BACKGROUND AND HISTORY

1.1 Site Information

1.1.1 Project Background and Location

The Buffalo Sewer Authority (BSA) provides wastewater service to approximately 550,000 people. As part of this service, the BSA owns and operates the Bird Island Wastewater Treatment Facility (WWTF), constructed in 1935 and expanded in the late 1970s to include secondary treatment, along with managing 850 miles of collection system.

The BSA entered an Administrative Order (AO) with the New York State Department of Environmental Conservation (DEC) and the United States Environmental Protection Agency (EPA) as part of their Combined Sewer Overflow (CSO) Long Term Control Plan (LTCP) approved on March 18, 2014. The purpose of the LTCP is to reduce CSO activations within the existing collection system and to alleviate influent flow spikes at the WWTF.

Compliance with the LTCP is defined by the number of activations allowed in the typical precipitation year for the CSO receiving waterbodies (**Table 1-1**), as determined by BSA's collection system hydraulic model. The target number of activations for each water body is determined based on its water quality and, as can be seen in Table 1-1, can vary from as few as two activations in Erie Basin Marina to nine activations in Cornelius Creek and the Niagara River.

Table 1-1: Target Number of Activations in the Typical Year by Receiving Waterbody

Receiving Waterbody	Target Number of Activations in Typical Year
Black Rock Canal	4
Buffalo River	6
Cazenovia Creek	4-6*
Cornelius Creek	9
Erie Basin Marina	2
Niagara River	9
Scajaquada Creek	4

* Dependent on location along Cazenovia Creek

The approved LTCP outlined a multi-year plan for implementing projects to reduce overflows in the BSA sewer collection system to target levels. Potential projects included a mix of in-line storage (ILS), off-line storage (OLS), real time control (RTC), and green infrastructure (GI).

Following the approval of the LTCP in 2014 by the regulatory agencies, the collection system hydraulic model used in the LTCP was updated and recalibrated to reflect current system conditions. To determine the ability of projects to mitigate activations, the recalibrated PC-SWMM model was populated with the LTCP projects implemented to date, as well as the remaining planned LTCP projects. It was expected that the use of the new calibrated PC-SWMM model would result in more refined results than the XP-SWMM model used in the 2014 LTCP because:

- The new PC-SWMM model incorporated additional nodes and links not incorporated in the original XP-SWMM model.
- The recent calibration utilized flow data that should reflect more current conditions.

- More hydrological subbasins were defined, allowing for more representative parameters for a given area.

The updated and re-calibrated LTCP model suggested that some projects originally envisioned in the 2014 LTCP are no longer feasible and that other planned projects can be further optimized/ resized to meet targets. As a result, the BSA undertook a program with Xylem and several subconsultants that worked collaboratively with BSA to compile a revised list of projects to be considered. The list included both new projects and those projects from the 2014 LTCP preferred alternative that are still viable for implementation. An optimization process was then leveraged to evaluate the impacts of implementing different variations and combinations of these projects with the goal of minimizing both CSO activations and construction costs. The project team also optimized the distributed control scheme to find the optimal combination of control set points that maximize the system's conveyance and storage capacity. The result of these activities is a revised set of recommended projects (the Selected Alternative) for achieving LTCP compliance.

The optimization process began with a collaborative effort between the BSA and the project team to identify potential projects. Potential projects were added or removed from the list based on a variety of factors including:

- Property ownership
- Underground contamination concerns
- Ability to utilize gravity flow rather than pumping where possible
- Impact on other SPPs with low target activations and high overflow volume in the LTCP baseline
- Potential coordination with other construction projects

Seventy-seven projects were considered during the optimization. Each project was initially identified as a general concept, with sizing and configuration specifics modified through the optimization process. The project optimization process consisted of three rounds:

- Round 1 narrowed the set of project alternatives per SPP. Component models were developed for out of compliance SPPs and test events established for each component model as a proxy for the typical year. These events varied according to the SPP's activations in the baseline model typical year. Projects were added to and removed from the component models to determine which projects were most cost effective for removing out-of-compliance activations. Projects were removed from consideration after Round 1 if they did not have a significant impact on the number of activations.
- In Round 2, the scope of the optimization expanded to the full system with the objective of achieving compliance at all SPPs. Instead of component models, a skeletonized, full system model was used. A new set of test events was selected to include activations at all SPPs that were out of compliance in the baseline. Along with model adjustments, the test events allowed more project implementation scenarios to be evaluated efficiently. These scenarios included different combinations of the projects to be implemented, structure sizing, and real-time control timing. The results of the Round 2 optimization informed what size ranges and configurations would be included in Round 3.
- The objective of Round 3 was to minimize the project cost while still achieving compliance. The refined project configurations from Round 2 were applied to the skeletonized, full system model. The upper and lower bounds for the optimization parameters were adjusted based on the outcomes of Round 2, and cost was included in the multi-objective optimization along with the volume of untreated flow and the number of out of compliance activations for the optimization test event group. The project set from Round 3 that minimized the number of out of compliance activations

in the skeletonized model test events for the lowest cost was incorporated into the full model for the official Typical Year simulation. The first typical year simulation showed 8 SPPs still out of compliance. Project configurations were subsequently updated until compliance was achieved. To achieve compliance and generate reasonable detailed cost estimates, the project configurations were updated. The resulting set of projects is termed the Selected Alternative.

1.1.2 CSO-053 Projects

The Scajaquada District has 12 CSOs that discharge to either Black Rock Canal or Scajaquada Creek. Per the results, using typical year rainfall, CSO-053 in the Scajaquada District was still projected to exceed its target activations of four per year, as shown in Table 1-1. The following SPPS are tributary to CSO-053 and contribute to the CSO activations: SPPs 229A, 175, 165B, 340, 338, 337, 339, and 336B.

A variety of projects were evaluated upstream of the SPPs that overflow to CSO-053 on Scajaquada Creek. The following decisions were made as part of the alternatives analysis:

- The operational North Bailey RTC project would be impacted by these new projects and would have its control setpoints adjusted accordingly.
- Three projects considered upstream of SPP337 were not included in the Selected Alternative because SPP modifications were more cost-effective.
- An additional RTC project upstream of SPP338 was not needed to achieve compliance for that SPP.
- One additional OLS site was considered upstream of SPP340 but was not included in the Selected Alternative to consolidate the project area.

Ultimately, the Selected Alternative achieves compliance for all CSO-053 SPPs that were out of compliance in the baseline plan model. This report is the preliminary engineering report (PER) for six sites requiring Sewer Patrol Point (SPP) Modifications. **Figure 1-1** shows the locations of the sites included in this report:

- CSO053_2.5 SPP337 Modification – Colorado Avenue at Scajaquada Street
- CSO053_13 SPP165B Modification – East Delavan Avenue at Humboldt Parkway
- CSO053_3.1 SPP338 Modification – Bailey Avenue near Kerns Avenue and Scajaquada Street
- CSO053_8 SPP341A Modification – Genesee Street near Kerns Avenue
- CSO053_14 SPP175, 176, and 177 Modifications – Michigan Avenue at Dodge Street, Riley Street, and Glenwood Avenue, respectively.
- CSO053_1.5 SPP336B Modifications – Humboldt Parkway north of Sidney Street.

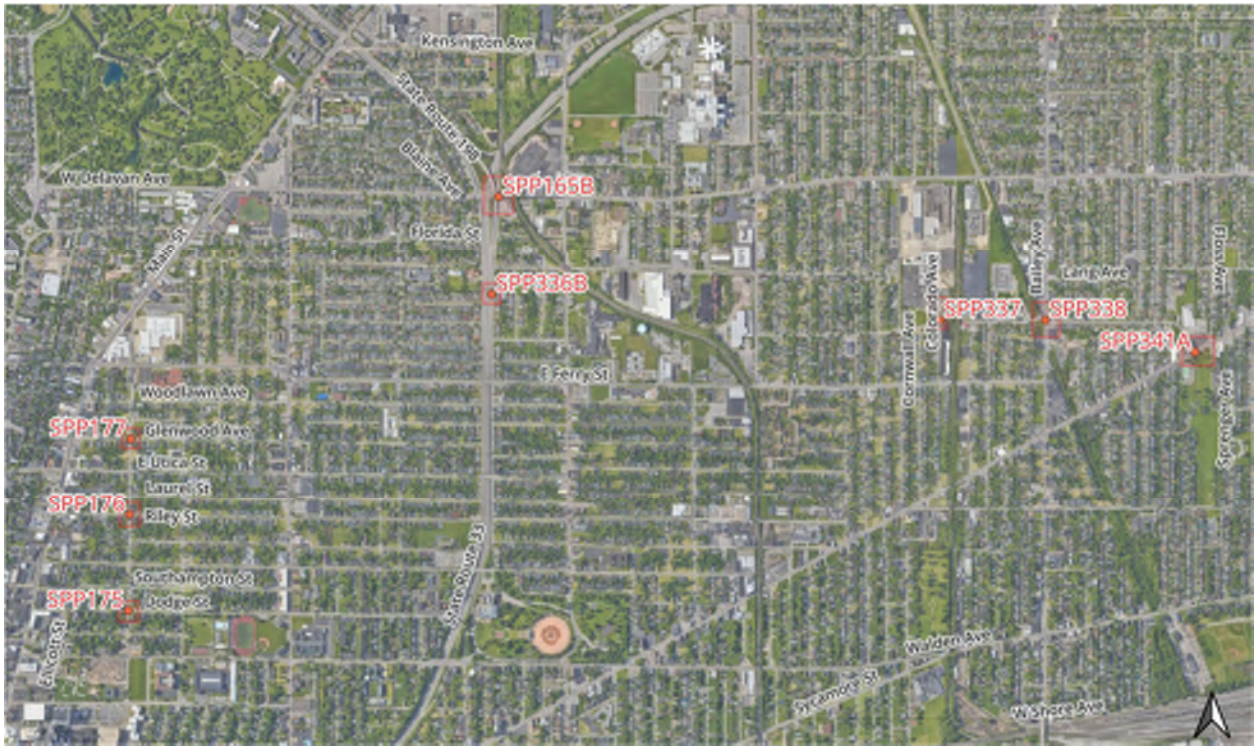


Figure 1-1: Project Locations

1.1.3 Geological Conditions

According to the Natural Resources Conservation Service's Web Soil Survey, the soil types for the project locations are:

- **CSO053_2.5 SPP337 Modification** – Urban land (Ud). This site was previously known to be contaminated due to the actions of former property owners; General Motors (GM) and American Axle & Manufacturing, Inc. (AAM). Polychlorinated Biphenyls (PCBs) were primarily found in environmental samples taken from 250 Colorado Street.
- **CSO053_13 SPP165B Modification** – Urban land-Cayuga complex (Ug) and Urban land-Collamer complex (UmA, 1 to 6% slopes).
- **CSO053_3.1 SPP338 Modification** – Urban land (Ud), Urban land-Odessa Complex (Ut, 0 to 3% slopes), and Urban land-Teel complex (Uw).
- **CSO053_8 SPP341A Modification** – Urban land-Odessa Complex (Ut, 0 to 3% slopes), and Urban land-Teel complex (Uw).
- **CSO053_14 SPP175, 176, and 177 Modification** – Urban land-Odessa Complex (Ut, 0 to 3% slopes), Urban land-Claverack complex (Uk), Urban land-Cosad complex (Uo), Urban land-Niagara complex (Us), and Urban land-Collamer complex (UmA, 1 to 6% slopes).
- **CSO053_1.5 SPP 336B Modification** – Udorthents, smoothed (Uc)

More detailed soil descriptions are included in **Appendix B**; however, the urban soils present are typically moderately to well-drained soils consisting heavily of silt loam underlaid by gravelly silt loam, silty clay loam, silty clay, and sandy loam.

The depth to water table and depth to bedrock is generally greater than 200 cm (6.5 ft) at all locations. The geologic maps for the SPP modifications projects with subsurface work are provided in **Appendix B.**

As design progresses, soil borings will be completed at each location requiring excavation, so that more detailed information will be obtained. Note that for modifications not involving excavation, such as those modifications at SPPs 228, 175, 175, 177, and 226B, no soil borings will be obtained or considered.

1.1.4 Flood Zones

Flood zones are geographic areas that FEMA has defined according to varying levels of flood risk. All sites fall within FEMA's Zone X, which is an area of minimal flood hazard determined to be outside the 500-year flood zone. The flood zone maps for each project site can be seen in **Appendix C**.

1.1.5 Environmental Resources

The United States Fish and Wildlife Service's Information for Planning and Conservation (IpaC) database was researched for all locations where subsurface work is planned. The IpaC preliminary results indicate that the Northern long-eared bat is a threatened species that may occur in the project area. The Northern long-eared bat is a species likely to become endangered within the foreseeable future. The database also indicates that the monarch butterfly exists within the project area and is a candidate for listing as a threatened species. The project area also consists of habitat for 23 migratory birds. This project is unlikely to impact any of the aforementioned species as planned work is to occur within existing paved areas. The IPaC preliminary report for the project locations can be found in **Appendix D.**

The sewer system has three major receiving water bodies: Scajaquada Creek (PWL ID: 0101-0023), Black Rock Canal (0101-0025), and the Niagara River (0101-0006). The latest water quality assessment provided by NYSDEC classifies all three waterbodies as "impaired" for fish consumption due to contaminants that degrade the habitat. The Scajaquada Creek is also listed as "impaired" for both primary and secondary recreational use. Niagara River is classified as a "threatened" water supply system with "stressed" aquatic life. According to the NYSDEC, the high density of sanitary wastewater discharges results in elevated susceptibility for numerous contaminant categories, including fecal coliforms.

The Scajaquada Drain (a portion of Scajaquada Creek that was covered and is currently directed in an underground pipe) is classified as an R4SBC wetland. The National Wetland Inventory Survey defines this wetland as:

- **System Riverine (R)**: The Riverine System includes all wetlands and deepwater habitats contained within a channel, with two exceptions: (1) wetlands dominated by trees, shrubs, persistent emergents, emergent mosses, or lichens, and (2) habitats with water containing ocean-derived salts of 0.5 ppt or greater. A channel is an open conduit either naturally or artificially created which periodically or continuously contains moving water, or which forms a connecting link between two bodies of standing water.
- **Subsystem Intermittent (4):** This Subsystem includes channels that contain flowing water only part of the year. When the water is not flowing, it may remain in isolated pools or surface water may be absent.
- **Class Streambed (SB):** Includes all wetlands contained within the Intermittent Subsystem of the Riverine System and all channels of the Estuarine System or of the Tidal Subsystem of the Riverine System that are completely dewatered at low tide.
- **Water Regime Seasonally Flooded (C):** Surface water is present for extended periods especially early in the growing season, but is absent by the end of the growing season in most years. The water table after flooding ceases is variable, extending from saturated to the surface to a water table well below the ground surface.

1.1.6 Environmental Justice Areas

The project sites fall within several Potential Environmental Justice Areas (PEJAs) and Disadvantaged Communities (DACs). The water quality in the Black Rock Canal, Scajaquada Creek and Niagara River impacts the population in the Ellicott, Lovejoy, and Masten Common Council District neighborhoods. All five sites have a minority population of approximately 81-100%, and nearly 34-38% of the population lives below poverty. Unity Island will also benefit from improved water quality as a result of the project, which is frequently utilized by the New American community and the Burmese community. A map of the PEJAs surrounding the project sites and along the affected waterbodies is given in **Figure 1-2**.

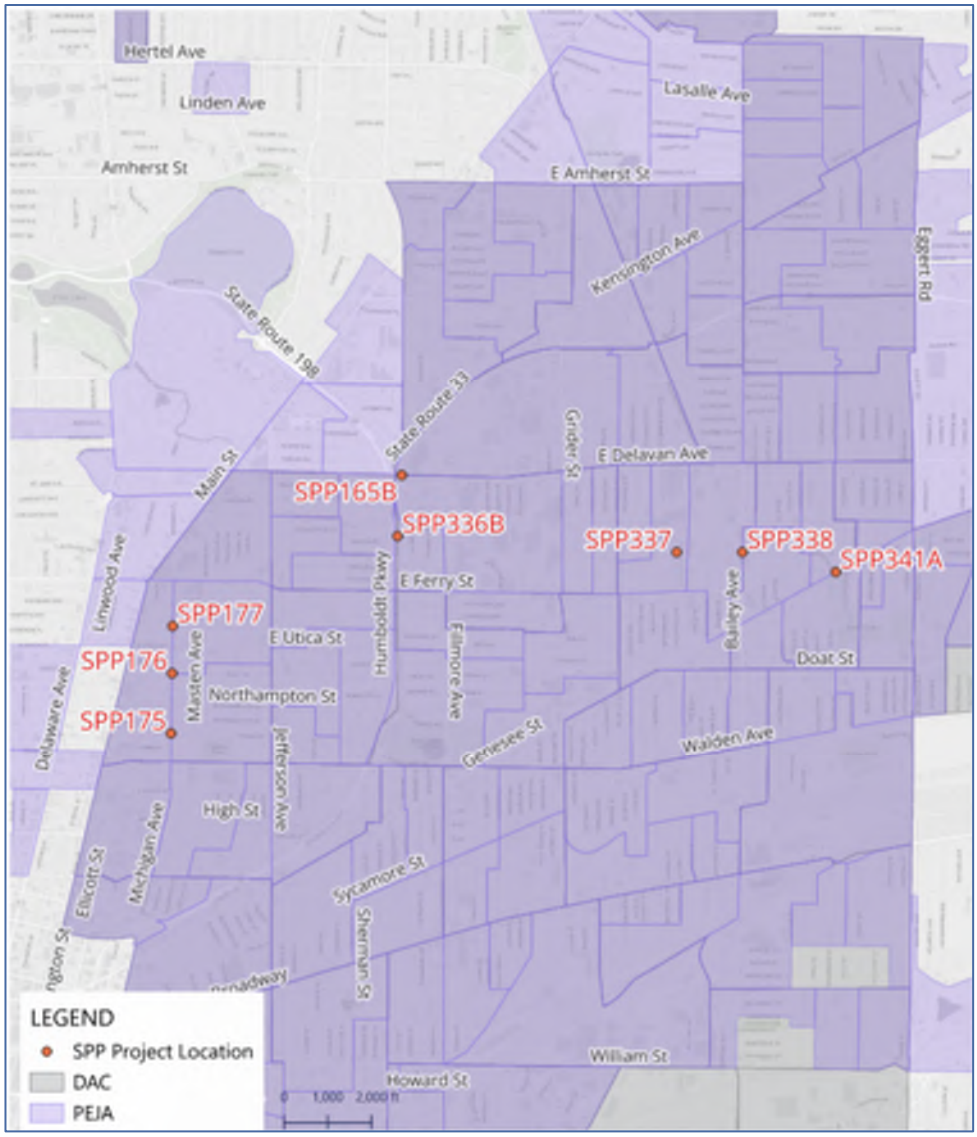


Figure 1-2: Potential Environmental Justice Areas

1.2 Ownership and Service Area

BSA's wastewater service area covers approximately 110 square miles including the City of Buffalo and parts of the Towns of Alden, Cheektowaga, Elma, Lancaster, Tonawanda, and West Seneca and the

Villages of Depew, Lancaster and Sloan, as well as Erie County Sewer District Numbers 1 and 4. Overall, the collection system serves a population of approximately 550,000 residents in 11 Western New York municipalities.

BSA's collection system is comprised of both combined and separate sewers and appurtenances, including manholes, drop inlets, siphons, and sewer patrol points (SPPs); outlying stations, including real-time control structures, pumping stations, gates, and additional facilities; and green infrastructure.

Ninety-three (93) percent of the collection system owned by BSA is a combined sanitary and stormwater system, but the City has separate sanitary and storm sewers in the remaining 7% of the system. The collection system includes:

- Approximately 850 miles of gravity sewers (790 miles of which are combined sewers)
- 52 combined sewer overflows (CSOs)
- 21,300 manholes
- 240+ Sewer Patrol Points (SPPs, otherwise known as regulators)

The SPPs were designed as part of the original combined sewer system and typically consist of a two-component chamber separated by a regulating weir. During dry weather conditions, the SPP conveys dry weather flow along one invert to the Bird Island WWTF; however, in wet weather, the SPP weir is overtopped, and excess flow is diverted through a secondary invert to either under-capacity parts of the collection system or directly to receiving water bodies to prevent basement flooding and protect the WWTF.

Gravity sewers and drains within the City range in size from 6-inch to 33-feet in diameter. Flow is conveyed through the collection system network to the Bird Island WWTF for treatment via two reinforced concrete intercepting sewers built in the 1930s: the North Interceptor and the South Interceptor. Major trunk sewers tributary to the North Interceptor are the Hertel Avenue sewers, Bird Avenue sewer, and the Scajaquada Tunnel Interceptor. The Babcock Street sewer, Swan Trunk sewer, Hamburg Street Pump Station, South Buffalo Pump Station, and the Kelly Island Pump Stations are all tributary to the South Interceptor.

As reported in BSA's Annual CSO Report, the annual CSO volume discharged in 2023 is 2,922 million gallons (MG) in a total of 49 overflow events. All CSO flow volumes and event frequencies reported to the NYSDEC represent the predicted combined sewer overflows only (excluding stormwater and stream inflows) utilizing the combined system model from BSA's approved LTCP.

1.2.1 Outside Users

There are seven (7) satellite systems connected to BSA's collection system. These satellite systems include:

- Erie County Sewer District #1
- Erie County Sewer District #4
- Town of Cheektowaga
- Village of Sloan
- West Seneca Town Sewer Districts #1, 2, 3, 4, 9 and 10
- West Seneca Town Sewer Districts #5, 13, and 14
- West Seneca Town Sewer District #15

BSA has wholesale agreements with the outside community systems and does not own, operate, or maintain the wastewater collection systems within these communities. Each outside community is charged by BSA for their share of allocatable costs. Allocatable costs include portions of administrative expenses, WWTF expenses, industrial waste expenses, costs to maintain trunk sewers to convey flows from

the City line to the WWTF, and debt service costs. The municipality or district is billed twice annually for services. Under the agreements with the outside satellite systems, each District or municipality is responsible for installing and maintaining meters at city lines.

As of 2023, there are approximately 108,155 residential connections as well as 1,306 commercial, industrial, and governmental connections to BSA's collection system. The BSA has pretreatment permits with 52 of the industrial users, who are labeled as Significant Industrial Users, or SIUs.

1.2.2 Population Trends and Growth

Historically, the City of Buffalo has experienced population decline, unlike the population growth seen in New York State as a whole, as shown in **Table 1-2**. From 2010 to 2020, the population grew by 6.52%. However, given the decades of negative population change, a more conservative growth factor of 3.36% was used for the City of Buffalo and 2.12% for the state of New York.

Table 1-2: Historical and Projected Population for the City of Buffalo and New York State

	City of Buffalo		New York State	
Year	Population	% Change	Population	% Change
1960[1]	532,759		16,782,304	
1970[1]	462,768	-13.14%	18,236,967	8.67%
1980[2]	357,870	- 22.67%	17,558,072	-3.72%
1990[2]	328,123	- 8.31%	17,990,455	2.46%
2000[3]	292,648	- 10.81%	18,976,457	5.48%
2010[4]	261,310	- 10.71%	19,378,102	2.12%
2020[4]	278,349	6.52%	20,201,249	4.25%
2030[5]	287,423	3.26%	20,630,324	2.12%
2040[5]	296,793	3.26%	21,068,512	2.12%
2050[5]	306,469	3.26%	21,516,007	2.12%
2060[5]	316,460	3.26%	21,973,007	2.12%

[1] Source: U.S. National Park Service, A Brief Chronology of the Development of the City of Buffalo (U.S. National Park Service) (nps.gov)
[2] Source: Boston University Arts & Sciences, Boston University (physics.bu.edu) Buffalo Population History
[3] Source: Office of the New York State Comptroller, Population Trends in New York State's Cities (ny.gov)
[4] Source: U.S. Census Bureau, P1: RACE - Census Bureau Table
[5] Source: Author calculated. To be conservative, projected values for 2030, 2040, 2050, and 2060 assume half of the percent change from the 2020 Census.

As the population of the City has grown, the number of Buffalo Sewer connections have also increased over the past 10 years. Per the most recent Comprehensive Annual Financial Report (CAFR), as of FYE 2023, there are approximately 108,155 residential connections and 1,306 commercial, industrial, and governmental connections to Buffalo Sewer's collection system. These connections increased by 4.4% and 132% respectively, from 2014 to 2023. **Figure 1-3**: Buffalo Sewer Connection from 2014-2023

shows the growth of connections since 2014.

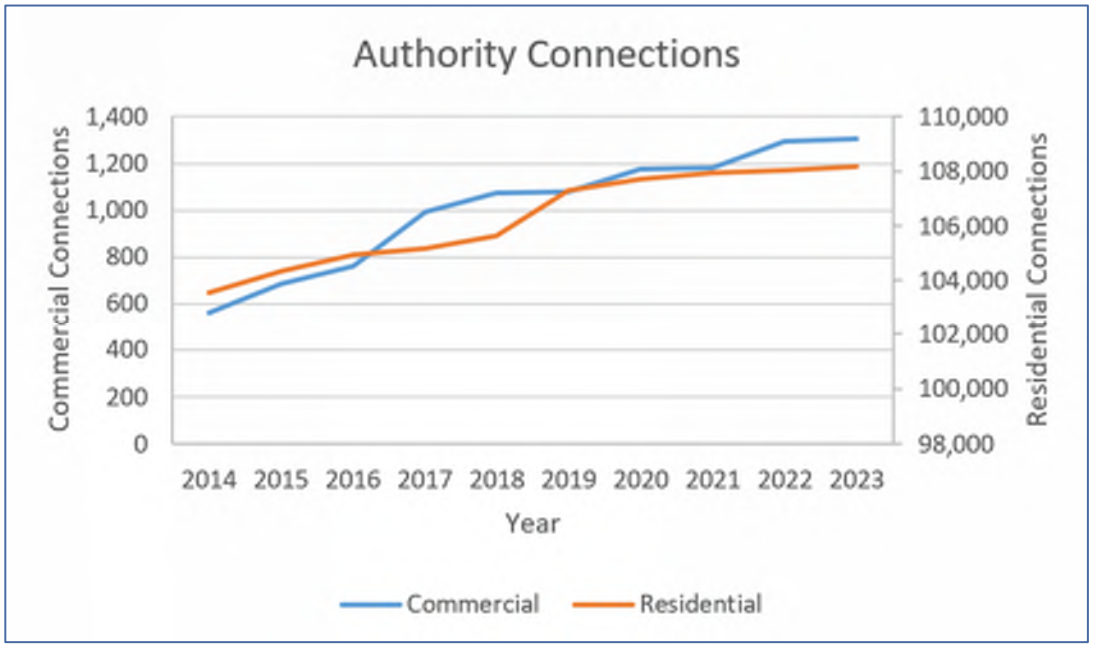


Figure 1-3: Buffalo Sewer Connection from 2014-2023

1.3 Existing Facilities and Present Condition

1.3.1 General Description, History of Major System Components, and Description of Unit Processes

The following describes the existing layout and configuration of the components of the SPPs associated with this project.

1.3.1.1 SPP337 – Colorado Avenue at Scajaquada Street

SPP337 is located near the intersection of Scajaquada Street and Colorado Avenue. Combined sewer flows are conveyed by gravity south along Colorado Avenue within a 9-ft x 5-ft combined sewer and enter the SPP chamber just to the north of the intersection of the two streets. Dry weather flows are conveyed via a 30-inch diameter drop shaft to the 7.5-ft diameter Scajaquada Tunnel. Wet weather flows overtop a weir in the chamber, continue along a 9-ft by 5-ft overflow sewer and are conveyed south along Colorado Avenue and ultimately to CSO-053 at the Scajaquada Drain. See **Figures 1-4** and **1-5**. The SPP weir is currently set at an elevation of 53.13 in the City's vertical datum.

The current capacity of the existing 30-inch diameter drop shaft to the Scajaquada Tunnel is 16.61 MGD. Flow drops from the combined sewer approximately 40.5-ft to the discharge invert at the Scajaquada Tunnel through the drop shaft. Any flow in excess of this flow overflows the weir and is conveyed to the Scajaquada Drain.

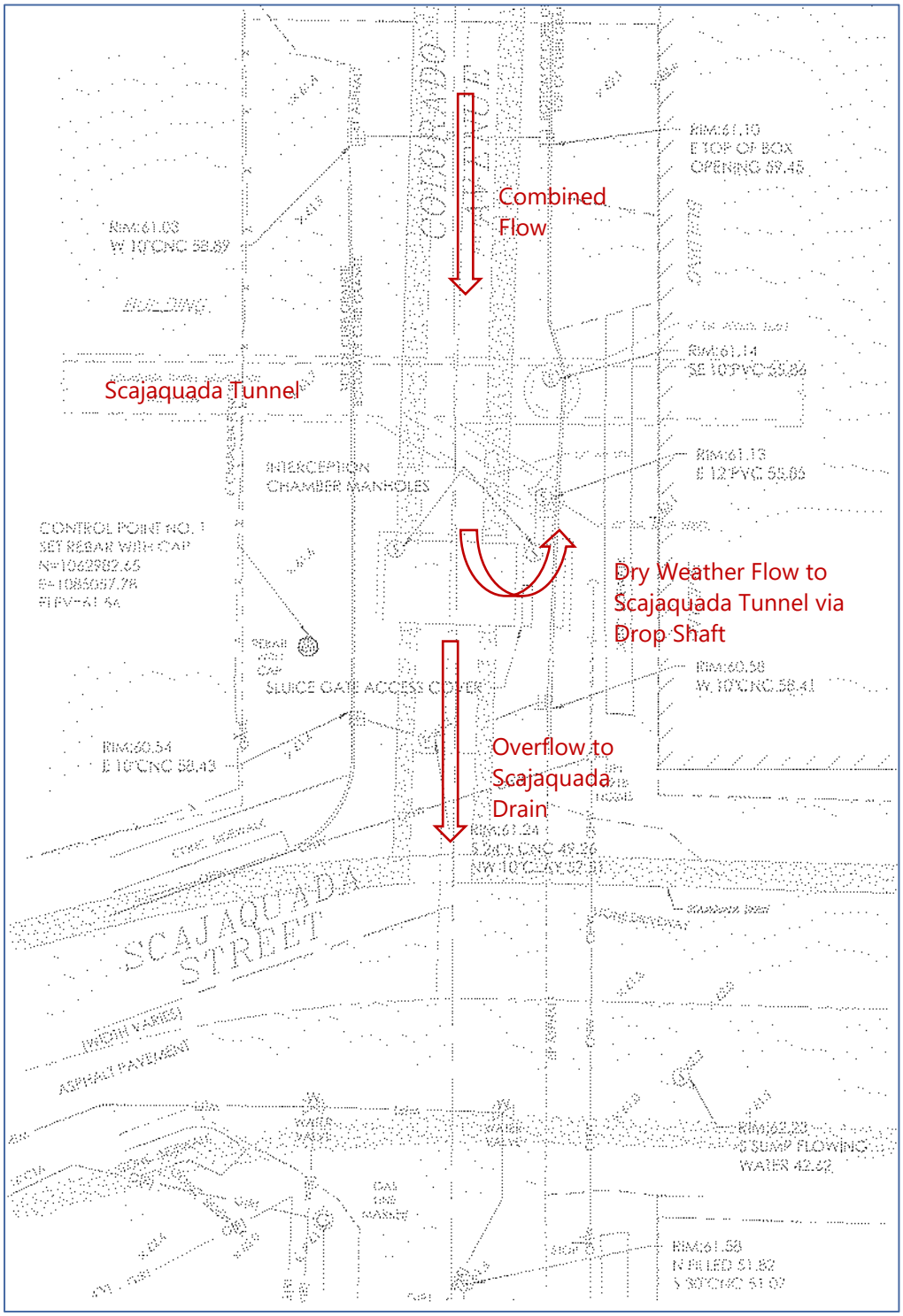

Combined Flow
Scajaquada Tunnel
Dry Weather Flow to Scajaquada Tunnel via Drop Shaft
Overflow to Scajaquada Drain
SCAJAQUADA STREET
INTERCEPTION CHAMBER MANHOLES
SLUICE GATE ACCESS COVER

Figure 1-4: Configuration of SPP 337 (Colorado Avenue at Scajaquada Street)

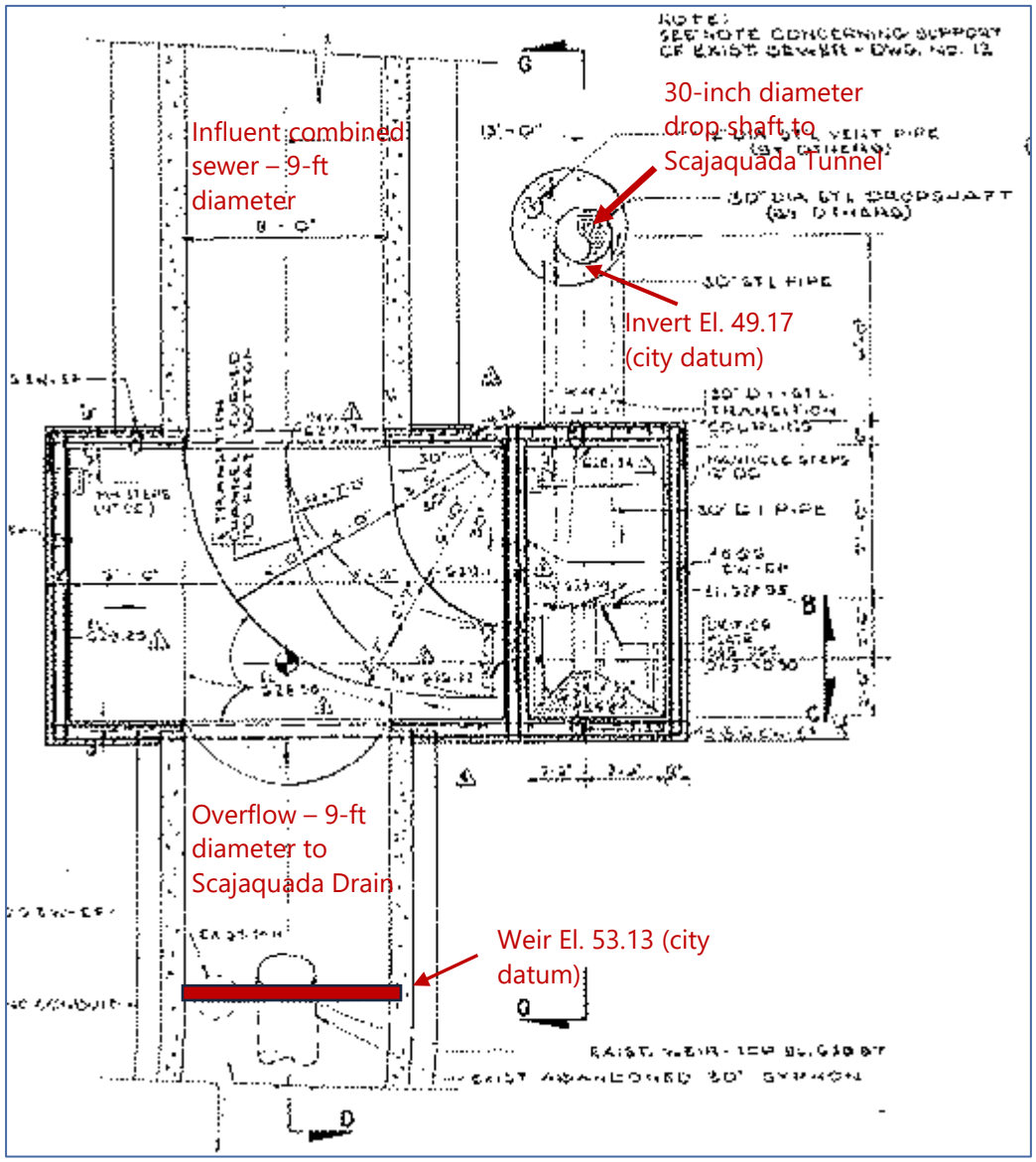


Figure 1-5: As-Built of Existing SPP 337

1.3.1.2 SPP338 - Scajaquada Street and Bailey Avenue

SPP338 is located south of the intersection of Scajaquada Street and Bailey Avenue. Combined flows are conveyed south along Bailey Avenue in a 14.5-ft combined sewer to SPP338. Under dry weather conditions, flow is directed to the west and is conveyed via a 42-inch diameter drop shaft to the Scajaquada Tunnel. In wet weather, when flow depths in the primary tunnel exceed approximately 1-ft of depth, excess flow is conveyed over a roughly 14.75-ft long and 38-in wide concrete weir and continues

south along Bailey Avenue and ultimately discharged through CSO-053 into the Scajaquada Drain (**Figure 6** and **Figure 1-7**). The weir in SPP 338 is currently set to an elevation of 53.41 ft (City datum).

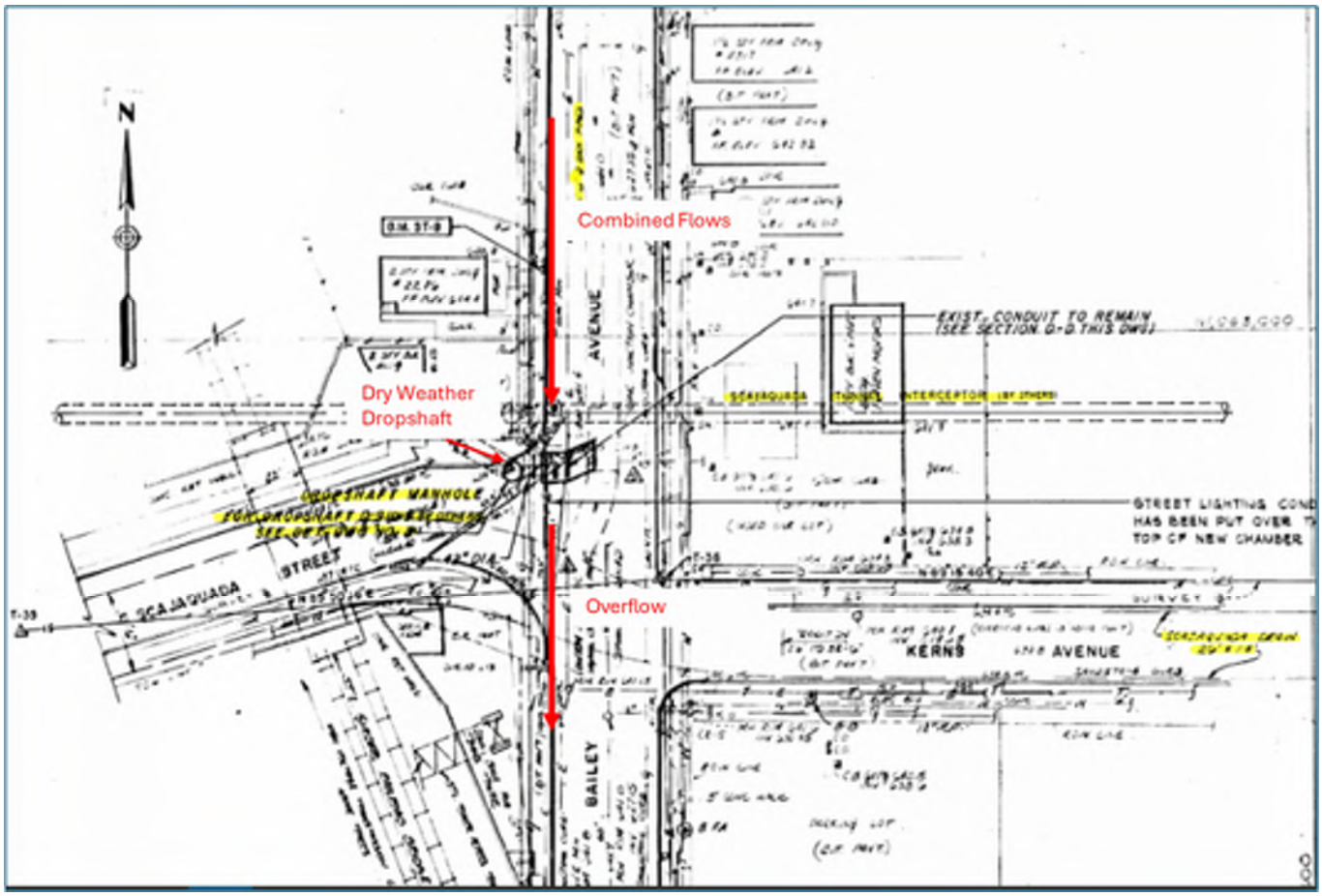


Figure 1-6: Configuration of SPP 338

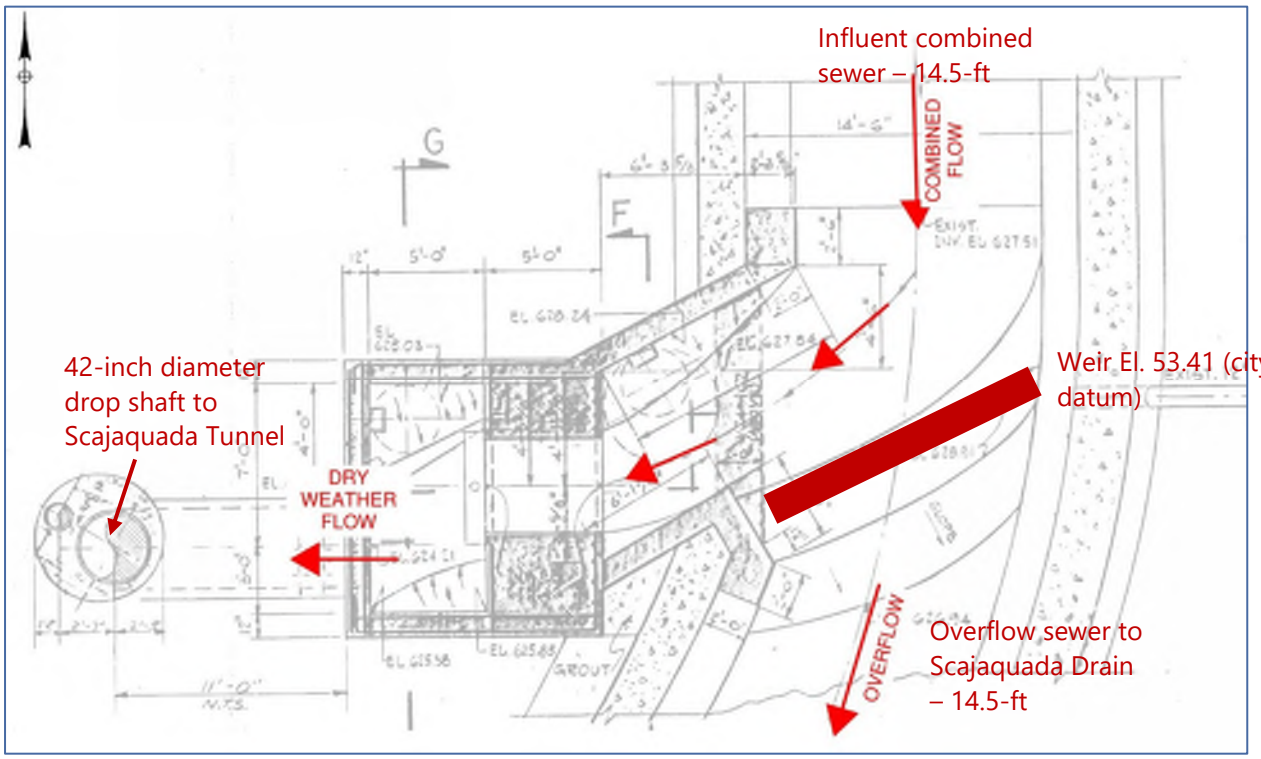


Figure 1-7: Plan of SPP 388

1.3.1.3 SPP341A – Genesee Street east of Kerns Avenue

SPP341A is located on Genesee Street east of Kerns Avenue. This SPP was formerly a double-chamber unit in which two combined sewers conveyed flow from the east into the chamber. At some point in the chamber's history, the 48-inch influent combined sewer and its associated overflow pipe was abandoned. However, the 69-inch diameter influent combined sewer has remained in service. Dry weather flows from the 69-inch influent sewers are directed into a 14-inch pipe through the chamber and exits the chamber via an 18-inch diameter pipe, and discharges through a 24-inch diameter drop shaft to the Scajaquada Tunnel. Wet weather flows pass over a weir at elevation 54.49 (City datum) and the existing 69-inch diameter overflow pipe that heads further southwest along Genesee Street towards CSO-053 into the Scajaquada Drain (**Figure 1-8** and **Figure 1-9**).

The current capacity of the existing 30-inch diameter drop shaft to the Scajaquada Tunnel is 4.43 MGD. Flow drops from the combined sewer approximately 38.5-ft to the discharge invert at the Scajaquada Tunnel through the drop shaft. Any flow in excess of this flow overflows the weir and is conveyed to the Scajaquada Drain.

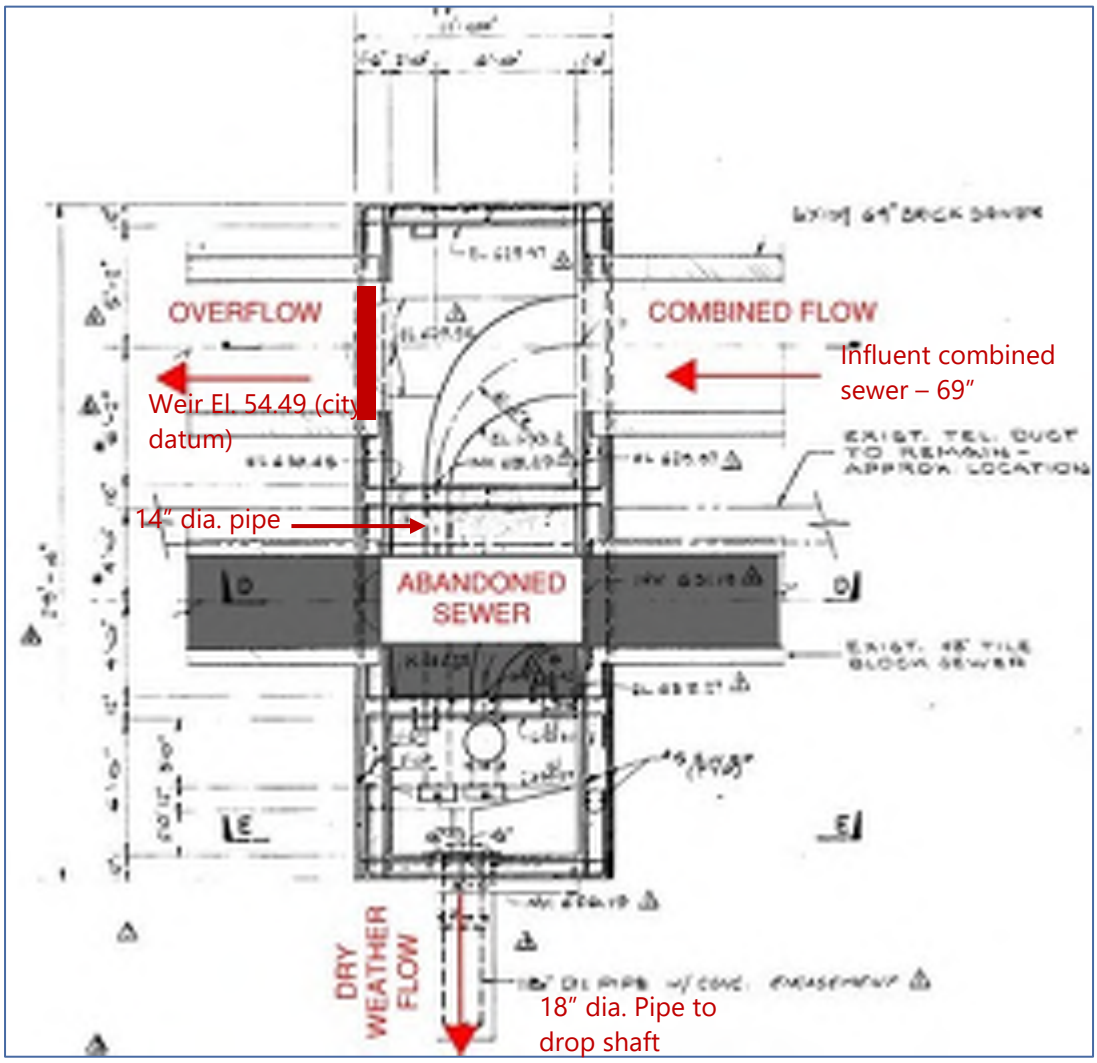


Figure 1-8:: Configuration of SPP 341A

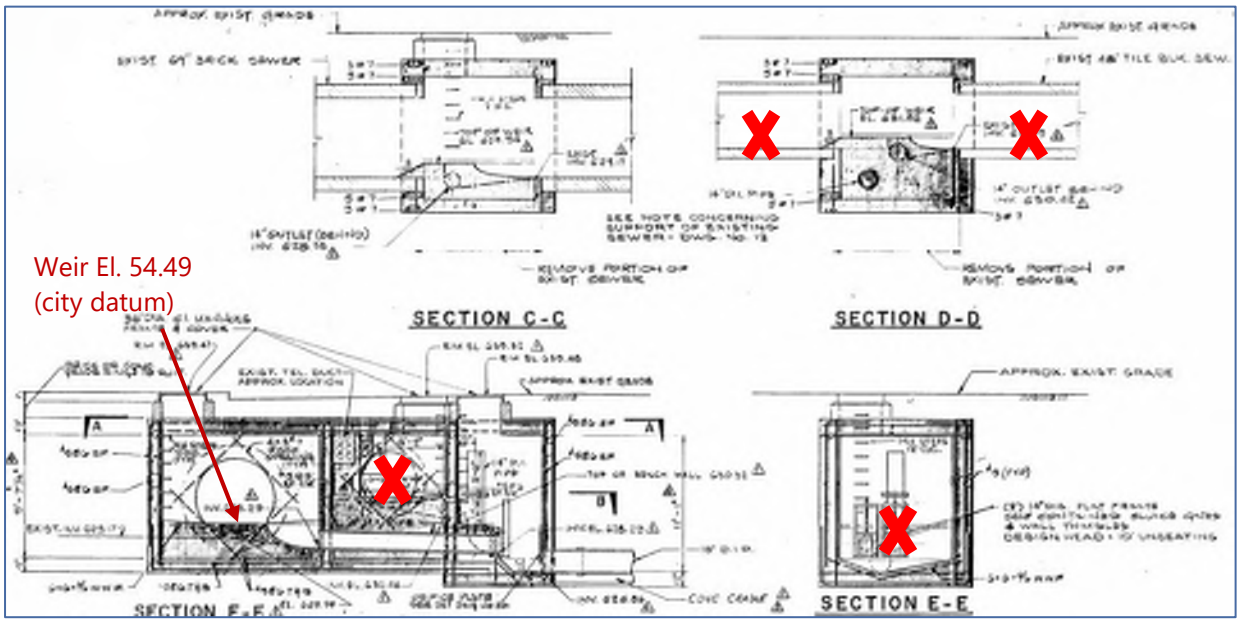


Figure 1-9: Sections through SPP 341A (Red X indicates abandoned sewer as noted in Figure 1-8)

1.3.1.4 SPP165B

SPP165B is located at the intersection of East Delavan Avenue and Humboldt Parkway. Combined sewer flows enter from the east along East Delavan Avenue through a 46-inch diameter brick sewer. Dry weather flow originally was directed through an 18-inch diameter orifice plate to a 24-inch diameter underflow pipe. The underflow pipe conveyed flow to another chamber at the intersection of the northbound lanes of Humboldt Parkway and Northland Avenue, where it was subsequently conveyed to the Scajaquada Tunnel. During wet weather events, flows exceeding the capacity of the existing underflow pipe overflows the weir within the SPP (elevation 53.71 in the City datum) and is conveyed in a southwesterly direction from the SPP in a 46-inch diameter overflow sewer towards CSO053 at the Scajaquada Drain (

Figure 1-10 and **Figure 1-11**).

However, since the issuance of the draft version of this PER, further field investigations have indicated that the 18-inch diameter orifice plate is no longer installed within this SPP. In addition, observation of recent closed caption television (CCTV) inspection performed by BSA of the 24-inch underflow pipe showed that there are no laterals along Humboldt that connect into this overflow pipe. Rather, there is a parallel 18-inch sewer that collects flow (both sanitary and stormwater) from the stretch of street along Humboldt Avenue between East Delavan and Northland Avenue and discharges to the collector chamber at Humboldt Avenue and Northland Avenue. Upon bringing this to the attention of the collection system modeler, the collection system model was revised to reflect the conditions observed in the field. With the model revisions, SPP 165B now is in compliance with the LTCP with no additional changes required at this location.

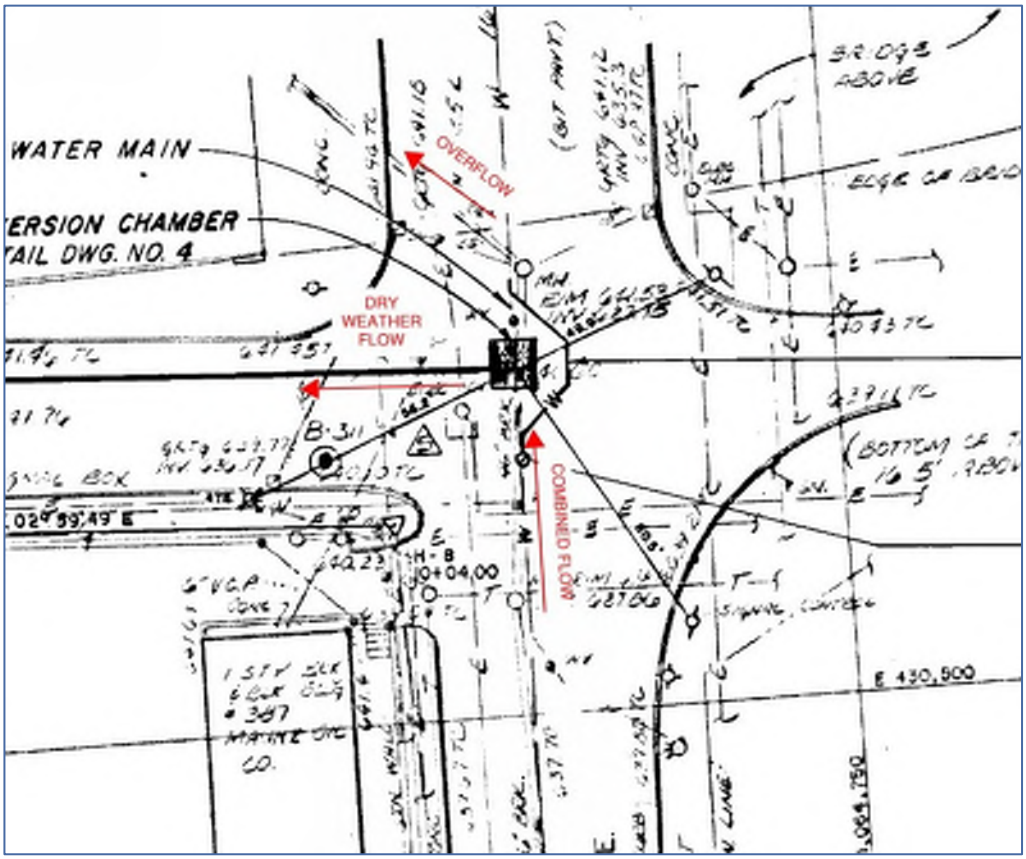


Figure 1-10: Configuration of SPP 165B

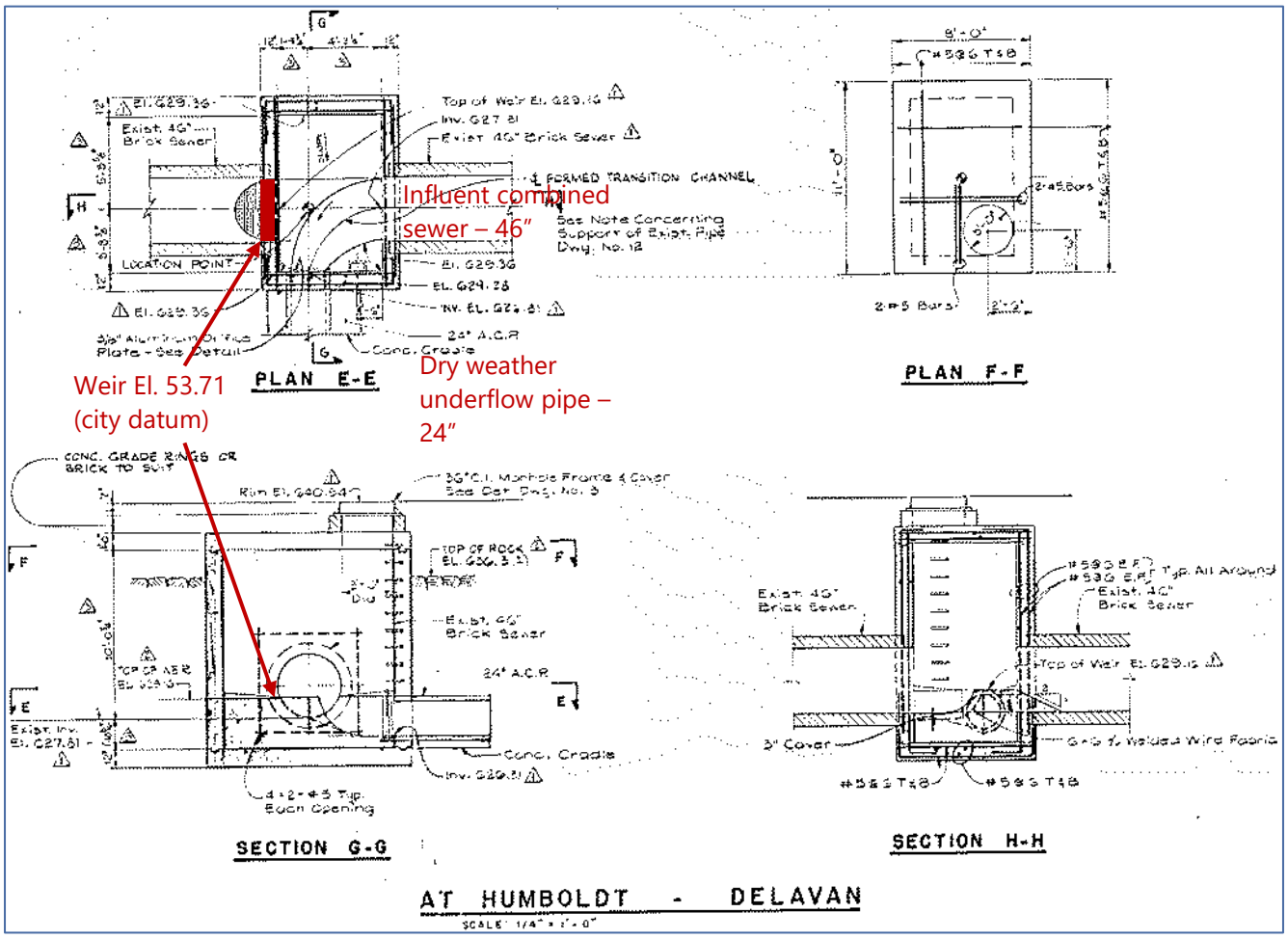


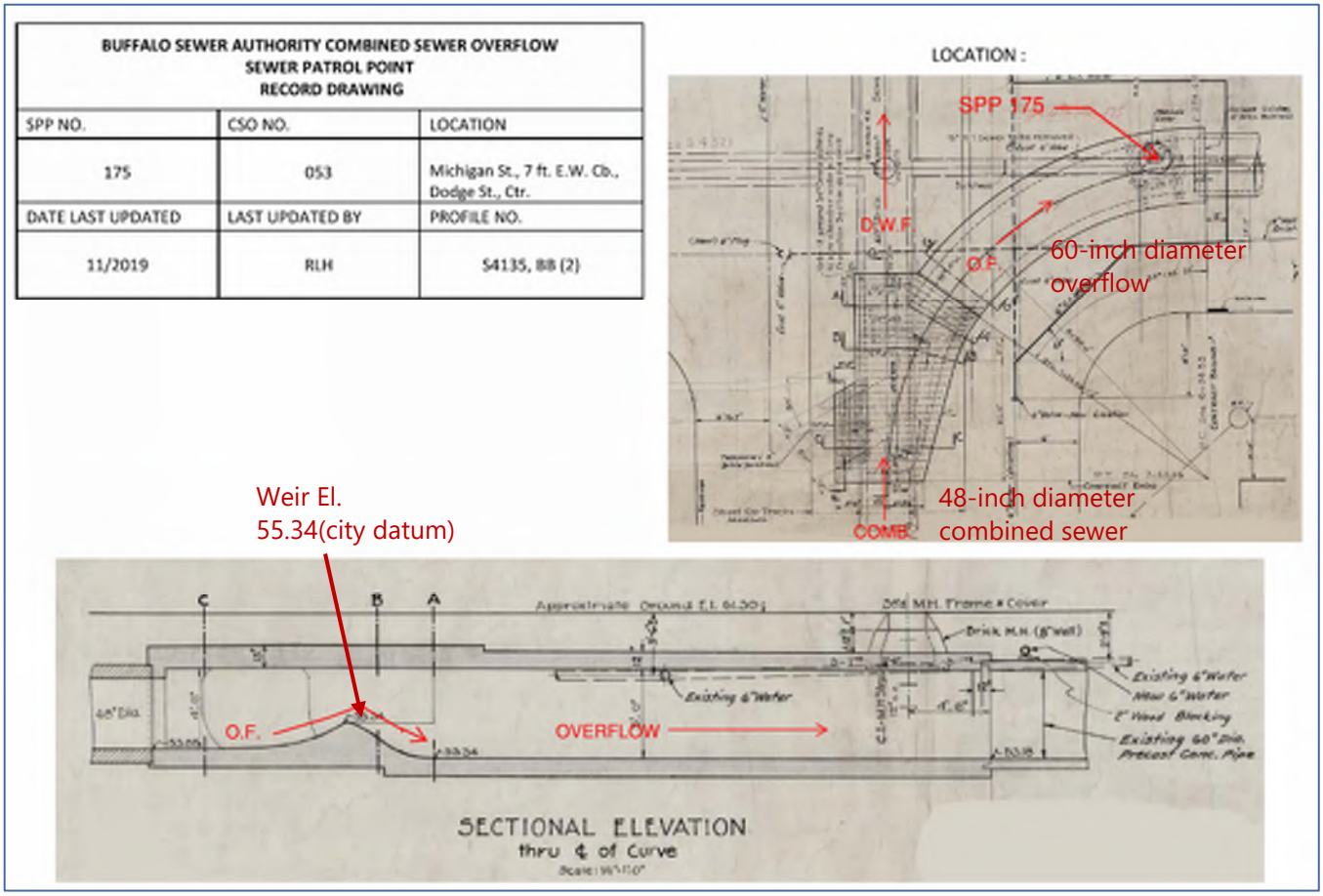
Figure 1-11: Plan and profile of SPP 165B

1.3.1.5 SPP175, 176, & 177 – Michigan Avenue

SPP175 (**Figure 1-12**), 176 (**Figure 1-13**), and 177 (**Figure 1-14**) are located at the intersection of Michigan Avenue with Dodge Street, Riley Street, and Glenwood Avenues, respectively. The three SPPs are similar in configuration with dry weather flow conveyed north straight through the chambers, while higher flows overtop a weir and are conveyed east in conduits along the respective cross streets.

SPP 175 receives flow from a 48-inch diameter combined sewer. At the SPP, dry weather flow continues north along the 48-inch sewer with wet weather flows topping the overflow weir at elevation 55.34 into a 60-inch diameter overflow sewer.

Both SPP 176 and SPP 177 have a configuration similar to SPP 177, but with existing weir elevations of 52.65 ft and 48.07 ft, respectively.



BUFFALO SEWER AUTHORITY COMBINED SEWER OVERFLOW
SEWER PATROL POINT
RECORD DRAWING

SPP NO.	CSO NO.	LOCATION
175	053	Michigan St., 7 ft. E.W. Cb., Dodge St., Ctr.
DATE LAST UPDATED	LAST UPDATED BY	PROFILE NO.
11/2019	RLH	S4135, 88 (2)

Figure 1-12: Plan and Profile of SPP 175

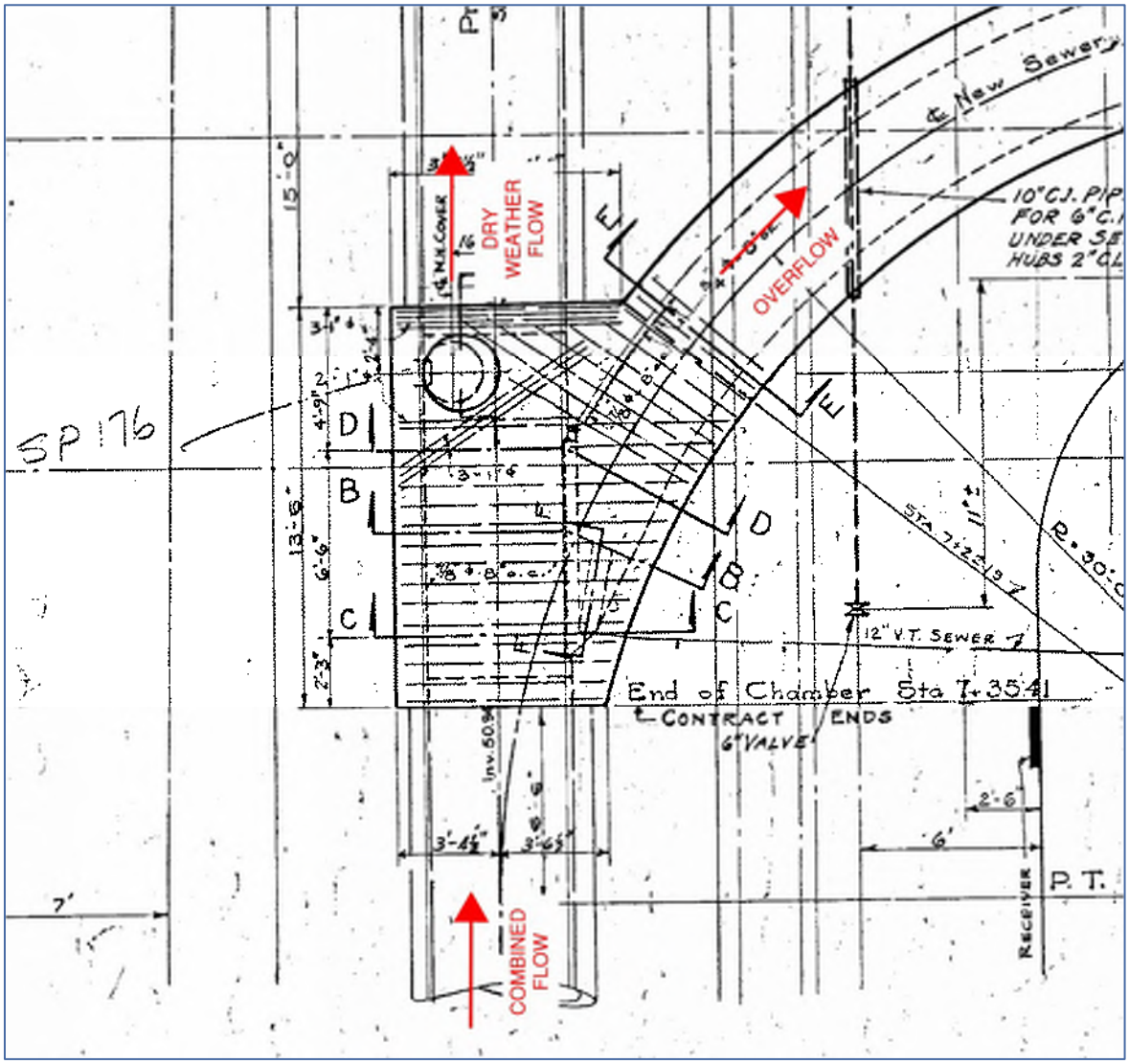


Figure 1-13: Plan and Profile of SPP 176

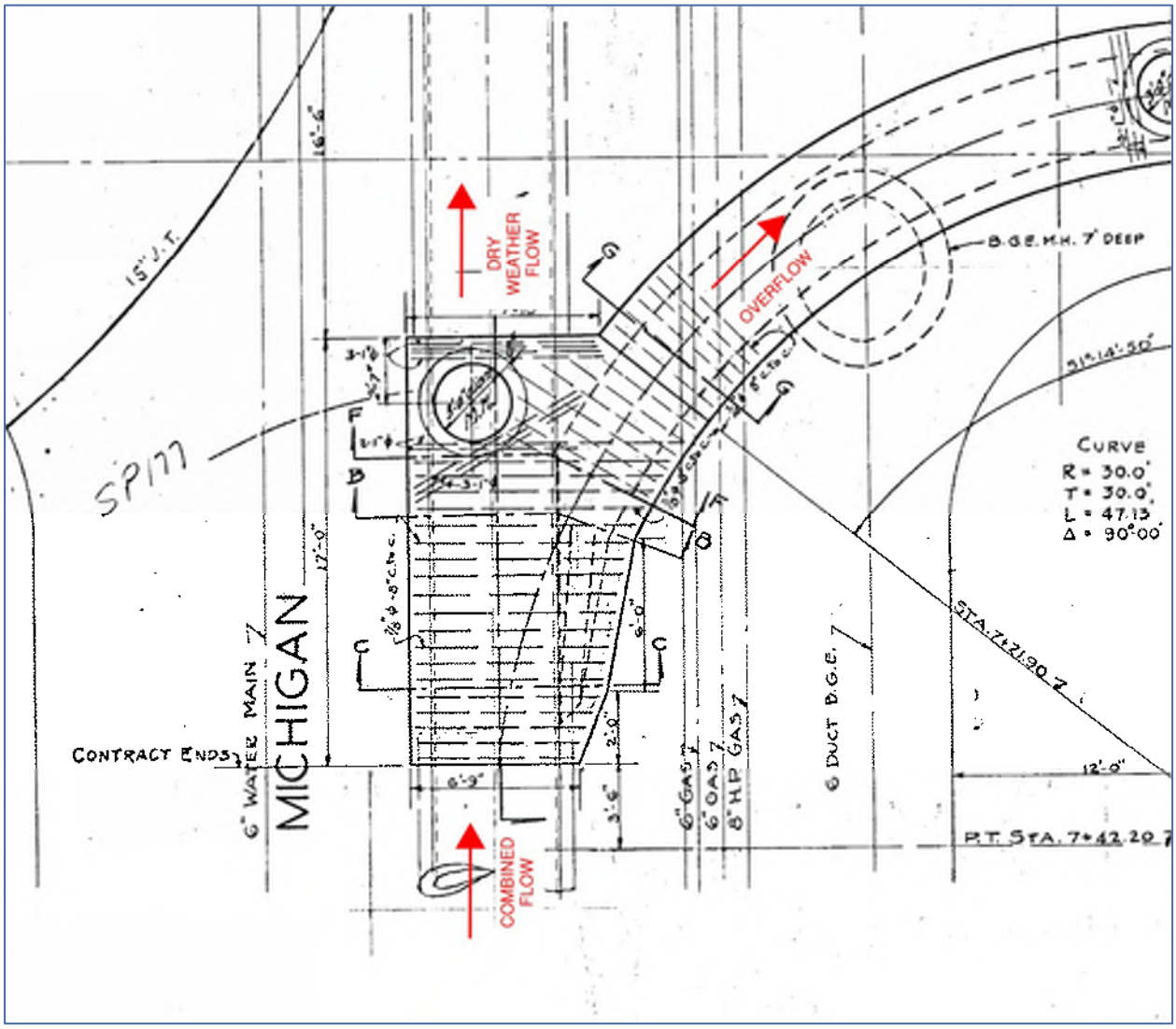


Figure 1-14: Plan and Profile of SPP 177

1.3.1.6 SPP 336B – Humboldt north of Sidney St. near Route 33 Pedestrian Bridge.

SPP 336B (**Figure 1-15**) is located along the northbound lanes of Humboldt Parkway, just north of the intersection with Sidney St, near the existing pedestrian bridge over Route 33.

SPP 336B receives flow from a 7-ft diameter combined sewer from the south. At the SPP, dry weather flow is conveyed west through a 36-inch gate and then north through a 36-inch diameter pipe and a 42-inch diameter dropshaft to the Scajaquada Tunnel. Under wet weather flow conditions, flow overtops the existing weir at elevation 39.78 (City datum) and the flow spills into the 7-ft diameter overflow sewer.

Field visits have indicated that this chamber is currently inaccessible as the cover has been welded shut. The design engineer will work with the BSA to gain access to this chamber as part of the design efforts.

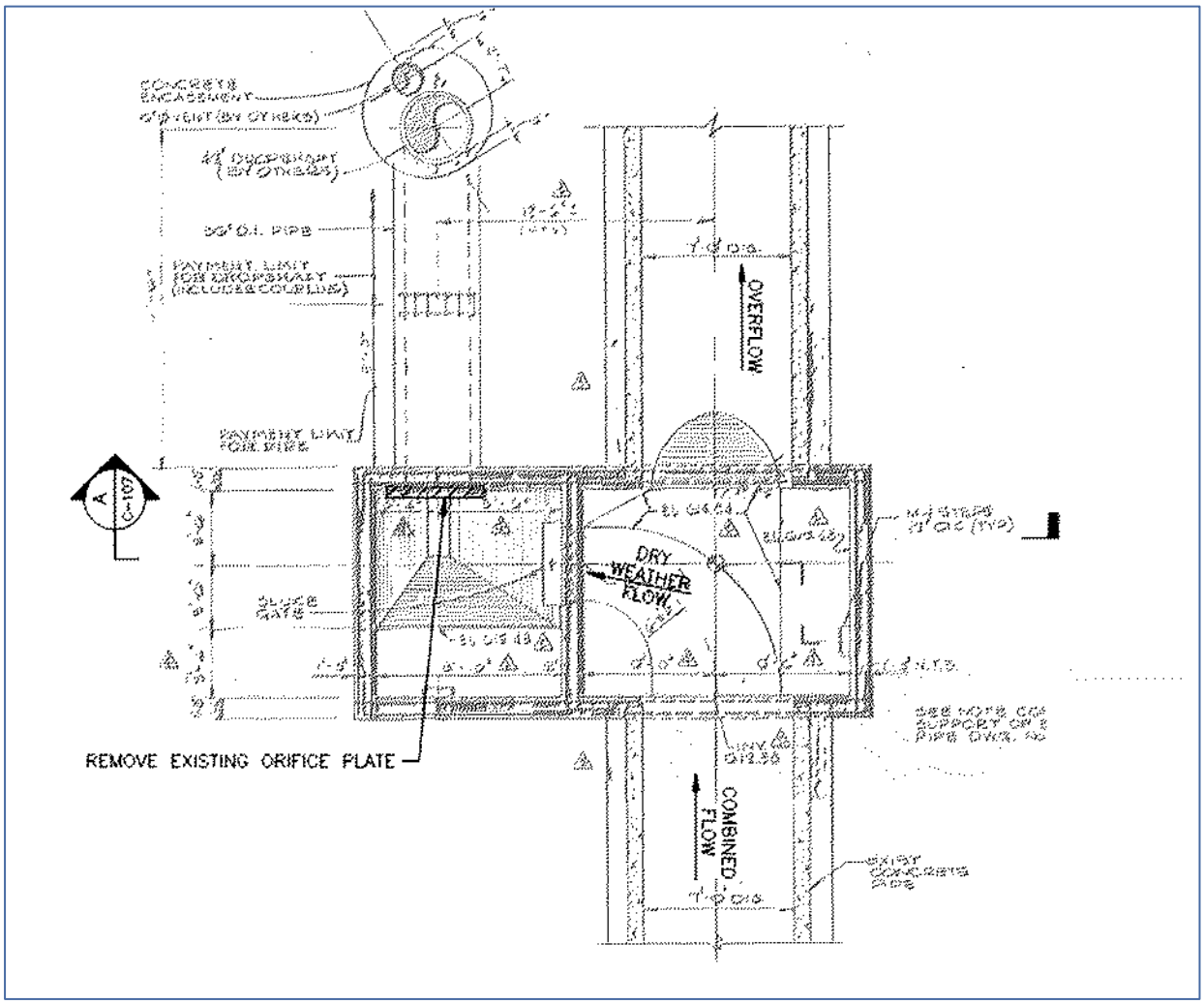


Figure 1-15: Plan of SPP 336B

1.3.2 Permit Conditions

The BSA is currently operating under State Pollution Discharge Elimination System (SPDES) Permit No. NY0028410, which had an effective date of July 1, 2014, and an expiration date of June 30, 2019. The permit was administratively extended past its expiration date and as a result, the BSA is currently still held to the 2014 permit.

All active CSOs are listed in the SPDES permit and are subject to the Nine Minimum Control Measures required under the USEPA's Combined Sewer Overflow policy. The projects in this report fall under NMC No. 2, Maximum Use of Collection System for Storage, which requires the BSA to optimize the collection system by operating and maintaining it to minimize the discharge of pollutants from CSOs. The permit indicates that "It is intended that the maximum amount of in-system storage capacity be used (without causing service backups) to minimize CSOs and convey the maximum amount of combined sewage to the treatment plant…" and "This shall be accomplished by an evaluation of the hydraulic capacity of the system, but should also include a continuous program of flushing or cleaning to prevent deposition of solids and the adjustment of regulators and weirs to maximize storage."

The BSA's LTCP was approved on March 18, 2014, and the USEPA subsequently issued a revised Administrative Order (CWA-02-2014-3033) which addressed implementation of the approved LTCP. Both the SPDES permit, and the Administrative Order are included in **Appendix H**.

1.3.3 Compliance Issues

As indicated in Section 1.1, compliance of the LTCP is determined by using the hydraulic collection system model and a typical year precipitation data set to determine the number of activations for each CSO and the estimated annual volume from each CSO in the typical precipitation year. During recalibration of the model, it was determined that some of the originally envisioned projects outlined in the LTCP were either not required, needed to be replaced and/or relocated, or needed to be resized. The projects outlined in this report involve those projects that were further optimized since the acceptance of the 2014 LTCP.

1.3.4 Existing Underflow and Drop Shaft Capacity

Table 1-3 below shows the current existing peak underflow for the two drop shafts that will need to be upsized.

Table 1-3: Summary of Existing Underflows for Targeted SPPS

SPP	Maximum Current Underflow (MGD)
CSO053_2.5 SPP337 Modification – Colorado Avenue at Scajaquada Street*	16.61*
CSO053_8 SPP341A Modification – Genesee Street near Kerns Avenue*	4.43*

Notes: *maximum capacity per the Scajaquada Tunnel Interceptor Facility Plan, Step 1, Section VII, The Selected Plan, Leonard S. Wegman Co. Inc., February 1976

1.3.5 Existing Energy Consumption

All sites considered under this project do not consume any electricity. All improvements are to existing fixed weirs or upsizing of underflow pipes and do not require any equipment that require electricity.

1.4 Definition of the Problem

As indicated previously in Section 1.1, the updated and re-calibrated LTCP model suggested that some projects originally envisioned in the 2014 LTCP are no longer feasible in that they are no longer needed or that the originally envisioned projects in the LTCP, if implemented, would no longer meet the target activations for the individual waterbodies. In addition, it was recognized that the sizing, location, or scope of proposed projects could be further modified based on the performance of previously implemented projects and the corresponding model results in the typical year to meet target activations. The optimization efforts conducted in 2022 and 2023 provided a Selected Alternative, which is comprised of several projects that seek to achieve target activation compliance. These projects discussed herein are several of the projects included within the Selected Alternatives.

The Level of Control required per the LTCP is 4 activations per year for Scajaquada Creek. While these projects alone will not bring the number of activations into full compliance for CSO-053, they are part of a larger effort that is currently in progress to achieve full compliance.

Table 1-4 shows the number of activations and CSO volumes under current conditions. As can be observed from the table, CSO-053 currently is projected to activate a total of 36 times for a total of 206.1 million gallons per year with most of the activations and volume occurring at SPP336B and lesser volumes

and number of activations at the other SPPs. As indicated previously in Section 1.3.1.4, with the change in existing conditions and the collection system model at SPP165B, a project at this location is no longer necessary as the expected number of overflows is now estimated to be only 1 per year with a minimum volume of 0.1 MG.

Table 1-4: Current Number of Overflow Activations and Volumes

Impacted SPP	Baseline	
	OF Vol. (MG)	OF Events
165B	0.1	1
175	1.3	5
176	0	0
177	0	0
336B	92.3	36
337	26.2	19
338	33.7	19
340	41.6	16
341A	10.9	14
TOTAL	**206.1**	**36**

It is also noted that any improvements at SPP175 would only need to reduce the expected annual number of activations from 5 overflow events by one event to achieve the target of four activations in the typical year. While the focus is on reducing overflows at SPP175, any modifications here would need to consider potential modifications to SPP176 and SPP177 to prevent any overflows from occurring further downstream.

The Sidney OLS project (currently being revised from an OLS project to a real-time control project is necessary to reduce the amount of overflows at SPP336B. As indicated previously, only modifications at the SPP itself are discussed in this report as the Sidney RTC project is the subject of a separate report and will be completed as a separate project by the BSA.

Likewise, the Edison-Martha OLS project is a separate project from the projects discussed herein and is required at SPP 340. A separate PER has been submitted that discusses that project in further detail.

1.5 Financial Status

The BSA currently receives revenue from the following (see **Table 1-5**):

- Sewer rents
- Direct payments from outside users
- Industrial waste disposal

Table 1-5: Comparison of Revenues (Actual and Budgeted) since 2021

	2021-2022 Actual	2022-2023 Actual	2023-2024 Original	2024-2025 Proposed
Operating Revenues				
Assessed sewer rents	12,052,518	12,106,288	19,852,600	24,957,600
Metered water use sewer rents	24,716,758	24,708,243	24,460,000	25,136,900
Outside Contracts	23,414,326	12,665,958	13,750,000	15,000,000
Industrial Waste Charges	4,505,575	5,133,775	3,525,000	3,875,000
Miscellaneous Revenue	31,097,051	18,036,621	4,691,400	1,305,500
Non-Operating Revenues				
Interest Charges	597,601	858,886	711,000	615,000
Interest Earnings	148,078	3,759,557	2,760,000	3,510,000
Total Revenues	96,531,907	77,269,329	69,750,000	74,400,000

Note: Values are rounded to the nearest dollar. For more detailed numbers, see the BSA's 2024-2025 Budget at 2024-2025-BSA-Budget-1.pdf (buffalosewer.org)

The Levy of Sewer Rents based on assessed value will be $24,900,000 for the 2024-2025 Budget. This represents the amount of Sewer Rent that the Buffalo Sewer Authority will collect from all real property in the City of Buffalo except those properties exempt by law. This amount, when spread over the total estimated assessment for sewer purposes from the Department of Assessment, will result in an annual sewer rent of approximately $1.98 for each $1,000 of assessed valuation.

Any further change in the assessed value of taxable properties will require an adjustment to the assessment sewer rent to maintain this levy. If the final assessed value as determined by the City Department of Assessment increases or decreases, the sewer rent per $1,000 assessment will correspondingly increase or decrease by $.00015673 for each $1,000,000 change in assessed value.

All sewer rents based on water use will be subject to a three percent adjustment to reflect consumer price indices. Flat rate sewer rents continue to be charged based on property characteristics (i.e., number of stories, front footage, etc.). Sewer rent meter charges will be assessed at a rate of $11.42 per 1,000 cubic feet. All flat and meter accounts will be assessed a capacity/drainage charge at a minimum of $6.18 per month.

In the 2024-2025 budget, the budgeted appropriations for various expenditures are as shown in **Table 1-6**.

Table 1-6: Summary of Appropriations in BSA's 2024-2025 Budget

Appropriation Category	2024-2025 Budgeted Appropriation
Personnel Services	17,731,441
Utility Services	5,609,810
Fringe Benefits	12,296,500
Debt Service and Reserves	10,360,256
Purchase of Services	17,681,274
Materials and Supplies	8,343,957
Capital Outlay	1,500,960
Insurance and Financial Charges	649,500
Professional Development	221,302
TOTAL	74,400,000

In 2024-2025, the BSA anticipates debt payments of $8,610,256, which is a slight increase over the 2023-2024 budgeted amount of $8,044,007. In 2023, the BSA had ~$21.5 million in net revenue available for debt service, with estimated principal of ~$3.3 million, interest of ~$2.9 million, for a total debt service coverage of 3.43 (from BSA's Annual Comprehensive Financial Report for Fiscal Year ended June 30, 2023).

The Median Household Income (MHI) for the City of Buffalo is $46,184 in 2022 dollars, while the NYS MHI is $81,386 in 2022 dollars as per the data at https://www.census.gov/quickfacts/fact/table/NY,buffalocitynewyork/INC110222. Therefore, the City of Buffalo MHI is only 57% of the New York State MHI.

SECTION 2 ALTERNATIVES ANALYSIS

The following sections describe the alternatives evaluated for addressing the CSO overflows at CSO-053. Alternatives were evaluated for compliance with the LTCP by inputting them into the hydraulic collection system model. If an alternative was deemed to not meet compliance or was deemed otherwise infeasible, the alternative was adjusted within the model to try and achieve compliance. This iterative process was used to arrive at the recommended alternative.

Several alternatives were evaluated to address the annual overflow volume and activations tributary to CSO-053, which is the Scajaquada Drain outlet to Scajaquada Creek in Forest Lawn Cemetery. The combined sewer system in this tributary area collects flow from the neighborhoods east of this location to the City border with the Town of Cheektowaga, with most of the tributary area located north of Fougeron Street and south of Kensington Expressway (Route 33). Alternatives considered for achieving the targeted number of four activations to Scajaquada Creek included the following:

- Alternative 1 - Do Nothing (Status Quo Alternative)
- Alternative 2 - Green Infrastructure
- Alternative 3 – Partial Sewer Separation
- Alternative 4 - Deep Tunnel Storage
- Alternative 5 - SPP Modifications and Off-Line Storage

Each alternative was evaluated by Arcadis in BSA's collection system model. Results were then used by the various design consultants to develop the most cost-effective and optimal strategy for achieving the target activations for the area tributary to CSO-053. The following SPPs are upstream of CSO-053 and were considered in the alternative evaluation:

- SPP 165B – at the intersection of East Delavan Avenue and Humboldt Parkway
- SPP 175 – at the intersection of Michigan Avenue and Dodge Street
- SPP 176 – at the intersection of Michigan Avenue and Riley Street
- SPP 177 – at the intersection of Michigan Avenue and Glenwood Avenue
- SPP 336A – on northbound Humboldt Parkway north of the pedestrian bridge north of Sidney Street
- SPP 336B – on northbound Humboldt Parkway north of Sidney Street
- SPP 337 – at the intersection of Colorado Avenue with Scajaquada Street
- SPP 338 – near the intersection of Bailey Avenue near Kerns Avenue and Scajaquada Street
- SPP 340 – on Hagen Street north of Kerns Avenue
- SPP 341A – Genesee Street just east of the intersection with Kerns Avenue

2.1 Alternative 1 - Do Nothing (Status Quo Alternative)

Under this alternative, no improvements would be made to any of the SPPs tributary to CSO-053, other than projects that may have already been completed, or are currently in design, including:

- Bailey and Minnesota SPP254 Modification – In this project, the overflow weir at SPP 254 has been replaced and the new weir elevation is approximately 82.90 ft (City datum)
- East Amherst and Bailey RTC Project - This project includes adding as RTC at SPP255 (Bailey Avenue and East Amherst Street) as well as improving the efficiency of Amherst Quarry dewatering operations to reduce overflows. The intended operation of the RTC at this location would be to convey more flow from the North Bailey sewer to the Amherst Quarry when there is

available storage capacity, and the Amherst Quarry pump station would dewater the quarry when the risk for overflow at the Scajaquada CSO-053 SPPs has passed following a wet weather event. This project includes updating sensors at Amherst Quarry and adding instrumentation at SPP338 (Bailey Ave & Kerns Ave).

Table 2-1 shows the number of overflows and overflow volumes projected at each SPP, using the typical precipitation year used in the approved LTCP. While a few of the SPPs achieve the target number of activations of four within this tributary area, several do not. Therefore, improvements need to be made to reduce the number of activations at the SPPs that are currently not within compliance down to four. As a result, Alternative 1 is not a viable alternative.

Table 2-1: Status Quo Alternative - Projected Number of Overflows and Associated Overflow Volumes

SPP	Overflow Vol. (MG)	No. of Overflow Events
165B	0.1	1
175	1.3	5
176	0	0
177	0	0
336B	92.3	36
337	26.2	19
338	33.7	19
340	41.6	16
341A	10.9	14
TOTAL	**206.1**	**36**

2.2 Alternative 2 - Green Infrastructure

Green infrastructure was considered as an alternative for achieving the targeted number of activations. BSA has been passively implementing green infrastructure by accounting for reduction in impervious area as redevelopment occurs. Usually as abandoned buildings are demolished and lots are cleared, the reduction in impervious area is accounted for as potential green infrastructure within the sewershed. Annually, the model is updated with new impervious and pervious areas for each sub-sewershed based on the properties addressed.

Various model runs were performed that implemented different levels of control, in terms of acreage. For the purposes of this alternative evaluation, it was assumed that the green infrastructure to be implemented would be permeable pavement, as the reduction in impervious area that BSA is achieving with lot demolitions is not enough to significantly impact the number of CSO activations. **Table 2-2** summarizes the acreage that would need to be controlled at different control levels ranging from 20% to 100% for each SPP or group of SPPs that are tributary to CSO-053.

Table 2-2: Summary of Area to be Controlled via Green Infrastructure

Impacted SPP	Total Tributary Area Controllable by Permeable Pavement (ac)	20% Control (ac)	40% Control (ac)	60% Control (ac)	80% Control (ac)	100% Control (ac)
165B	42.4	8.5	17	25.4	33.9	42.4
175	205.2	41	82.1	123.1	164.2	205.2
176						
177						
336B	603.5	120.7	241.4	362.1	482.8	603.5
337	332.8	66.6	133.1	199.7	266.2	332.8
338	756.4	151.3	302.6	453.8	605.1	756.4
340	293.8	58.8	117.5	176.3	235	293.8
341A	89.9	18	36	53.9	71.9	89.9

Based on data obtained through collection system model runs using the acreages shown in **Table 2-2**, the levels of green infrastructure required varies, as shown in **Tables 2-3 and 2-4.** It is particularly noted that even with the implementation of GI within the CSO-053 to control 100% of the tributary area not currently connected to storm sewers, that the projected number of activations will still exceed the targeted number of activations of 4. Therefore, even if GI were implemented, other non-GI modifications would have to be implemented to achieve compliance.

Table 2-3: Summary of Expected Overflows at Different Levels of Control through GI

SPP	20% Perm. Pavement		40% Perm. Pavement		60% Perm. Pavement		80% Perm. Pavement		100% Perm. Pavement	
	OF Vol. (MG)	OF Events	OF Vol. (MG)	OF Events	OF Vol. (MG)	OF Events	OF Vol. (MG)	OF Events	OF Vol. (MG)	OF Events
165B	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1
175	1.1	5	0.8	4	0.6	3	0.5	3	0.3	2
176	0	0	0	0	0	0	0	0	0	0
177	0	0	0	0	0	0	0	0	0	0
336B	77.4	30	64.3	25	52.9	21	43.5	14	35.8	12
337	21.8	16	17.8	16	14.1	14	11	14	8.2	11
338	28.4	15	23.6	14	19.5	11	15.9	10	12.6	9

SPP	20% Perm. Pavement		40% Perm. Pavement		60% Perm. Pavement		80% Perm. Pavement		100% Perm. Pavement	
	OF Vol. (MG)	OF Events	OF Vol. (MG)	OF Events	OF Vol. (MG)	OF Events	OF Vol. (MG)	OF Events	OF Vol. (MG)	OF Events
340	36	14	31.7	12	27.6	10	25.7	10	22.8	9
341A	6.9	11	5.3	9	4.1	8	3	6	2.2	5
	171.7	**30**	**143.6**	**25**	**118.9**	**21**	**99.7**	**14**	**82**	**12**

Note: **Shaded cells** denote where the number of activations have been met (lower than 4 activations per year).

Table 2-4: Summary of Required GI Levels per SPP or group of SPPs

Impacted SPP	Percent Control Required through GI	Notes
165B	0%	Target already achieved with 1 activation predicted
175	40%	40% GI will reduce activations from 5 to 4 at this SPP, which will meet the targeted number of activations
176		
177		
336B	100%	Even with 100% implementation of GI, the number of activations will be reduced from 36 to 12, but will still not achieve the targeted number of activations of 4.
337	100%	
338	100%	
340	100%	
341A	100%	

In addition, it is highly improbable that 100% of the area tributary to SPPs 336B, 337, 338, 340, and 341A could be realistically addressed with permeable pavement. Traditionally the City of Buffalo has incorporated permeable pavement mainly onto lesser used streets and parking lanes, with traditional pavement used for high-service traffic lanes. In addition, the freeze-thaw climate within Buffalo's winters often requires a more robust pavement system that permeable pavement that can better withstand the live loads associated with heavier trucks and equipment. Even application of a 40% level of GI control for SPP 175 would still require implementation to control 81 acres, which may be difficult to achieve.

While not achieving the target number of activations for five SPPs, implementation of GI as indicated in **Tables 2-3 and 2-4** would reduce the overflow volumes from approximately 206 MG to 82 MG in the typical precipitation year. Therefore, use of GI as the main mechanism for achieving compliance was not considered further. However, the BSA continues to evaluate opportunities for GI implementation as a supplemental measure, as may be appropriate.

2.3 Alternative 3 – Partial Sewer Separation

The partial sewer separation alternative would involve the installation of new storm sewers and connections to existing drainage inlets and roof drains within the CSO-053 tributary area to relieve the existing sewers that currently convey such flow to the treatment plant. The existing combined sewers will be converted to sanitary-only sewers.

This alternative is best modeled assuming certain percentages of storm runoff would be redirected from the existing combined sewers to dedicated storm sewers. For the purposes of this evaluation, model runs were configured to redirect 20%, 40%, 60%, 80% and 100% of projected runoff to separate storm sewers, where 100% assumes that all sewers within the CSO-053 tributary area are separated into dedicated sanitary and storm sewers. The same acreage as shown in **Table 2-2** for green infrastructure applies to the acreage required for the redirection of combined flows into dedicated storm sewers and away from sanitary-only sewers. The results of the model runs for the impacted SPPs are shown in **Table 2-5**.

Table 2-5: Summary of Overflow Volumes and Activations at Various Levels of Redirection of Flows to a Separate Storm System

SPP	20% Street Redirection		40% Street Redirection		60% Street Redirection		80% Street Redirection		100% Street Redirection	
	OF Vol. (MG)	OF #	OF Vol. (MG)	OF #	OF Vol. (MG)	OF #	OF Vol. (MG)	OF #	OF Vol. (MG)	OF #
165B	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1
175	1.1	5	0.9	4	0.6	3	0.5	3	0.2	1
176	0	0	0	0	0	0	0	0	0	0
177	0	0	0	0	0	0	0	0	0	0
336B	66.8	30	44.2	20	25.7	15	10.6	13	2.6	5
337	20.7	16	15.8	16	11.4	15	7.6	12	5.5	11
338	23.6	15	14.7	13	7	8	2.2	4	0	0
340	31.9	13	20.6	10	12.4	8	7	6	2.8	4
341A	5.9	11	3.9	9	2.2	6	1.2	4	0.5	3
	150.1	30	100.2	20	59.4	15	29.2	13	11.7	11

Note: **Shaded cells** denote where the number of activations have been met (lower than 4 activations per year).

Based on the results of the BSA collection system model runs, 100 percent sewer separation in some tributary areas do not comply with the annual target activations requirement (i.e., 4 activations), as activations at 336B and 337 still resulted in a projected number of overflows in the typical year of 5 and 11, respectively. However, target activations for the full CSO-053 watershed would be reduced from 206.1 MG per year to 11.7 MG per year.

Partial sewer separations could be a viable alternative in some locations but are typically completed in areas in which major redevelopment is being completed (i.e., new large housing complex or industrial park), as the areas in which redevelopment occurs usually requires a lot of earthwork to implement the project. However, it is more difficult to implement sewer separations in dense, populated neighborhoods, especially in the presence of other existing utilities, such as communications lines, electric ductbanks, water service lines, and natural gas lines. Performing sewer separation also involves significant disturbance to neighborhood traffic patterns with many streets affected.

Table 2-6 summarizes the results for different levels of partial sewer separation for the areas tributary to each impacted SPP within the CSO-053 sewershed.

Table 2-6: Summary of Required Partial Sewer Separation Levels and Associated Costs

SPP	Percent Control Required through Partial Sewer Separation	Notes
165B	0%	Target already achieved with 1 activation predicted
175	40%	Activations reduced from 5 to 4 at this SPP
176		
177		
336B	100%	Target not achieved, with 5 activations still projected to occur
337	100%	Target not achieved, with 11 activations still projected to occur
338	80%	Activations reduced from 19 to 4
340	100%	Activations reduced from 16 to 4
341A	80%	Activations reduced from 14 to 4

2.4 Alternative 4 - Deep Tunnel Storage

This alternative includes building offline storage in the form of a deep tunnel well below the existing combined sewer system, similar to what is currently present as the Scajaquada Tunnel and following an alignment that runs parallel to the existing Scajaquada Tunnel as shown in **Figure 2-1**.

Overflow from each of the SPPs would be redirected into drop shafts and into a new tunnel for storage. Given the significant depth of a Tunnel, this option would also need a dewatering pump station and force main to return stored flow to the collection system following the rain event.

To control to the target number of 4 activations or less at each SPP during the typical precipitation year, a tunnel would need to be sized as follows:

- Length – 25,400 linear feet running from near the intersection of Genesee Street and Bailey Avenue at its eastern end to the Northern Interceptor near the Black Rock Canal at its western end'

- Diameter – 12 feet
- Depth – similar to the depth of the existing Scajaquada Tunnel (approximately 50 to 60 feet below the surface) or deeper
- The appropriate number of access shafts for inspection and maintenance purposes
- Adit (connection from drop shaft to the tunnel) lengths and diameters as shown below in **Table 2-7** to connect the new drop shafts at the SPPs to the new tunnel
- Associated drop shafts at each SPP (12 dropshafts estimated)
- Dewatering pump station sized to dewater the storage tunnel within 24 hours after the rain event, resulting in a total annual dewatered volume of 265 million gallons. The pumping station would require additional operations and maintenance labor and associated costs.

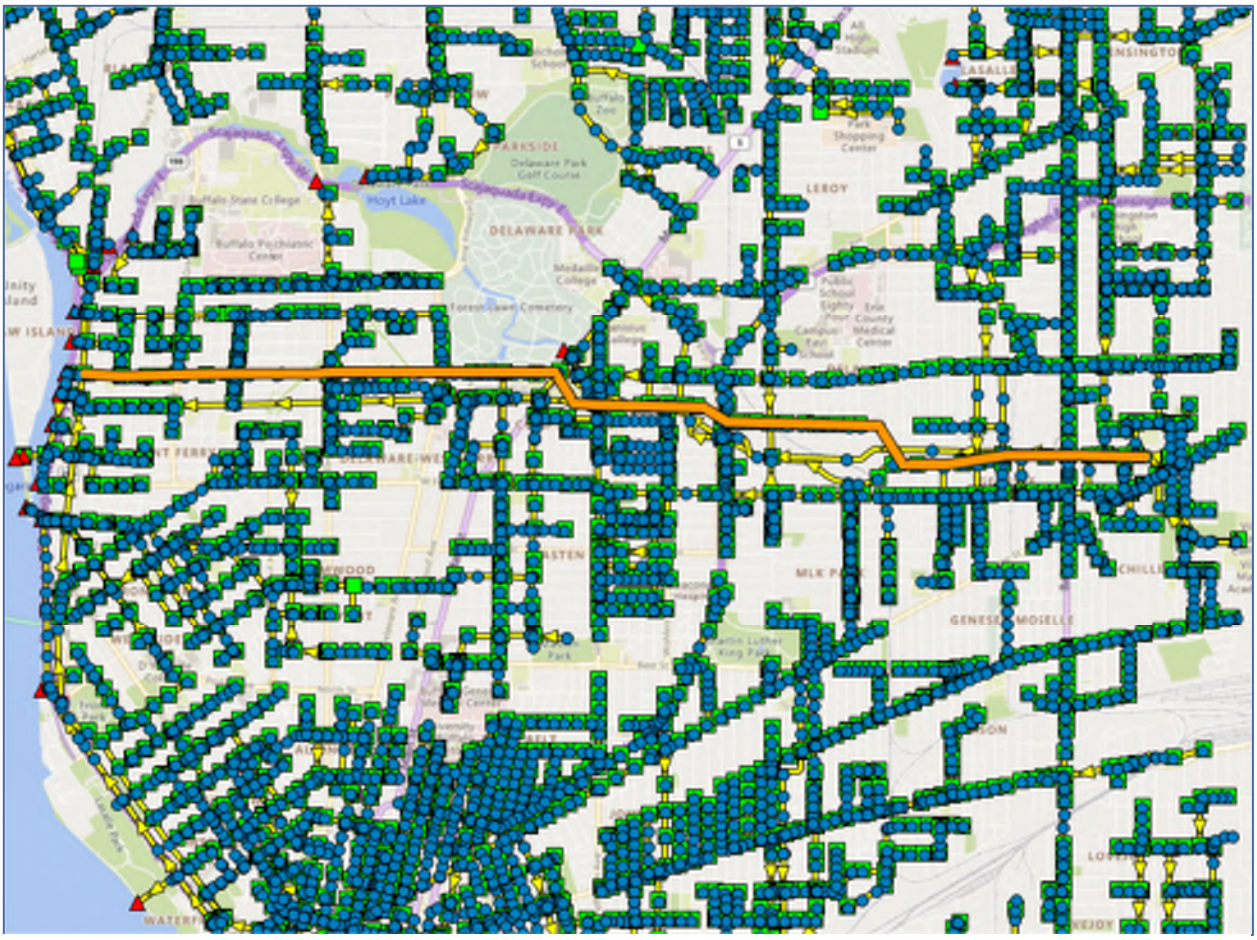


Figure 2-1: Proposed Alignment of Proposed Deep Tunnel Storage System

Table 2-7: Summary of Adit Connections to New Deep Tunnel

SPP	CSO	Adit Length (ft)	Adit Diameter (ft)
SPP179	006	605	5
SPP180	006	15	2
SPP331	006	50	3
SPP175	053	5435	2
SPP229A	053	15	2
SPP333	053	600	4
SPP336B	053	410	5
SPP337	053	15	5
SPP338	053	15	4
SPP339	053	15	3
SPP340	053	60	5
SPP341A	053	560	3

Table 2-8 shows the projected impact of building a new deep storage tunnel, resulting in three overflows and 57.1 million gallons of overflow in the typical year. This also includes addressing overflows at three SPPs associated with CSO-006 (SPP179, SPP180, SPP331), however, the main impact would be to address overflows at CSO-053.

Table 2-8: Projected Activations and Volumes associated with the Tunnel Alternative

Impacted SPP	Tunnel Alternative	
	OF Vol. (MG)	OF Events
SPP179 *	1.6	2
SPP180 *	0	0
SPP331*	0	0
SPP175	0	0
SPP229A	0	0
SPP333	3.7	2
SPP336B	16.9	2
SPP337	4	2
SPP338	7.5	2
SPP339	8	3

Impacted SPP	Tunnel Alternative	
	OF Vol. (MG)	OF Events
SPP340	13.9	2
SPP341A	1.5	3
	57.1	**3**

* denotes SPPs associated with CSO-006

The deep tunnel alternative, while providing compliance with the LTCP with an estimated 3 overflow activations per year, would be difficult to build as much of the alignment is through densely populated neighborhoods. At the depth of more than 60-ft, significant footprint would be required during construction for tunneling machine launching and receiving pits. In addition, drilling through rock may result in adverse effects to neighborhoods, especially in terms of vibration.

The dewatering pump station will require frequent maintenance to ensure equipment in good working order to return flow to the combined sewer system for subsequent conveyance to the treatment plant at the conclusion of wet weather.

2.5 Alternative 5 - SPP Modifications and Off-Line Storage

This alternative includes a combination of SPP modifications and off-line storage facilities as shown in **Table 2-9**. Each project was assessed within the collection system model and modifications to the model configuration were made to fine-tune the recommendations. In some cases, several iterations were completed to determine the most appropriate modifications. However, if the targets could be achieved relatively easily with a weir height modification or orifice plate removal, more extensive improvements were typically not evaluated. These improvements achieved four activations or less at each SPP in the typical year as shown in **Table 2-10**.

Table 2-9: Summary of CSO-053 SPP Modifications and Off-Line Storage

Impacted SPP	Description of Project	Notes
165B	Replacement of 1000 LF of 24-inch pipe with 36-inch pipe and expansion of the junction chamber	Further evaluations during final design deemed this project unnecessary (see Section 1.3.1.4 for further details).
175	Increasing weir heights in the three SPPs	This project is combined in a single contract along with the modifications to SPP336B (excluding the Sidney RTC structure), SPP175, SPP176, and SPP177.
176		
177		
336B	Constructing a 5.5 MG buried concrete tank, diversion structure and tank inlet and outlet sewers	Design currently being refined from an off-line storage tank to a real-time control structure (Sidney RTC). Design in progress by others. Separate PER will be submitted for the Sidney RTC project.

Impacted SPP	Description of Project	Notes
337	Installation of a new vortex-style drop shaft to the Scajaquada Tunnel to accommodate a peak flow of 48 MGD	Project will be bid as a single project separate from other SPP improvements.
338	Installing longer/higher weir within the SPP.	Project removed from this set of projects and will be completed as a change order to a current Smart Sewer project (Scajaquada Creek and Black Rock Canal Smart Sewer Project), currently under construction) in this location.
340	Constructing a 2.61 MG buried concrete tank, diversion structure and tank inlet and outlet sewers	Design in progress by others. Separate PER has been submitted that discusses the SPP340 project.
341A	Installation of a new vortex-style drop shaft to the Scajaquada Tunnel to accommodate a peak flow of 26.4 MGD	Project will be bid as a single project separate from other SPP improvements.

Table 2-10: Summary of Expected Activations and Number of Overflows Under Alternative 5

Impacted SPP	Baseline		Proposed LTCP Projects	
	OF Vol. (MG)	OF Events	OF Vol. (MG)	OF Events
165B	0.1	1	0	0
175	1.3	5	0	0
176	0	0	0	0
177	0	0	0	0
336B	92.3	36	4.8	2
337	26.2	19	1.8	4
338	33.7	19	0	0
340	41.6	16	5.6	3
341A	10.9	14	0	0
	206.1	**36**	**12.2**	**4**

Under Alternative 5, some sub-alternatives were evaluated at SPPs 175, 176, 177, 336B, 337, 338, and 341A. As indicated previously, alternatives for the RTC project for SPP336B and the OLS project for SPP340 are discussed in separate PERs and are not included within the scope of this report. The following sections discuss the sub-alternatives for the SPP modification projects.

The LTCP optimization that was conducted within recent years involved numerous iterations within various versions of the collection system model and was conducted iteratively. Initial modifications were made within the partial, composite, and full models, tested, and then adjusted if compliance was not achieved. Note that many of these alternatives were not evaluated extensively as other alternatives (i.e., land acquisition concerns, compliance was not reached per the collection system model, project was expected to add operations and maintenance labor and costs beyond what BSA is able to provide based on current staffing and budget levels, among others). Therefore, the descriptions that follow may indicate that, while the alternative was considered, it may not have been progressed very far before being eliminated as an alternative.

2.5.1 Colorado Ave – CSO053_2.5 SPP337 Modification

2.5.1.1 Colorado Status Quo Alternative 5A – No Improvements

Under this alternative, no improvements would be made to the SPP, resulting in 19 overflow activations and an estimated overflow volume of 26.2 million gallons per year. While there are no costs associated with this alternative, there are no benefits realized either.

2.5.1.2 Colorado Alternative 5B - SPP 337 Satellite Storage, Conveyance, Force Main, and Pump Station

This project was first identified within the 2014 LTCP and envisioned as a 0.7-million-gallon (MG) storage tank at the intersection of Scajaquada Street and Colorado Avenue. However, there were significant land acquisition and constructability concerns, as this area is within a congested industrial corridor with significant utilities and existing buildings providing project implementation concerns, especially with the installation of the associated tank, pumping station, and force main which would require a considerable footprint for construction. The 0.7-MG tank also was determined to not achieve compliance in the new recalibrated collection system model; therefore, this alternative was discarded prior to optimization efforts.

In addition, the use of a pumping station would add significant operations and maintenance efforts and costs to the BSA. With current staffing levels, additional infrastructure requiring significant O&M effort would further strain available resources.

2.5.1.3 Colorado Alternative 5C - Inline Storage (ILS)

This project was to be located on Colorado Street near Scajaquada Street within the footprint of the former American Axle property on East Delavan Street. Construction of an RTC structure at this location would require a permanent easement from a private property owner in a known Superfund site and would entail excavation of what are highly suspected contaminated soils. In addition, RTC structures also can require large footprints due to the high length of weir needed to prevent overflows upstream in higher flow conditions. Due to the high cost-benefit ratio and the extended legal process associated with this project, implementation was delayed infinitely. This project was later replaced with other projects (see sub-alternatives further evaluated below). No costs were developed for this alternative due to the issues noted above.

2.5.1.4 Colorado Alternative 5D - Colorado Dynamic Underflow Control (DUC)

Colorado DUC would have involved installing instrumentation and gates or valves that would have modulated flow in the SPPs underflow pipe in response to dynamic data received regarding water surface elevations both upstream and downstream of the SPP. While initially this alternative appeared promising within the initial model runs using certain storm events within the pared down component models, it was

subsequently removed from consideration because DUC did not achieve compliance during the full typical year simulation using the full collection system model.

2.5.1.5 Colorado Alternative 5E - Delavan and Moselle Off-line Storage (OLS)

This alternative envisioned a 0.5 MG offline storage facility but was removed from consideration as the alternative was projected to not achieve compliance for SPP337.

2.5.1.6 Colorado Alternative 5F - William Gaiter Relief Sewer to Amherst Quarry

Under this alternative, a relief sewer to send more flow to Amherst Quarry was envisioned. The existing utility corridor runs from Warwick and William Gaiter Parkway; the original intent was to connect into the sewers along both streets and reroute flow up the extension from William Gaiter Parkway to East Amherst and to the Quarry. This alternative showed more impact on SPP337 overflow reduction than the Delavan and Moselle OLS (Colorado Alternative 5E) in the SPP component model but did not achieve compliance in the typical year within the full collection system model. Therefore, this alternative was removed from further consideration.

2.5.1.7 Colorado Alternative 5G - SPP337 Modification

Colorado Alternative 5G was initially envisioned as incorporating an additional 30-inch diameter underflow pipe to help direct more flow to the Scajaquada Tunnel Interceptor before flow overflows into the Scajaquada Drain. However, further investigation into the original design of the Scajaquada Tunnel Interceptor drop shaft at Colorado Street indicated that the design capacity of the existing drop shaft is 16.61 MGD, as shown in **Table 2-11**, and originally sized to handle six times dry weather flow. The required design underflow to reduce the number of overflows at this SPP from 19 to 4 is 48 MGD, which is approximately triple the current underflow. Therefore, to obtain the necessary increase in flow capacity, a new sewer diversion chamber and drop shaft connection to the Scajaquada Tunnel Interceptor is needed to replace the existing drop shaft (**Figure 2-2 and Figure 2-3**). Under this alternative, the existing SPP would be expanded to approximately 35-ft by 20-ft allow for a new transition from the combined sewer to the new 10-ft by 10-ft drop shaft.

Table 2-11: Original Design Criteria for Colorado Avenue at Scajaquada Drop Shaft

TABLE 7.1
DELAVAN AVENUE SEWER SERVICE INPUTS

DROP SHAFT PEAK DESIGN FLOW RATE

	Connecting Sewer Location	Approximate Location of Intersection	Service Area (acres)	Service Population (000's)	Size of Exist. Sewer (in)	1 DWF* (mgd)	4 DWF (mgd)	6 DWF (mgd)	
	Sprenger St.	Schiller Park	38	0.88	36 & 24	0.19	0.81	1.22	
SPP341A	Genesee St.	Floss Ave.	137	3.30	48 & 69	0.71	2.94	4.43	PROPOSED= 26.4 MGD
	Hagen St.	Kerns Ave.	343	8.25	102	1.79	7.38	11.11	
	Newburgh St.	Kerns Ave.	26	0.60	42	0.13	0.55	0.83	
	Texas St.	Kerns Ave.	378	9.12	48 x 162	1.98	8.14	12.25	
	Bailey Ave.	Kerns Ave.	949	17.82	(2) 78	4.99	20.45	30.76	
SPP337	Colorado Ave.	Scajaquada St.	488	7.83	60 x 108	3.36	11.31	16.61	PROPOSED= 48 MGD

Source: Scajaquada Tunnel Interceptor Facility Plan, Step 1, Section VII, The Selected Plan, Leonard S. Wegman Co. Inc., February 1976

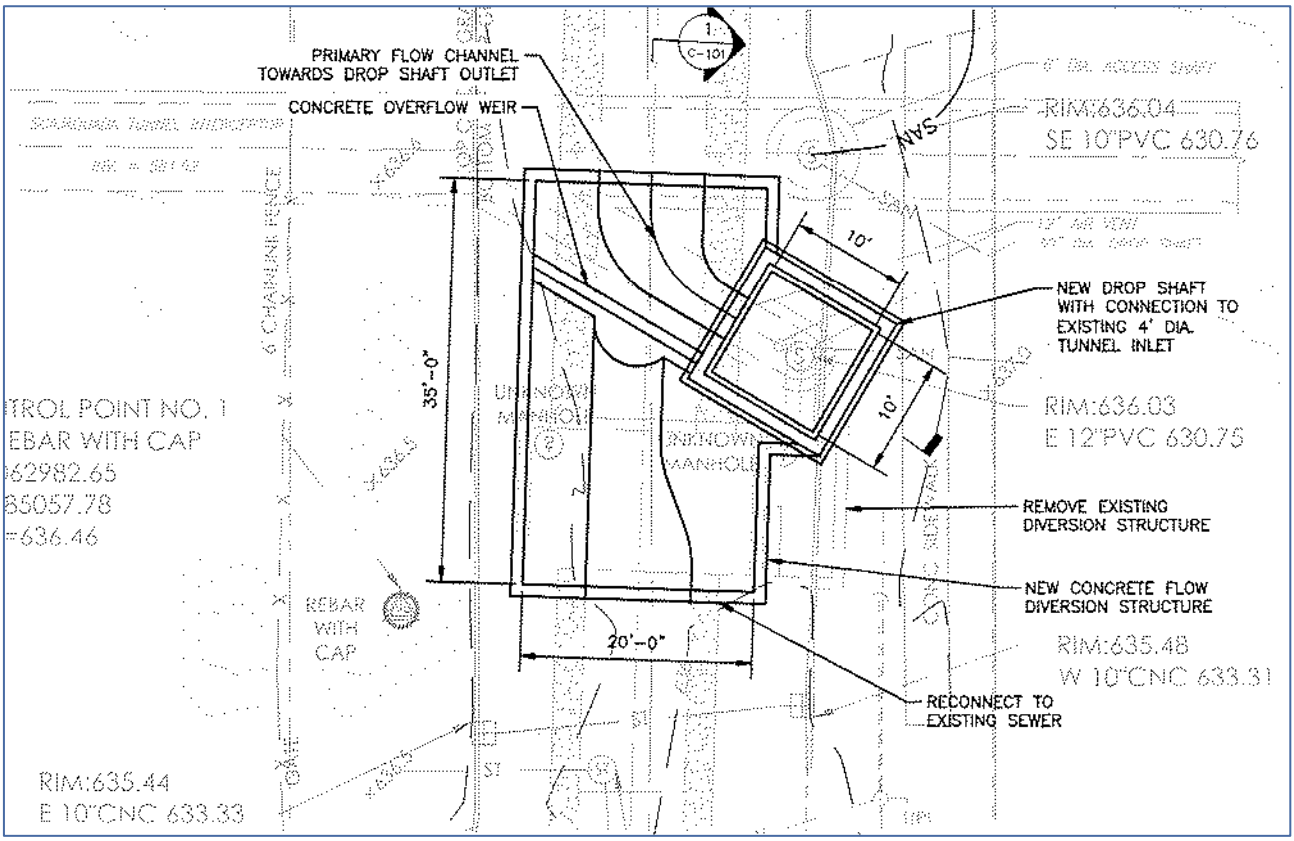


Figure 2-2: Proposed Preliminary Configuration for New Dropshaft at SPP337

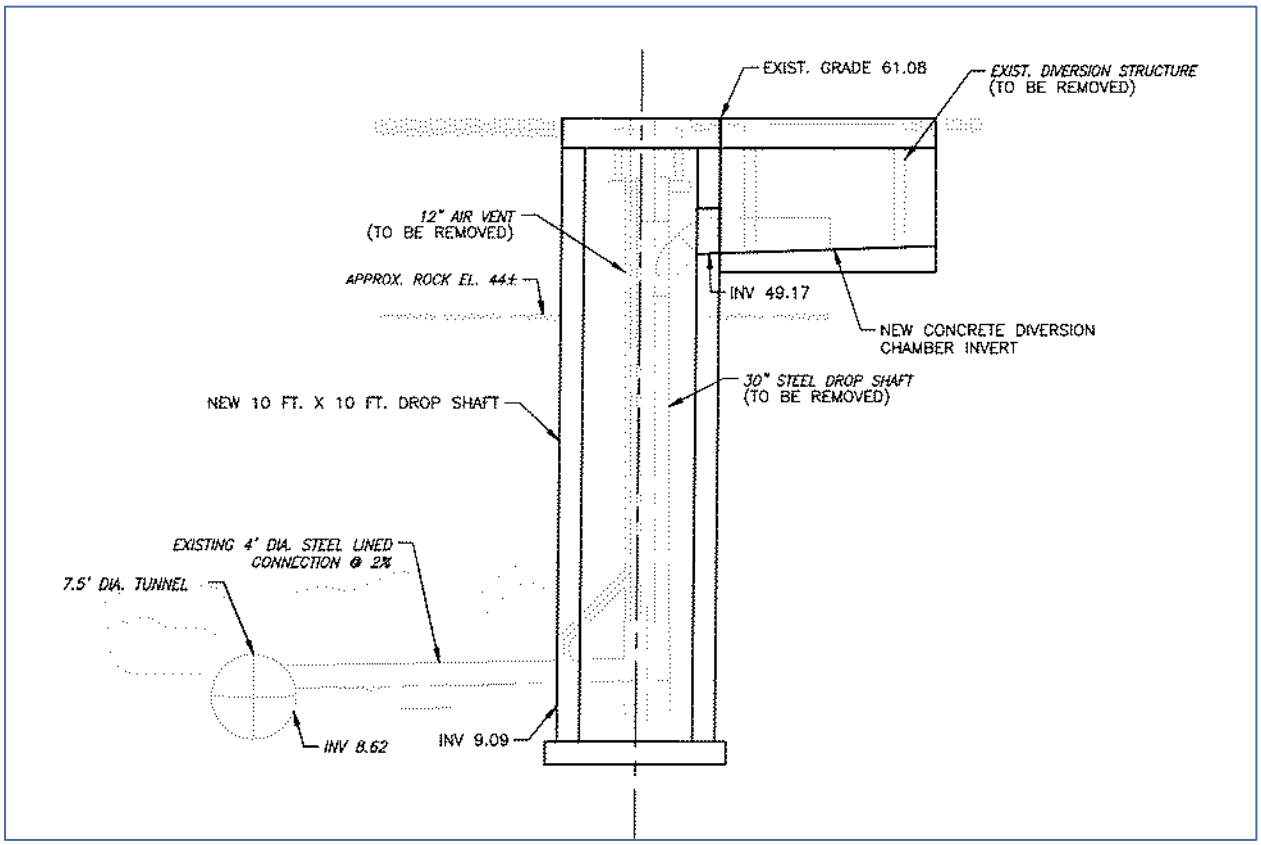


Figure 2-3: Proposed Section for new 10-ft by 10-ft drop shaft at SPP 337

Replacement of the drop shaft connection at Colorado Ave is not without several construction challenges. The existing drop shaft is located about 17 ft west of an existing two-story commercial building which is being considered in excavation protection system design. The proximity of both the old and the proposed drop shaft will take place in a very tight footprint on the site and limits the amount of room available for a new drop shaft design. Also, because of the limited footprint, the new 10-ft by 10-ft shaft would be constructed in the location of the existing dropshaft to make use of the existing 4-ft diameter adit for connection to the Scajaquada Tunnel.

Under this alternative, the proposed construction footprint is bordered by a brownfield, so it is imperative that all work stay contained within the existing right of way and not require easements. On the Colorado Avenue side, SPP 337 is adjacent to the property of 1001 East Delavan Avenue, which is currently listed in the NYSDEC's Environmental Site Remediation Database. The site contains a large portion of the former General Motors (GM) and American Axle Manufacturing (AAM) and surrounds a 2.54 acre listed Class 2 New York State Inactive Hazardous Waste Site (Site No. 915196). Most of the site is covered in buildings and pavement. Potential contamination from lead, polychlorinated biphenyls (PCBs) and petroleum products is possible. A Brownfield Cleanup Agreement was executed in March 2018 with the owner of the property, East Delavan Property, LLC. Environmental data for a previous soil boring suggests that soil contamination is not present in the proximal area of the boring with exception of a nominal detection for chromium just above the PCB unrestricted use soil cleanup objectives (basically "clean" soil).

While the location of the improvements at this SPP is within the public right of way, SPP 337's location will require the construction of a temporary access road to the site, so as to not impact the access to the existing property, if this alternative were implemented. As a result, the BSA would need to work with the property owners to install a temporary site access road during construction as shown in **Figure 2-3**. This figure shows that a proposed area of approximately 0.315 acres will be required to provide a 20-ft wide access road with adequate turning radii for truck traffic arriving from both the south and the west, if the existing accessway were impeded by construction at SPP 337. At the conclusion of construction, the temporary access road would be demolished, the lawn restored to pre-construction condition, and the regular access road to the site returned to service.

The hydraulic design of a new sewer drop shaft focuses on managing the flow of sewage as it descends, dissipating energy from the falling flow and minimizing the amount of air that gets entrained in the process. Proper hydraulic design ensures efficient flow, reduces wear on the shaft, and maintains the overall performance and longevity of the sewer system.

The existing drop shaft was first evaluated to confirm the flow rates shown in **Table 2-11**. Using capacity analysis methods for structures of a similar configuration, the original design capacities were confirmed, and it was determined that the existing drop shaft would need to be replaced to convey the desired 48 MGD to the tunnel. It should be noted that the design of the existing drop shafts does not align directly with any modern design drop shaft guidance or drop shaft models, so capacity calculations were performed using modern designs with similar design configuration. It is also of note that modern drop shaft designs of this plunge style drop shaft typically require much longer deaeration chambers that allow the air that is mixed with the water to escape prior to entering the main tunnel conduit. The following discussion summarizes the three different types of drop shafts evaluated.

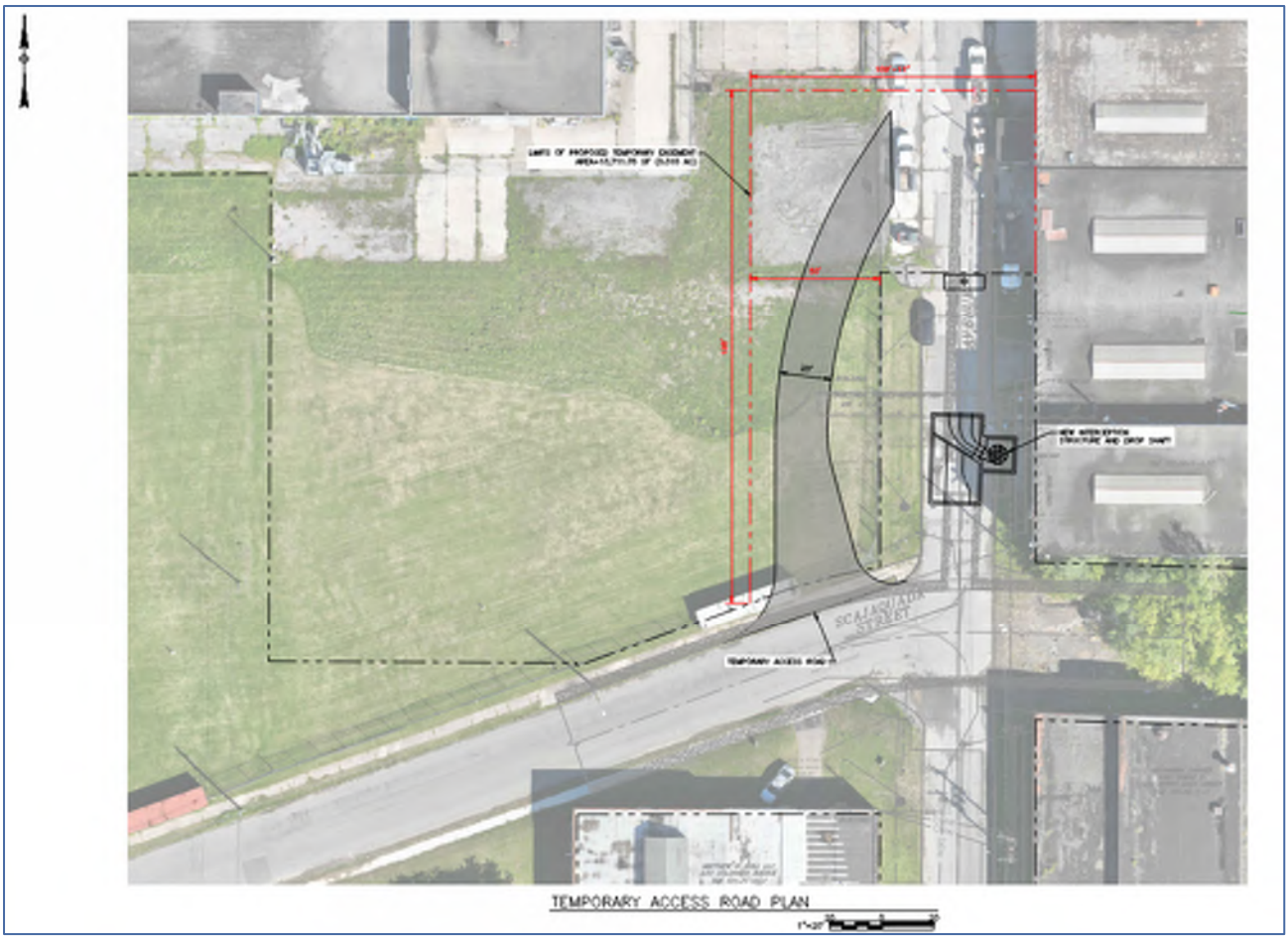


Figure 2-4: Proposed Location of Temporary Site Access Road at SPP337

2.5.1.7.1 Plunge Drop Shaft – Colorado Option 5G1

A plunge drop structure (**Figure 2-4**) works by allowing sewage to fall freely down a vertical shaft into a plunge pool or basin at the bottom. As sewage falls, it gains kinetic energy, which is dissipated upon impact with the water in the plunge pool. Turbulence in the plunge pool reduces the velocity and energy of the flow, preventing high-velocity impacts on the downstream sewer system. The design helps to manage the force of the falling sewage, mitigating the risk of structural damage, erosion, and blockages. By converting the kinetic energy into turbulence, the plunge drop structure ensures a smoother and more controlled flow into the subsequent sewer lines, enhancing the overall efficiency and longevity of the sewer system.

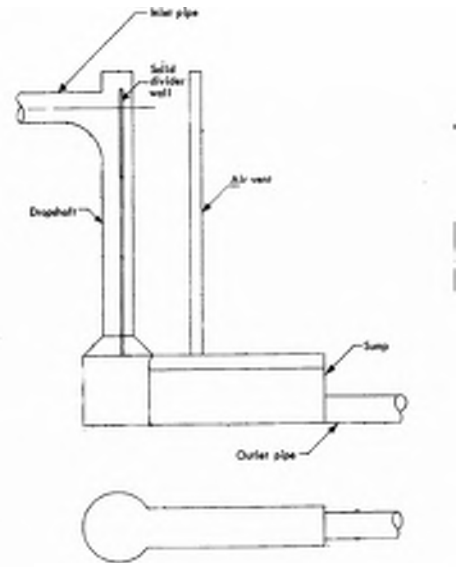


Figure 2-5: Typical Plunge Drop Shaft

Plunge drop structures, while effective in managing sewage flow, allow for a high-energy impact from falling sewer flow causing significant turbulence, leading to wear and erosion over time. To overcome this, the structural components face considerable stress from the impact, necessitating more robust construction materials. They also require substantial space for the plunge pool and deaeration chamber, which in the limited right of way available at Colorado Street, eliminated this type of drop structure from further consideration.

2.5.1.7.2 Baffle Drop Shaft – Colorado 5G2

Baffle sewer drop structures (**Figure 2-5**) manage the descent of sewage through a series of baffles or shelves strategically placed along the vertical shaft. As sewage flows down the shaft, each baffle interrupts the fall, gradually dissipating the kinetic energy and reducing the velocity step-by-step. This staged energy dissipation minimizes the impact force at the bottom, lowering the risk of structural damage and erosion. Baffle drop structures effectively reduce turbulence and wear within the shaft, providing a smoother and more controlled flow. However, their design is complex and requires precise engineering to ensure the baffles are correctly spaced and angled. Additionally, these structures can be more challenging to maintain, as debris can accumulate on the baffles, necessitating regular cleaning and inspection to prevent blockages and ensure efficient operation.

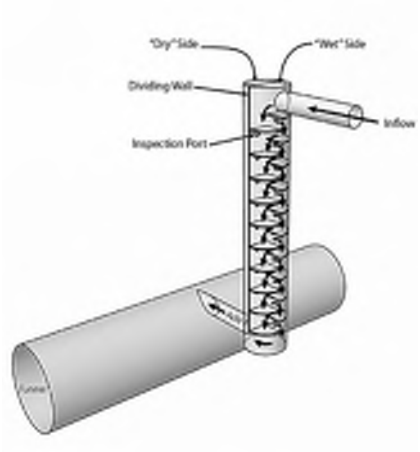


Figure 2-6: Typical Baffle Drop Shaft

Access for maintenance can be difficult due to the internal structure, complicating inspection and repair work.

2.5.1.7.3 Vortex Drop Shaft – Colorado 5G3

Vortex drop structures (**Figure 2-6**) manage the descent of sewage in a controlled manner by inducing a swirling motion as the flow enters the vertical shaft. This spiral movement reduces the velocity of the sewage gradually, minimizing the kinetic energy before it reaches the bottom of the shaft. The swirling flow creates a stable vortex, which helps to evenly dissipate energy and prevent hydraulic jumps that could cause structural damage or erosion. Vortex drop structures are particularly effective in reducing turbulence and wear within the shaft, enhancing the durability of the infrastructure. Additionally, this design minimizes splashing and noise, reducing odors and making maintenance easier compared to other types of drop structures. The controlled energy dissipation and reduced structural stress make vortex drop structures an efficient solution for managing high-velocity sewage flows in a relatively small footprint compared to other designs.

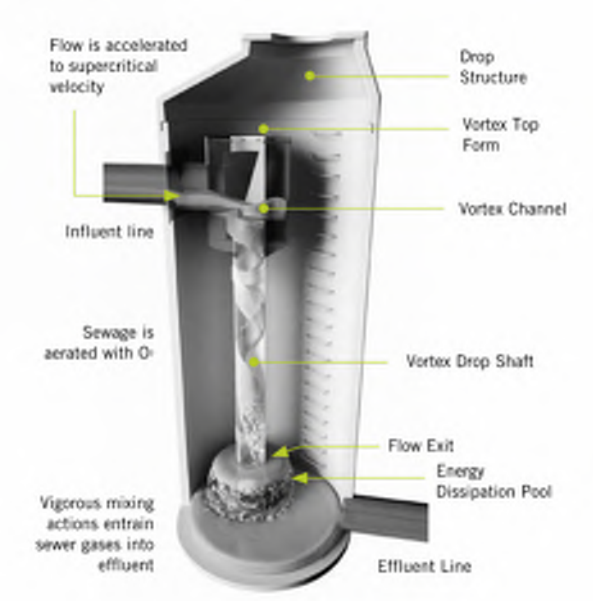


Figure 2-7: Typical Vortex Drop Shaft

Compared to the plunge structure, vortex structures can be more complex to design and construct compared to simpler drop structures, often requiring precise engineering and important consideration of the upstream flow conditions. To generate the swirling flow pattern in the vertical drop shaft, proprietary pre-engineered inserts are required to condition the flow and direct it into a vortex flow pattern.

The geometry associated with each drop shaft configuration is summarized in **Table 2-12**.

Table 2-12: Summary of Drop Shaft Geometry for SPP 337 – Colorado Avenue

VORTEX INSERT (IPEX)				
DROP SHAFT INSIDE DIAMETER	VORTEX INSERT DIAMETER	VORTEX INSERT HEGIHT	VORTEX BOX WIDTH	VORTEX BOX LENGTH
3'-0"	7'1"	10'-10"	12'-0"	12'-0"

BAFFLE STROP STRUCTURE		
BAFFLE WIDTH	BAFFLE VERTICAL SPACING	BAFFLE DROP SHAFT DIAMETER
9'-0"	4'-4"	13'-6"

PLUNGE INLET WITH DEAERATION CHAMBER*				
DROP SHAFT INSIDE DIAMETER	MINIMUM AIR VENT DIAMETER	DROP SHAFT INFLOW DIAMETER	DEAERATION CHAMBER LENGTH	DEAERATION CHAMBER HEIGHT
3'-11"	1'-7"	3'-11"	28'-4"	9'-4"

*SIZING BASED ON TARP

2.5.2 Humboldt Parkway – CSO053_13 SPP165 Modification

2.5.2.1 Humboldt Alternative 5A - Status Quo Alternative

Under this alternative, no improvements would be made to the SPP, resulting in 1 overflow activation and an estimated overflow volume of 0.1 million gallons per year.

2.5.2.2 Humboldt Alternative 5B – Increasing Size of Underflow Pipe

The draft PER indicated that SPP 165B on Humboldt Parkway was out of compliance. Therefore, an alternative was developed that involved increasing the diameter of the SPP165B underflow orifice from 18-inches to 24-inches and increasing the amount of flow conveyed by the underflow with a larger pipe. The overflow weir would also be raised from its existing level of 53.71 to 54.81 (city datum).

To accommodate conveyance of the peak flow of 11.3 MGD through the underflow sewer, approximately 1,000 linear feet (LF) of existing 24-inch diameter pipe between East Delavan Avenue and Northland Avenue was proposed for replacement with a 36-inch diameter pipe. Also, due to the small size of the existing junction chamber at East Delavan Avenue, where the 24-inch pipe currently connects to the 46-inch brick sewer under East Delavan Avenue, there is not enough room to connect the 36-inch pipe, create a new flow channel to the pipe, and accommodate a larger orifice plate so that junction chamber will also be replaced and upsized. A plan and profile of this option is shown in the drawings contained within Appendix E. This project was not originally included in the 2014 LTCP.

Significant utilities are present in the vicinity of this SPP and the chamber itself is located within the middle of a busy traffic intersection. Under this alternative, the new underflow sewer would need to cross under an existing electrical duct bank and an 8-inch diameter high-pressure natural gas main. As the pipe crown of the new pipe will be higher than existing with the increased diameter, the utilities in this replacement corridor would need to be test pitted to confirm there is adequate clearance to the proposed sewer pipe.

As discussed in Section 1.3.1.4, additional field investigations have indicated that the 18-inch diameter orifice plate is no longer installed within this SPP and CCTV inspection of the existing 24-inch underflow pipe showed that the parallel 18-inch sewer that collects sanitary and stormwater flow in the immediate vicinity discharges to the collector chamber at Humboldt Avenue and Northland Avenue. This configuration was added to the collection system model and upon further evaluation of those configuration changes, SPP 165B now is in compliance with the LTCP targeted activations with no additional changes required at this location. Therefore, this alternative was not considered further.

2.5.3 Genesee Street – CSO053_8 SPP341A Modification

2.5.3.1 Genesee Alternative 5A - Status Quo Alternative

Under this alternative, no improvements would be made to the SPP, resulting in 14 overflow activations and an estimated overflow volume of 10.9 million gallons per year. While there are no costs associated with this alternative, there are no benefits realized either.

2.5.3.2 Genesee Alternative 5B1, 5B2, 5B3 - SPP341A Optimization at Genesee and Kearns

The original optimization was included in the 2014 LTCP and involved increasing the existing underflow orifice to a 3-ft diameter area equivalent and increasing the underflow pipe to 3-ft diameter. However, during BSA's recent optimization of LTCP projects remaining for implementation, this alternative was further refined using the collection system model to reduce the diameter of the underflow pipe to 30-inches to handle an increased underflow capacity of 26.4 MGD.

The general configuration for the Genesee Street SPP is very similar to that of the Colorado Street SPP discussed above and faces similar challenges but on a smaller scale in terms of flow conveyance. The existing drop shaft connection to the Scajaquada Tunnel Interceptor at SPP 341A was reviewed and determined to be undersized for the proposed flow of 26.4 MGD, with an original design flow of only 4.43 as shown in **Table 2-13.**

Table 2-13: Summary of Original Design Flow for Genesee Drop Shaft

TABLE 7.1
DELAVAN AVENUE SEWER SERVICE INPUTS

DROP SHAFT PEAK DESIGN FLOW RATE

	Connecting Sewer Location	Approximate Location of Intersection	Service Area (acres)	Service Population (000's)	Size of Exist. Sewer (in)	1 DWF* (mgd)	4 DWF (mgd)	6 DWF (mgd)	
	Sprenger St.	Schiller Park	38	0.88	36 & 24	0.19	0.81	1.22	
SPP341A	Genesee St.	Floss Ave.	137	3.30	48 & 69	0.71	2.94	4.43	PROPOSED= 26.4 MGD
	Hagen St.	Kerns Ave.	343	8.25	102	1.79	7.38	11.11	
	Newburgh St.	Kerns Ave.	26	0.60	42	0.13	0.55	0.83	
	Texas St.	Kerns Ave.	378	9.12	48 x 162	1.98	8.14	12.25	
	Bailey Ave.	Kerns Ave.	949	17.82	(2) 78	4.99	20.45	30.76	
SPP337	Colorado Ave.	Scajaquada St.	488	7.83	60 x 108	3.36	11.31	16.61	PROPOSED= 48 MGD

Source: Scajaquada Tunnel Interceptor Facility Plan, Step 1, Section VII, The Selected Plan, Leonard S. Wegman Co. Inc.

The same three types of drop structures (1 – plunge, 2-baffle, and 3-vortex) evaluated for Colorado Avenue were also evaluated for the replacement connection to the tunnel at Genesee Street. See the discussion in Section 2.5.1.7 for the advantages and disadvantages of each style of drop structure.

The two primary differences between the Colorado Avenue and Genesee Street sites are the proposed flow to be conveyed and real estate available to construct the drop shaft replacement. At Genesee Street, the drop shaft replacement will be within the limits of Schiller Park which offers more room for excavation shoring, construction access and staging, and a larger buildable footprint for a replacement solution. See **Table 2-14** for a summary of the geometry associated with each drop shaft configuration for this site.

Table 2-14: Summary of Drop Shaft Geometry for SPP 341A – Genesee Street

VORTEX INSERT (IPEX)				
DROP SHAFT INSIDE DIAMETER	VORTEX INSERT DIAMETER	VORTEX INSERT HEGIHT	VORTEX BOX WIDTH	VORTEX BOX LENGTH
2'-6"	6'-5"	5'-5"	14'-0"	14'-0"

BAFFLE STROP STRUCTURE		
BAFFLE WIDTH	BAFFLE VERTICAL SPACING	BAFFLE DROP SHAFT DIAMETER
7'-4"	3'-10"	11'-0"

PLUNGE INLET WITH DEAERATION CHAMBER*				
MINIMUM DROP SHAFT INSIDE DIAMETER	MINIMUM AIR VENT DIAMETER	DROP SHAFT INFLOW DIAMETER	DEAERATION CHAMBER LENGTH	DEAERATION CHAMBER HEIGHT
3'-1"	1'-3"	3'-1"	22'-4"	7'-4"

*SIZING BASED ON TARP

The location of the existing SPP 341A is along the north side of Genesee Street. Under this alternative:

- A new concrete diversion chamber would be built to the west of the existing SPP 314 interceptor chamber. This chamber would direct flow into a new 30-inch diameter pipe (approximately 65 linear feet crossing to the south side of Genesee Street.
- Flow would enter a new MH-1 located on the south side of Genesee Street.
- Flow would then existing MH-1 and flow easterly for approximately 43-feet to a new MH-2, which would then redirect the flow to the new drop shaft.
- Construction of a new drop shaft to make use of the existing adit to the Scajaquada Tunnel.

These improvements are shown in plan on **Figure 2-8** and the drop shaft section is shown on **Figure 2-9**.

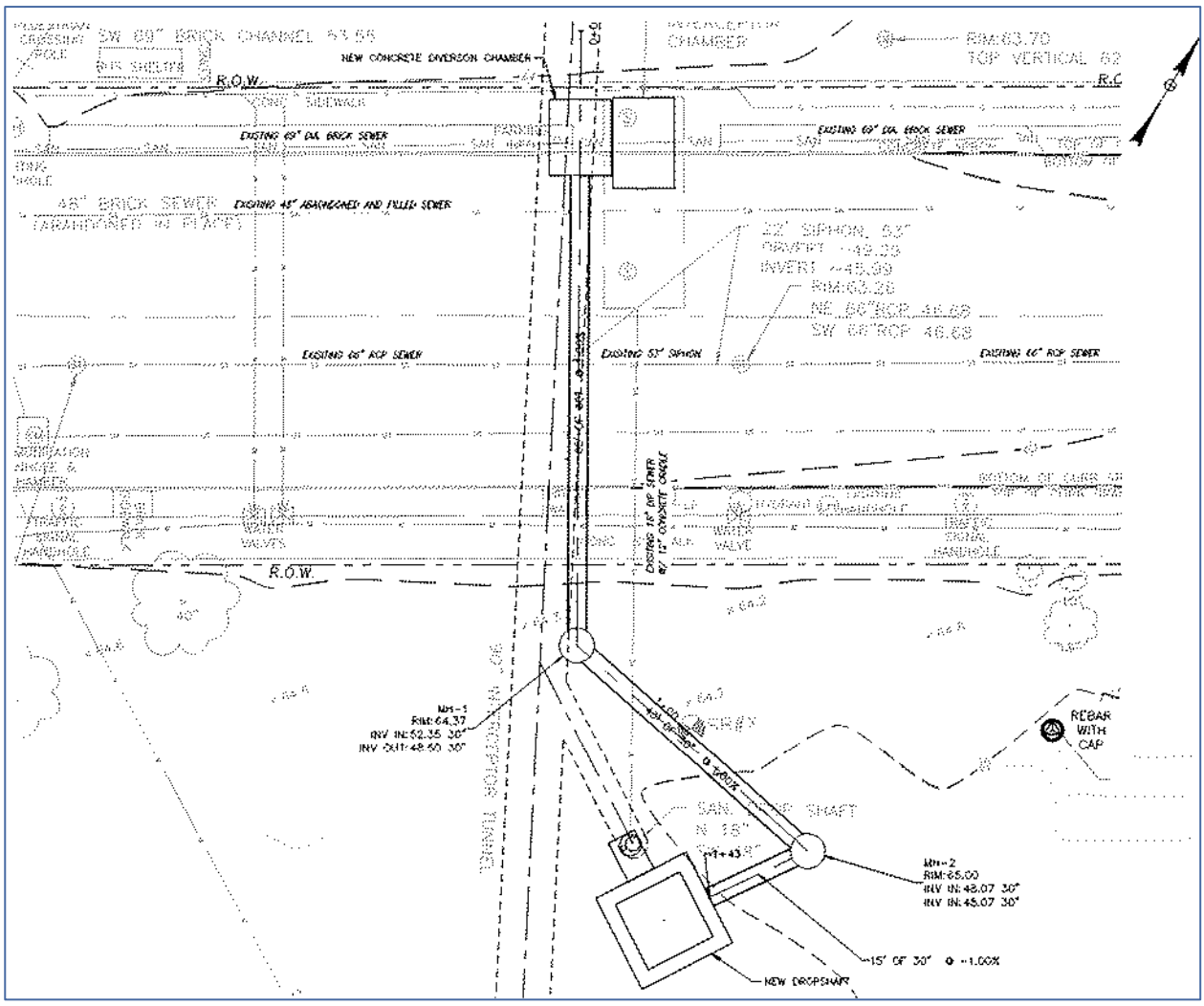


Figure 2-8: Proposed Plan for Modifications Under Genesee Alternative 5B

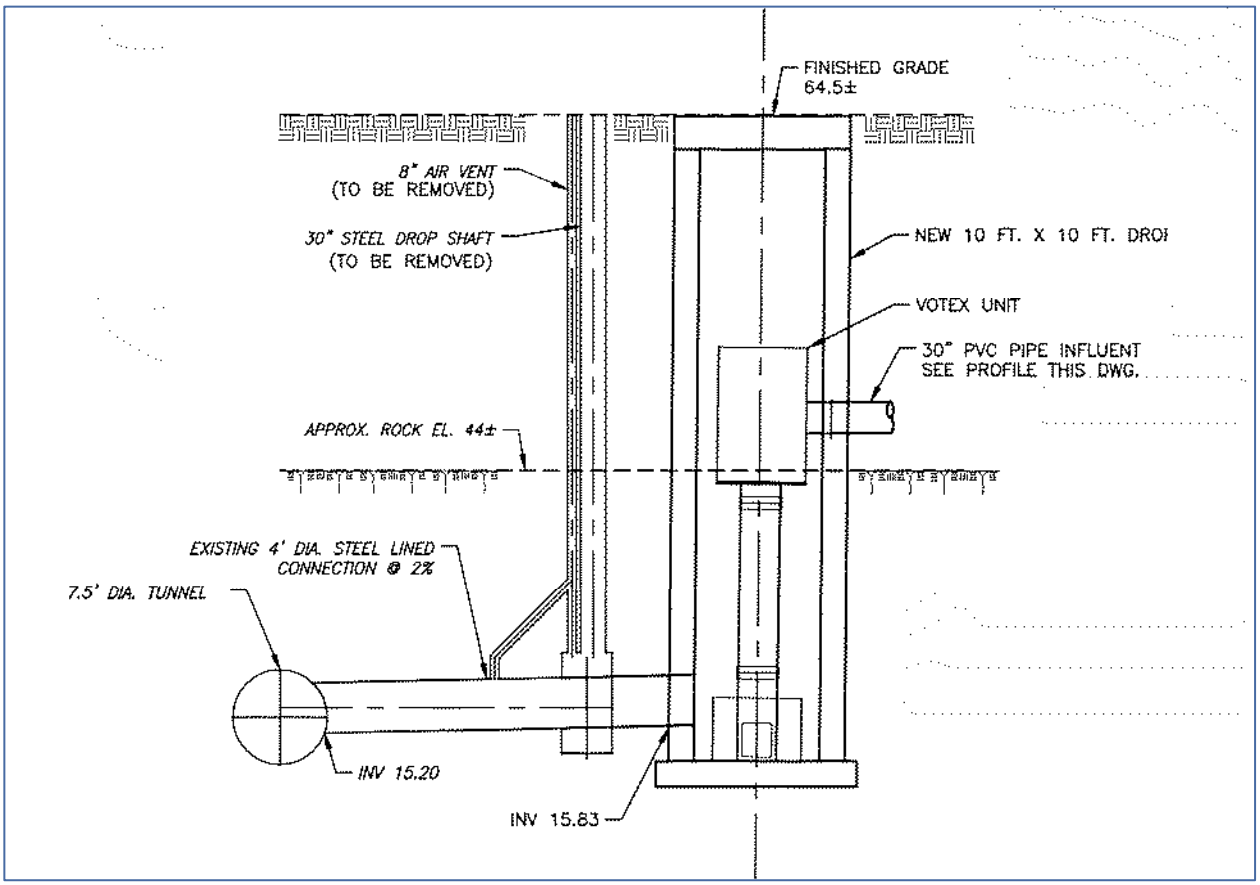


Figure 2-9: Proposed Dropshaft Section for Modifications Under Genesee Alternative 5B

2.5.3.3 Genesee Alternative 5C - 20% Green Infrastructure Implementation

It was determined, using the collection system hydraulic model, that providing green infrastructure to address 20% of the total impermeable area had the least impact on overflow volumes out of all the project alternatives. As shown in the Green Infrastructure Analysis under Alternative 2 (discussed in Section 2.2, implementing 20% GI for SPP 341A would involve capturing street runoff from 18 of the 89.9 acres tributary to this SPP, which would only reduce the number of activations at this location from 14 to 11 and reduce the annual overflow volumes from 10.9 MG to 6.9 MG. Furthermore, this evaluation also concluded that even 100% control (89 acres) of the area tributary to this SPP would not achieve the target number of activations. Therefore, this alternative was not further considered.

2.5.4 Michigan Ave – CSO053_14 SPP175, SPP176, and SPP177 Modifications

2.5.4.1 Michigan Alternative 5A - Status Quo Alternative

Under this alternative, no improvements would be made to the SPPs, resulting in 5 overflow activations and an estimated overflow volume of 1.3 million gallons per year. While there are no costs associated with this alternative, there are no benefits realized either.

At this SPP, only SPP 175 was out of compliance, no overflows are currently noted at either SPP 176 or SPP 177.

2.5.4.2 Michigan Alternative 5B – Raising Overflow Weir Elevations

Under this project, the weirs at SPP175, SPP176, and SPP177 would be modified per the design values as shown in **Table 2-15**. These projects were not originally included in the 2014 LTCP. While only SPP 175 is out of compliance, the weirs at downstream SPPs 176 and 177 would need to be raised to prevent overflows from those locations with the increase in underflow from SPP 175.

Table 2-15: Summary of Design Criteria for SPP 175, 176 and 177 Modifications

Design Parameters	Site		
	SPP175 (WEIR#99)	SPP176 (WEIR#100)	SPP177 (WEIR#98)
Design peak flow, mgd	43.20	58.81	60.26
Weir coefficient, C_d	3.10	3.30	3.40
Weir Length, ft.	13.50	6.50	10.50
Site Invert Elevation, ft. (BSA Datum)	53.85	50.94	46.10
Maximum Weir Elevation, ft. (BSA Datum)	56.86	53.00	48.83
Critical Elevation, ft. (BSA Datum)	58.35	55.69	50.85
Critical Elevation Basis	contained in pipe at 4953 (SPP175 chamber, Michigan & Dodge)	contained in pipe at 4941 (SPP176 Chamber, Michigan & Riley)	contained in pipe at 4931 (Michigan & Glenwood)
Design Weir Elevation, ft.	56.10	52.85	48.35
Current Weir Elevation, ft.	55.34	52.65	48.07

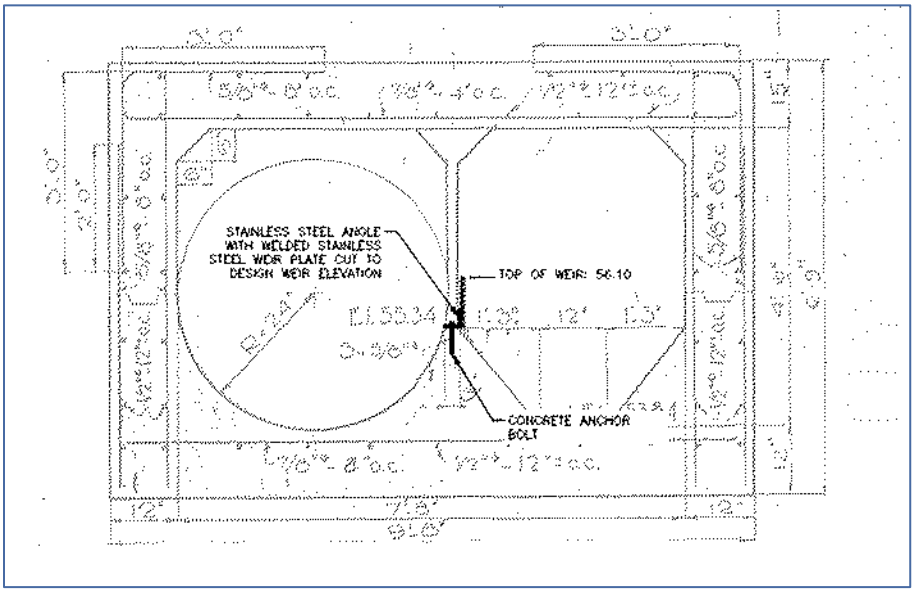


Figure 2-10: Typical Section for Micigan Avenue SPP I mprovements under Michigan Alternative 5B

2.5.5 S. Bailey CSOO53_3.1 SPP338 Modification

2.5.5.1 South Bailey Alternative 5A - Status Quo Alternative

Under this alternative, no improvements would be made to the SPP, resulting in 19 overflow activations and an estimated overflow volume of 33.7 million gallons per year. While there are no costs associated with this alternative, there are no benefits realized either.

2.5.5.2 South Bailey Alternative 5B - In-Line (ILS) Storage

Under this alternative, a new RTC structure would be constructed including a new weir structure and new modulating gates to utilize inline storage upstream of SPP 338 during wet weather events. However, the location of this SPP is in a very busy intersection of Scajaquada Street and Bailey Avenue. As a result, the location is not optimal to maintain the structure and associated RTC gates and requires significant traffic control for entry. Therefore, this alternative was not considered further.

2.5.5.3 South Bailey Alternative 5C - SPP338 Weir Modification 1

Further simulations within the model incorporated a combination of measures within the Selected Alternative to reduce the frequency of overflows at CSO-053. The overflow weir would be raised 1.83 ft from 53.41 ft to 55.24 ft (City datum), and the weir length increased to 30-ft in SPP 338 that diverts flow to the existing drop shaft connection to the Scajaquada Tunnel Interceptor away from the Scajaquada Drain. The design criteria provided from the initial model review for the new weir are shown in **Table 2-13.**

This project would reduce overflows at CSO-053 and would benefit from the implementation of the Schiller Park OLS or Sidney OLS (now being designed as the Sidney RTC structure) that would allow for storage of wet weather flows. Note that the Schiller Park and Sidney projects are currently being completed as separate projects to this SPP modification and that any reductions to the overflow

activations and volumes presented in this report include those projects as part of the overall reduction in overflows.

Table 2-16: Summary of Initial Design Criteria for 338 Modification

Design Parameter	Value
Design Peak Flow	213.38 MGD (330 cfs)
Site Invert Elevation from record plans	52.06 ft (City datum)
Proposed Weir Elevation (48-in brick sewer)	55.24 ft (City datum)
Critical Elevation (based on flow contained within pipe at E-MH-1963)	57.46 (City datum)

2.5.5.4 South Bailey Alternative 5D - Kensington and Poultney RTC

An RTC structure at Kensington Avenue and Poultney Street was modeled as another option that had the potential to decrease activations at SPP338. However, it was found that implementing this structure would not make a large impact on the SPP338 overflow volume in the typical year; therefore, this alternative was not pursued further.

2.5.6 SPP336B Modifications

2.5.6.1 SPP 336B Alternative 5A - Status Quo Alternative

Under this alternative, no improvements would be made to the SPP, resulting in 36 overflow activations and an estimated overflow volume of 92.3 million gallons per year. While there are no costs associated with this alternative, there are no benefits realized either.

2.5.6.2 SPP 336B Alternative 5B – Removal of the Orifice Plate

This alternative includes the removal of the existing orifice plate as shown in **Figure 2-11.** Also necessary for this alternative is the implementation of the Sidney OLS/RTC Project and the Schiller Park OLS, both of which are covered under separate PERs.

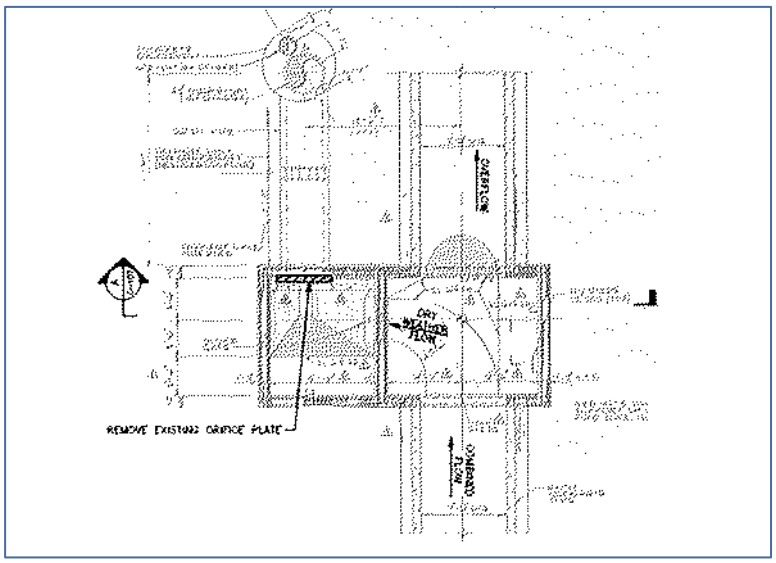


Figure 2-11: Removal of Existing Orifice Plate Under SPP 336 Alternative 5B

SECTION 3 SUMMARY AND COMPARISON OF ALTERNATIVES

Preliminary design drawings for the pursued alternatives are included in **Appendix E** and portions of those drawings have been copied to this section as necessary to describe and compare alternatives.

3.1 Summary and Comparison of Alternatives Evaluated for CSO-053 Compliance

Several system-wide alternatives were considered for achieving the targeted number of four activations to Scajaquada Creek included the following:

- Alternative 1 - Do Nothing (Status Quo Alternative)
- Alternative 2 - Green Infrastructure
- Alternative 3 – Partial Sewer Separation
- Alternative 4 - Deep Tunnel Storage
- Alternative 5 - SPP Modifications and Off-Line Storage

For an apples-to-apples comparison, costs were developed on a high level for the sewershed-wide alternatives. Calculations associated with these costs have been included in **Appendix F.** These costs were determined using the following assumptions:

- For green infrastructure and partial sewer separation cost development, the costs from the 2014 LTCP, expressed on a per tributary area controllable by permeable pavement or redirection of street runoff (in acres) were updated from 2012 dollars (as used in the 2014 LTCP) to 2025 dollars using ENR Construction Cost Indices.
- A market factor of 50% was added onto the 2025 costs for green infrastructure and tunnel options to account for recent patterns in bids received as compared to engineering estimates, and indicative of current construction market conditions.
- A project contingency of 35% (in accordance with New York State Environmental Facilities Corporation guidelines) and an engineering percentage of 15% was added onto the construction cost to obtain a project cost for comparison purposes.
- Deep tunnel costs were estimated based on the same tunnel, dewatering pump station, and piping costs cost curves used in the 2014 LTCP updated to 2025 dollars. In addition, the costs for drop shafts at each SPP noted under the tunnel alternative were taken from costs developed in the evaluation of the Genesee SPP341A drop shaft within this report.

Tables 3-1, 3-2, and 3-3 present summaries of the level of control required to meet the target number of activations, the number of overflows estimated after improvements are constructed, the reduction on overflow activations and volumes, and the associated costs to achieve that reduction in overflows for green infrastructure, partial sewer separation, and deep storage tunnel alternatives.

As discussed in Section 2 and observed in **Tables 3-1** and **3-2**, some shortcomings of Alternatives 2 (green infrastructure) and 3 (partial sewer separation) is that in addition to the relatively high construction costs shown, there are still SPPs that do not achieve the targeted compliance level of four overflow activations using the typical precipitation year, even with a 100% level of control of the tributary area runoff.

Table 3-1: Summary of Overflow Statistics and Costs for Green Infrastructure Implementation (Alternative 2)

Impacted SPP	Required GI Level to Achieve Target Level of Service (%)	No. of Overflows after Improvements		Reduction in Overflows		Cost ($millions)
		OF Vol. (MG)	OF Events	OF Vol. (MG)	OF Events	
165B	Base	0.1	1	0	0	0
175	40	0.8	4	0.5	1	20.8
176		0	0	0	0	
177		0	0	0	0	
336B	Not achieved with 100% GI	35.8	12	56.5	24	153.0
337	Not achieved with 100% GI	8.2	11	18	8	84.4
338	Not achieved with 100% GI	12.6	9	21.1	10	191.8
340	Not achieved with 100% GI	22.8	9	18.8	7	74.5
341A	Not achieved with 100% GI	2.2	5	8.7	9	22.8
	TOTAL	**82.5**	**12**	**123.6**		**$394.3**
		Project Contingency				138.0
		Engineering Contingency				79.8
		Total Cost				**$612.2**

Table 3-2: Summary of Overflow Statistics and Costs for Partial Sewer Separation (Alternative 3)

Impacted SPP	Required Partial Sewer Separation Levels to Achieve Target Level of Service (%)	No. of Overflows after Improvements		Reduction in Overflows		Cost ($millions)
		OF Vol. (MG)	OF Events	OF Vol. (MG)	OF Events	
165B	Base	0.1	1	0	0	0
175	40	0.9	4	0.4	1	18.5
176		0	0	0	0	
177		0	0	0	0	
336B	Target not achieved	2.6	5	89.7	31	135.8
337	Target not achieved	5.5	11	20.7	8	74.8
338	80	2.2	4	31.5	15	136.1
340	100	2.8	4	38.8	12	66.1
341A	80	1.2	4	9.7	10	16.2
	TOTAL	**15.3**	**11**	**190.8**		**$447.6**
		Project Contingency				156.7
		Engineering Contingency				90.6

		Total Cost	**$694.9**

Table 3-3: Summary of Overflow Statistics for Deep Storage Tunnel (Alternative 4)

Impacted CSOs	SPP Modification Projects	No. of Overflows after Improvements		Cost ($millions)
		OF Vol. (MG)	OF Events	
006, 053	From Table 2-8	57.1	3	$350.9

Table 3-4 presents the summary of estimated capital costs for the tunnel alternative that was used in **Table 3-3**.

Table 3-4: Summary of Estimated Costs for Deep Storage Tunnel (Alternative 4)

					Unit Cost	Capital Cost ($millions)
Length of needed tunnel	25400	ft		Tunnel	--	68.2
Diameter of needed tunnel	12	ft		Dewatering PS	--	27.6
Volume of needed tunnel	21	MG		Adits (per LF)	$ 547.66	4.3
Dewatering capacity	21	MGD		Dewatering FM (per LF)	$ 243.57	0.24
(assumes dewatering over a 24 hour period)				Dropshafts (12)	$ 4,200,000	50.4
					Market Factor	75.3
Total Length of Adits	7795	ft			***SUBTOTAL***	***$ 226.0***
Average Adit Diameter	3	ft			***Project Contingency***	79.1
					Engineering Contingency	45.8
Force Main Diameter	24	in			***TOTAL COST***	**$ 350.9**
Force Main Length	1000	ft				

In addition to the capital costs associated with the implementation of the deep tunnel storage, it is estimated that the annual operations and maintenance costs for maintaining the dewatering pumping station would be approximately $1.08 million as shown in **Table 3-5**.

Table 3-5: Estimated Annual Operations and Maintenance Costs for Tunnel Dewatering Pump Station.

Estimated Annual Operations and Maintenance Costs						
Electricity Cost ($/kWhr):	$ 0.10			Power	$	237,000
Efficiency (%):	67%			Dewatering Materials	$	61,000
Dynamic Head (ft)	125	ft		Dewatering Labor	$	77,000
Total Volume pumped annually	265	MG		Tunnel O&M	$	608,000
				SUBTOTAL	***$***	***983,000***
				O&M Contingency	***$***	***98,300***
				TOTAL Annual O&M	***$***	***1,081,300***

Table 3-6 shows a summary of the overflows statistics and associated costs developed for Alternative 5, which was a combination of SPP modification projects and off-line storage facilities.

Table 3-6: Summary of Overflow Statistics and Costs for Sewer Modifications and Off-Line Storage (Alternative 5)

Impacted SPP	SPP Modification Projects	No. of Overflows after Improvements		Reduction in Overflows		Cost ($millions)
		OF Vol. (MG)	OF Events	OF Vol. (MG)	OF Events	
165B	No project necessary at this site because SPP is in compliance based on recent field observations	0.1	1	0	0	--
175	Increasing weir heights in the three SPPs	0	0	1.3	5	0.13
176		0	0	0	0	
177		0	0	0	0	
336B	Constructing a 3.26 MG buried concrete tank, diversion structure and tank inlet and outlet sewers (Sidney OLS), removal of the orifice plate in SPP 336B	4.8	2	87.5	34	44.62
337	Installation of a new vortex-style drop shaft to the Scajaquada Tunnel to accommodate a peak flow of 48 MGD	1.8	4	24.4	15	7.03
338	Installing longer/higher weir within the SPP.	0	0	33.7	19	0.16

Impacted SPP	SPP Modification Projects	No. of Overflows after Improvements		Reduction in Overflows		Cost ($millions)
		OF Vol. (MG)	OF Events	OF Vol. (MG)	OF Events	
340	Constructing a 2.61 MG buried concrete tank, diversion structure and tank inlet and outlet sewers (Edison Martha OLS)	5.6	3	36	13	38.65
341A	Installation of a new vortex-style drop shaft to the Scajaquada Tunnel to accommodate a peak flow of 26.4 MGD	0	0	10.9	14	4.22
	TOTAL	**12.3**	**4**	**182.9**	**-**	**$94.82**
		Project Contingency				33.19
		Engineering Contingency				19.20
		Total Cost				**$147.20**

Alternative 1 ("No Action" or Status Quo Alternative) was automatically disqualified as performing no additional actions would still result in 36 overflows with a total volume of 206.1 million gallons per year in the CSO-053 sewershed. This is far from the LTCP compliance target of 4 overflow activations per year for the Scajaquada Creek receiving waterbody.

Based on the above evaluation of benefits and associated costs, Alternatives 2 (green infrastructure) and 3 (partial sewer separation) were eliminated from further consideration, due to:

- Costs in excess of $600 million
- Full LTCP compliance was not achieved, even with 100% redirection of street runoff.

Both the Tunnel Alternative 4 and the SPP Modifications and Off-Line Storage Alternative 5 results in achieving four or fewer activations in the typical year, which meets the requirement of the LTCP. However, it was noted that the capital cost for Alternative 5 is less than half of the capital cost for Alternative 3. Additionally, there is an annual O&M cost of approximately $1 million for Alternative 3. Accordingly, it is more cost effective to implement Alternative 5.

3.2 Summary and Comparison of Alternatives Evaluated for SPP-Specific Improvements

As discussed also in Section 2, within the main SPP modification alternative (Alternative 5), various sub-alternatives were also evaluated. The following presents a summary of those modifications and the resulting design criteria.

3.2.1 Colorado Avenue – CSO053_2.5 SPP 337 Modification

The primary evaluation of alternatives at SPP337 involved the type of drop shaft to be implemented. Three different types of drop shafts (plunge, baffle, and vortex) were evaluated and described in Section 2.51.7.

Since the SPP 337 site is extremely limited in the amount of real estate available for construction of a new drop shaft, a new vortex style drop shaft was recommended as it provides the increase in flow capacity in the connection to the tunnel, efficient energy dissipation in a smaller footprint, and doesn't require the

long deaeration chamber that a new plunge drop shaft would require. Table 2-13 summarizes the design criteria for the new vortex style drop shaft under recommended Colorado Alternative 5G3.

Table 3-7: Summary of Design Criteria for SPP 337 Vortex Style Drop Shaft

Design Parameter	Value
Peak typical Year Water Surface elevation in Scajaquada Tunnel	40.02 ft (City datum)
Peak Flow in Drop Shaft	48 MGD (increased from 16.61 MGD)
Peak Water Surface Elevation at SPP	54.97 ft (City datum)

To simplify the design, and work within the small footprint of real estate available, the new drop shaft will be connected directly to a new diversion chamber constructed in line with the existing sewer along Colorado Avenue. Flow will enter the diversion chamber and be directed towards the drop shaft as the primary flow path. Any high flow event that exceeds the 48 MGD flow for the new drop shaft connection will pass over a weir in the structure and continue down the sewer in Colorado Avenue which outlets to the Scajaquada Drain.

Construction sequencing and bypass pumping during the drop shaft replacement are being addressed in detailed design. A new manhole access point could be created in the combined sewer crown along Colorado Avenue upstream of the proposed diversion chamber to access the flow. From that point, flow could be bypass pumped to the tunnel through an adjacent access shaft located next to the SPP. It is anticipated that the current capacity of the drop shaft, 16.6 MGD, would be the minimum bypass pump capacity and wet weather flows would continue to bypass the site as they do currently. This will also require the existing SPP drop shaft connection to the tunnel to be temporarily bulkheaded and sealed at the tunnel interface to create a dry work area for the drop shaft replacement work.

Figures 2-2 and 2-3 show the proposed configuration for this alternative at SPP 337.

3.2.2 Humboldt Parkway – CSO053_13 SPP165B Modification

While Humboldt Alternative 5B was originally advanced, subsequent field investigations (described in Sections 1.3.1.4 and 2.5.3.2) resulted in changes within the collection system that now shows SPP 165B in compliance under current conditions. Therefore, Humboldt Alternative 5A – Status Quo Alternative was selected as no additional improvements are not required to achieve the targeted four overflow activations per year. In fact, the changed configuration in the model indicates that only one overflow event is projected in the typical year, with an annual overflow volume of approximately 0.1 MG at this location.

3.2.3 Genesee Street – CSO053_8 SPP341A Modification

The plunge style drop structure was eliminated from consideration at due to the additional cost associated with extending the existing deaeration chamber, need for a larger diameter deaeration chamber than the existing, and the large plunge pool required to dissipate the energy of the falling flow.

While there is plenty of room for construction of a baffle drop structure in this location, the added construction complexity and, consequently, the cost associated with construction of this style of structure, it was determined that the vortex style drop structure would be the most cost-effective solution to achieving the desired increased capacity.

The small footprint of the vortex plunge design combined with its ability to reuse the existing tunnel connection from the existing drop shaft make this style drop shaft the preferred alternative. Design criteria are given below in **Table 3-7** for recommended Genesee Alternative 5B3.

Table 3-8: Summary of Design Criteria for SPP 341A New Vortex Style Drop Shaft

Design Parameter	Value
Peak Typical Year Water Surface Elevation in Scajaquada Tunnel	41.2 ft (City datum)
Peak Water Surface Elevation at SPP	55.96 ft (City datum)
Total Drop Shaft Flow	26.4 MGD
Drop Shaft Flow from SPP341A only	25 MGD
Drop Shaft Flow from SPP341B only	1.4 MGD

The drop shaft replacement would be constructed next to the existing drop shaft and completed offline. During detailed design, the goal will be to design a connection between the existing and proposed drop shaft that could be completed in the wet to save money on pumping costs. However, there is a potential that temporary modifications to the existing drop shaft connection to the tunnel will be required to allow bypass pumping of flows around the existing drop shaft for a short period of time for removal and connection of the new drop shaft to the existing drop shaft. To be conservative, the cost estimate for this project includes short term bypass pumping.

3.2.4 Michigan Ave – CSO053_14 SPP175, SPP176, and SPP177 Modifications

Modification of the existing weirs under Michigan Alternative 5B is necessary to achieve compliance in this area as the Status Quo alternative did not result in any benefit. The existing weirs are constructed of concrete which poses a challenge for making the small height adjustments required above without substantial removal of existing concrete necessary to properly bond a new layer of concrete to a taller elevation. In lieu of concrete removal, weir modifications will be designed from fabricated stainless steel so they can be anchored into the existing concrete. BSA sewer maintenance staff have confirmed that the weirs at these three SPPs are flat-topped weirs making raising of the weirs simpler than if the weirs were of some other configuration. This reduces the amount of work required to modify the existing structure, thereby reducing the amount of time workers will need to be in the sewer to do that work, improving safety.

3.2.5 S. Bailey CSOO53_3.1 SPP338 Modification

Given the alternatives for this SPP, modifications to SPP338 are required to install a new weir as described in S. Bailey Alternative 5C.

The typical equation for weir design is

$$Q = {}^{2}/_{3}\, C_d L \sqrt{2gH^{1.5}}$$

Where Q = discharge in cfs; L = length of weir in feet, g = acceleration of gravity, H = total head at the crest of the weir, and C_d = dimensionless discharge coefficient that varies based on the head, upstream pool depth, and type of weir.

To pass the design peak flow without impacting the critical upstream elevation, the weir must not create more than 2.22-ft of head at the design peak flow. A typical linear weir matching the dimensions of the

existing weir, would have over 3.7-ft of head at the design peak flow. To reduce the head, a longer, more efficient weir is needed. However, due to the space constrictions, the only way to lengthen the weir is to utilize a labyrinth style weir.

Labyrinth weirs fold in plan view (**Figure 3-4**) to provide longer total effective weir lengths within a given footprint. The constructability of a new weir at this location is difficult due to access, flow control/dewatering, and is further complicated by the horizontal curvature in the alignment of the existing weir. As such, it is recommended that the proposed weir modifications will be designed as fabricated stainless steel which can be made in a fabrication shop and installed in pieces small enough to fit through the 36-inch manhole opening in the structure and mounted on the surface of the existing concrete weir crest. In addition, the steel weir plate minimizes the amount of formwork and water control needed to make the weir modifications.

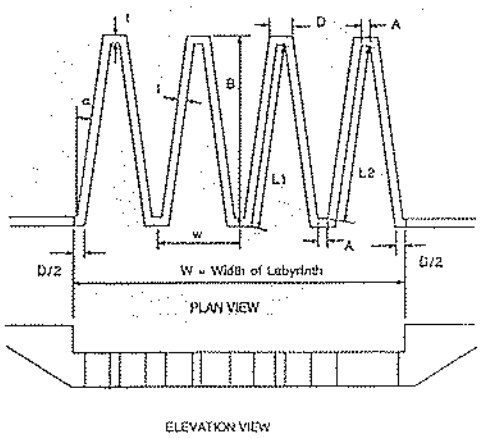


Figure 3-1 Typical labyrinth weir configuration

Labyrinth weirs generally have lower discharge coefficients (C_d) than linear weirs. The C_d is impacted by the head above the weir (H), pool depth behind the weir (P), the angle between folds, and the flow within the nape. The most efficient labyrinth weirs are those with the highest α value, or angle from perpendicular to flow. Higher α values also lead to wider weirs to accommodate the same weir length. A concern with the use of a labyrinth weir in this application is that rags or other debris may get caught in the folds, reducing the efficiency and/or the effective length of the weir; therefore, utilizing a larger angle is recommended.

Two potential weir layouts (**Figure 3-2**) were evaluated for preliminary alternatives:

- 35° Labyrinth Weir with length of 35 LF, tight configuration on existing weir.
- 18° Labyrinth Weir with length of 35 LF, expanded configuration on through tunnel.

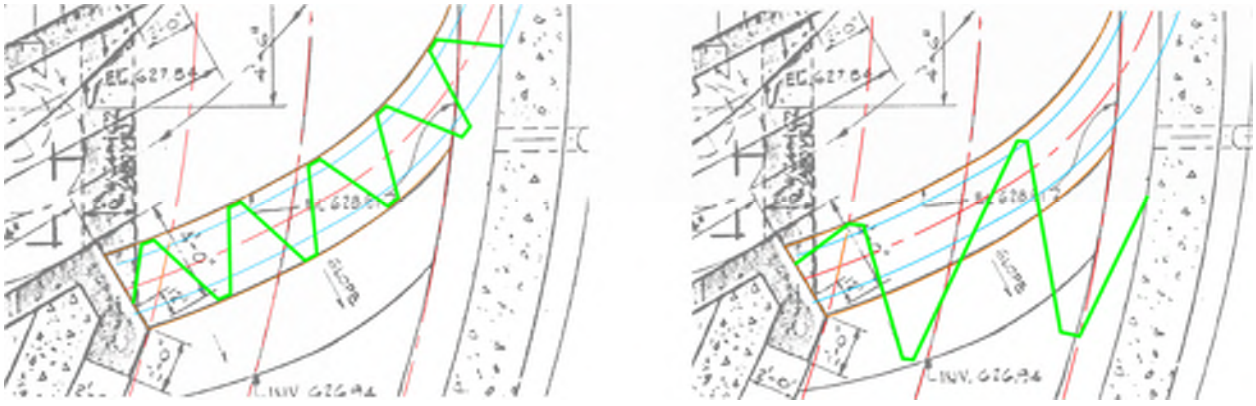


Figure 3-2: Compact weir layout (left), expanded weir layout (right)

The compact layout would be easier to construct and appears to meet the design criteria; however, at the peak design with 2-ft of head over the crest of the weir, the tight configuration may lead to increased head due to flow within the nape. The expanded layout on the right would likely operate with less head during higher flow events.

However, during design of this weir, additional modeling was conducted that would lower the length of the weir to 1.5-ft and modify the height of the weir to obtain similar results. The shorter length of weir would also mitigate some of the concerns with debris capture and would be easier to install. Table 3-9 summarizes the revised design parameters.

Table 3-9: Revised Design Parameters for SPP 338 Weir

Parameter	Required Design Value
Design peak flow, mgd	213.38
Weir coefficient, Cd	3.33
Weir Length, ft.	19.50
Site Invert Elevation, ft.	52.06
Maximum (Design) Weir Elevation, ft.	54.50
Critical Elevation, ft.	57.46
Critical Elevation Basis	contained in pipe at E-MH-1863 (Ericson & Wecker)

Note: Revised design reflects outcome of fd4167b experiment, which showed that reducing weir height/length did not affect typical year compliance for SPP338.

3.2.6 SPP 336B Modification

Because removal of the orifice plate in SPP 336B is critical to the overall reduction of overflows in the area tributary to SPP 336B, along with implementation of the Sidney OLS or RTC project and, ultimately, the Schiller Park OLS, the status quo alternative is not viable. Therefore, the recommended alternative for this SPP modification is SPP 336B Alternative 5B.

SECTION 4 RECOMMENDED CAPITAL PROJECT

Section 3 discussed the evaluation and selection of the preferred alternatives for the SPP sites contemplated in this report, which collectively are the recommended capital projects:

- CSO053_2.5 SPP337 Modification – Colorado Avenue at Scajaquada Street – **Colorado Alternative 5G3** (as described in Sections 2.5.1.7 and 3.2.1). Installation of a new vortex-style drop shaft to the Scajaquada Tunnel to accommodate a new peak underflow of 48 MGD.
- CSO053_13 SPP165B Modification – East Delavan Avenue at Humboldt Parkway – Humboldt **Alternative 5A – Status Quo Alternative**. No improvements are necessary as recent field investigations have resulted in changes to the collection system model configuration and have caused the SPP to now comply with the target number of activations.
- CSO053_3.1 SPP338 Modification – Bailey Avenue near Kerns Avenue and Scajaquada Street **South Bailey Alternative 5C** (as described in Section 2.5.5.3 and revised as described in Section 3.2.5). Installation of a new labyrinth weir to increase weir length from 14.75 ft to 19.5-ft and raise the height of the weir.
- CSO053_8 SPP341A Modification – Genesee Street near Kerns Avenue – **Genesee Alternative 5B3 (as described in Sections 2.5.3.2 and 3.2.5)**. Installation of a new vortex-style drop shaft to the Scajaquada Tunnel to accommodate a new peak underflow of 26.4 MGD.
- CSO053_14 SPP175, 176, and 177 Modifications – Michigan Avenue at Dodge Street, Riley Street, and Glenwood Avenue, respectively – **Michigan Alternative 5B** (as described in Section 2.5.4.2). Increasing the weir heights in the three SPPs.
- SPP 33B Modifications – Humboldt Parkway north of Sidney Street – **SPP 336B Alternative 5B** (as discussed in Section 2.5.6.2). Remove orifice plate.

4.1 Opinion of Probable Construction Costs

Opinions of probable construction costs (OPCCs) were determined for each of the preferred alternatives and are summarized in **Table 4-1**. Detailed cost estimates are included in **Appendix F**. Note that costs were rounded to the nearest $1,000 in this table so totals differ slightly from the values in Appendix F because of rounding of values. Note that the cost for removing the underflow orifice plate in SPP336B is not included here because it has been assumed that BSA can complete the work themselves and the relative cost to do so is relatively negligible as opposed to the cost of the remainder of the projects.

Table 4-1: Summary of OPCC for the Recommended SPP Modifications Capital Projects

Project Component	OPCC (2024 Dollars)	OPCC (2027 Dollars)	Engineering (2027 Dollars)	Misc. (2027Dollars)	Contingency (2027 Dollars)	TOTAL (2027 Dollars)
Colorado Ave – CSO053_2.5 SPP337 Modification	$7,738,000	$8,588,000	$2,576,000	$429,000	$4,058,000	$15,652,000

Project Component	OPCC (2024 Dollars)	OPCC (2027 Dollars)	Engineering (2027 Dollars)	Misc. (2027Dollars)	Contingency (2027 Dollars)	TOTAL (2027 Dollars)
Genesee Street – CSO053_8 SPP341A Modification	$4,224,000	$4,689,000	$1,407,000	$235,000	$2,215,000	$8,545,000
Michigan Ave – CSO053_14 SPP175, SPP176, and SPP177 Modifications	$133,000	$148,000	$44,000	$7,000	$70,000	$269,000
S. Bailey CSOO53_3.1 SPP338 Modification	$159,000	$176,000	$53,000	$9,000	$83,000	$321,000
TOTAL CAPITAL COST	**$12,254,000**	**$13,601,000**	**$4,080,000**	**$680,000**	**$6,426,000**	**$24.787,000**

Notes: *Engineering assumed at 30% of OPCC, **Miscellaneous for legal and administration at 5% of OPCC, and Contingency at 35% of total of OPCC, Engineering, and Miscellaneous (per EFC recommendation). Escalation to midpoint of construction in Feb 2027 at 4% per year.

Capital costs were developed for each project (even those that may not be implemented in the short-term) and are presented in Feb 2027 (estimated midpoint of construction) dollars. Costs were developed using New York State Department of Transportation costs and costs from recently estimated projects. Opinions of probable construction costs (OPCC) are consistent with Class III estimates as defined by the Association for the Advancement of Cost Engineering (AACE). Class III estimates are typically -15 percent to +20 percent accurate (AACE, 2012) and are estimated when the project is only approximately 10 to 40 percent defined. This level of accuracy is typically considered sufficient for design development, budget authorization, and feasibility level evaluations.

4.2 Next Steps

Tables 4-2, 4-3, and 4-4 below summarize the expected completion dates for the projects, along with the most recent regulatory dates (as of December 31, 2024). Note that there may be different deadlines for the different components of this project and therefore, the different tables show the applicable dates associated for the various modifications. In addition, the schedules consider that:

- SPP 336B, 175, 176, and 177 Modifications are to be issued for bid under a single construction contract.
- SPP 341A Modifications will be issued for bid under a separate construction contract that follows the same schedule as the SPP 336B, 175, 176, and 177 Modifications Project noted above.
- SPP 337 will be issued to the contractor currently working on the Scajaquada Creek and Black Rock Canal Smart Sewer Project as a change order to their existing contract.

Table 4-2: Proposed Schedule and Regulatory Completion Dates for SPP 341A, 336B, 175, 176, and 177 Modifications

SCHEDULE FOR SPP 341A, 336B, 175, 176, 177 Modifications	Anticipated Completion Date	Regulatory Completion Dates
Design Completion	Summer 2025	December 31, 2025
Regulatory Review	Fall 2025	---
Bidding	Fall 2025/ Winter 2026	December 31, 2025 (same as design completion)
Construction Start Date (Notice to Proceed)	Spring 2026	June 30, 2026
Construction End Date	Fall 2027	December 31, 2027

Table 4-3: Proposed Schedule and Regulatory Completion Dates for SPP 337 Modifications

SCHEDULE FOR SPP 337	Anticipated Completion Date	Regulatory Completion Dates
Design Completion	Winter 2026	June 30, 2026
Regulatory Review	Spring 2026	---
Bidding	Winter/ Spring 2026	June 30, 2026 (same as design completion)
Construction Start Date (Notice to Proceed)	Fall 2026	December 31, 2026
Construction End Date	Fall 2028	December 31, 2028

Table 4-4: Proposed Schedule and Regulatory Completion Dates for SPP 338 Modifications

SCHEDULE FOR SPP 338 (Note that is project is projected to be completed approximately 4 years early)	Anticipated Completion Date	Regulatory Completion Dates
Design Completion	Winter 2025	December 31, 2026
Regulatory Review	Winter 2025	---
Change order to existing Smart Sewer Project	Winter/ Spring 2025	December 31, 2026
Construction Start Date (Notice to Proceed)	Spring 2025	June 30, 2027
Construction End Date	Fall 2025	December 31, 2029

SECTION 5 REFERENCES

BSA Queen City Clean Waters Program Alternatives and Design Log, May 13, 2024, Xylem

Buffalo Sewer Authority 2024-2025 Operating Budget, BSA Administrative Department, available at: 2024-2025-BSA-Budget-1.pdf (buffalosewer.org)

Buffalo Sewer Authority Comprehensive Annual Financial Report (CAFR) for Fiscal Year Ended June 30, 2023, BSA Administrative Department, available at Buffalo-Sewer-Authority-ACFR-6.30.2023.pdf (buffalosewer.org)

Environmental Site Remediation Database Search details for 1001 East Delavan Avenue Site, NYSDEC.

LTCP Optimization Bridging Document, technical memorandum. Xylem, Arcadis, GHD, and JM Davidson Engineering. May 2023.

LTCP Optimization Selected Alternative, technical memorandum. Xylem, Arcadis, GHD, and JM Davidson Engineering. Draft Jan 2023.

Record Drawings for the Associated SPPs, dates vary.

Remedial Investigation Report, Brownfield Cleanup Program Site #C915196B, 1001 East Delavan Avenue, Buffalo, NY. Inventum Engineering, PC, Draft Oct 2023.

Scajaquada Tunnel Interceptor Facility Plan, Step 1, Section VII, The Selected Plan, Leonard S. Wegman Co. Inc., February 1976

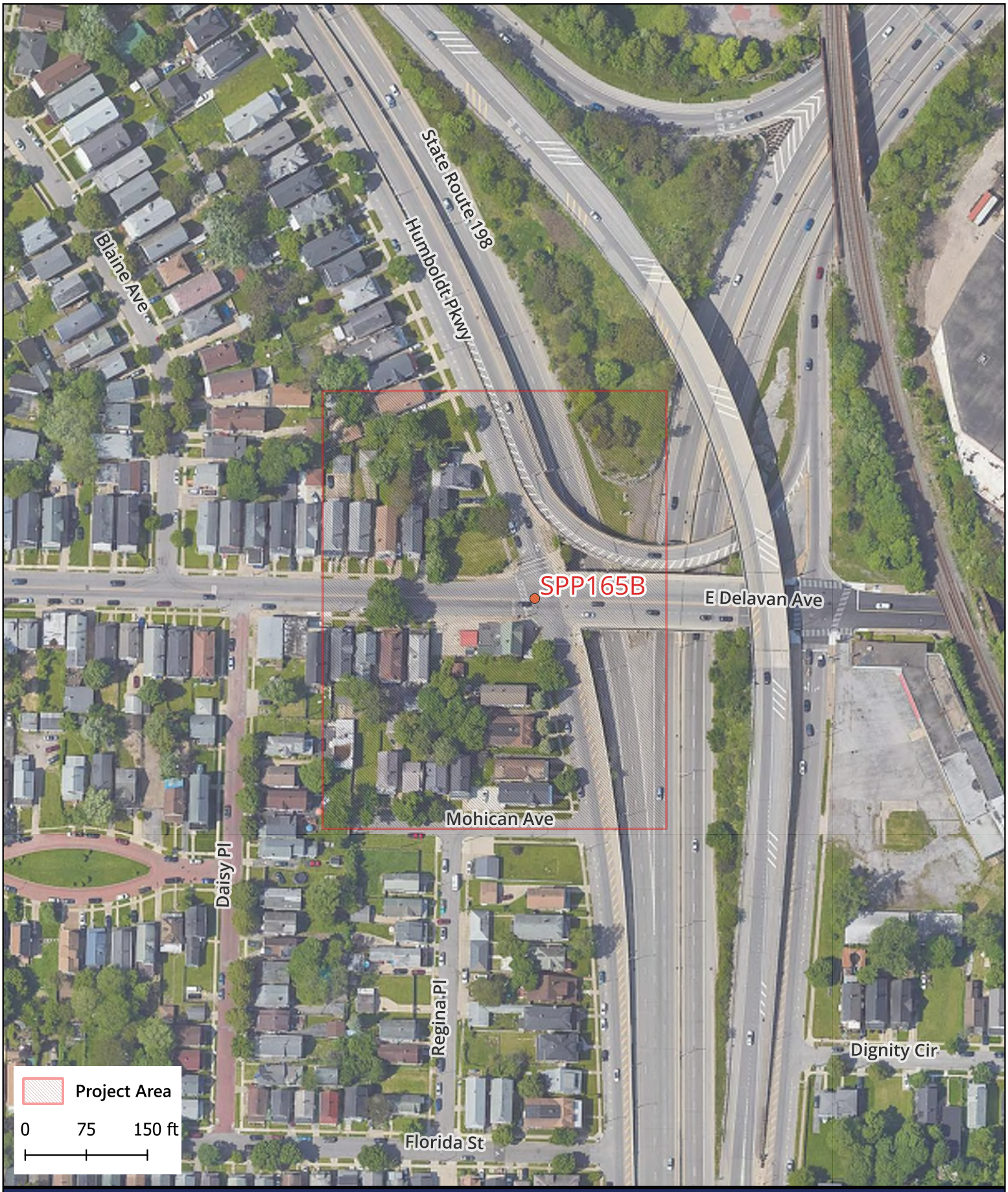
APPENDIX A: Site Maps

APPENDIX A

BUFFALO SEWER AUTHORITY

CSO053_2.5 SPP337 MODIFICATION

JMDavidson Engineering, D.P.C.



APPENDIX A

BUFFALO SEWER AUTHORITY

CSO053_13 SPP165B MODIFICATION

JMDavidson Engineering, D.P.C.

APPENDIX A

BUFFALO SEWER AUTHORITY

CSO053_3.1 SPP338 MODIFICATION

JMDavidson Engineering, D.P.C.

APPENDIX A

BUFFALO SEWER AUTHORITY

CSO053_8 SPP341A MODIFICATION

JMDavidson Engineering, D.P.C.

APPENDIX A

BUFFALO SEWER AUTHORITY

CSO053_14 SPP175 MODIFICATION

JMDavidson Engineering, D.P.C.

APPENDIX A

BUFFALO SEWER AUTHORITY

CSO053_14 SPP176 MODIFICATION

JMDavidson Engineering, D.P.C.

APPENDIX A

BUFFALO SEWER AUTHORITY

CSO053_14 SPP177 MODIFICATION

JMDavidson Engineering, D.P.C.

APPENDIX B: Geological Information

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Erie County, New York
Survey Area Data: Version 23, Sep 5, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 9, 2022—Aug 15, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Soil Map—Erie County, New York
(CSO053_2.5 SPP337 Modification)

Map Scale: 1:2,140 if printed on A portrait (8.5" x 11") sheet.

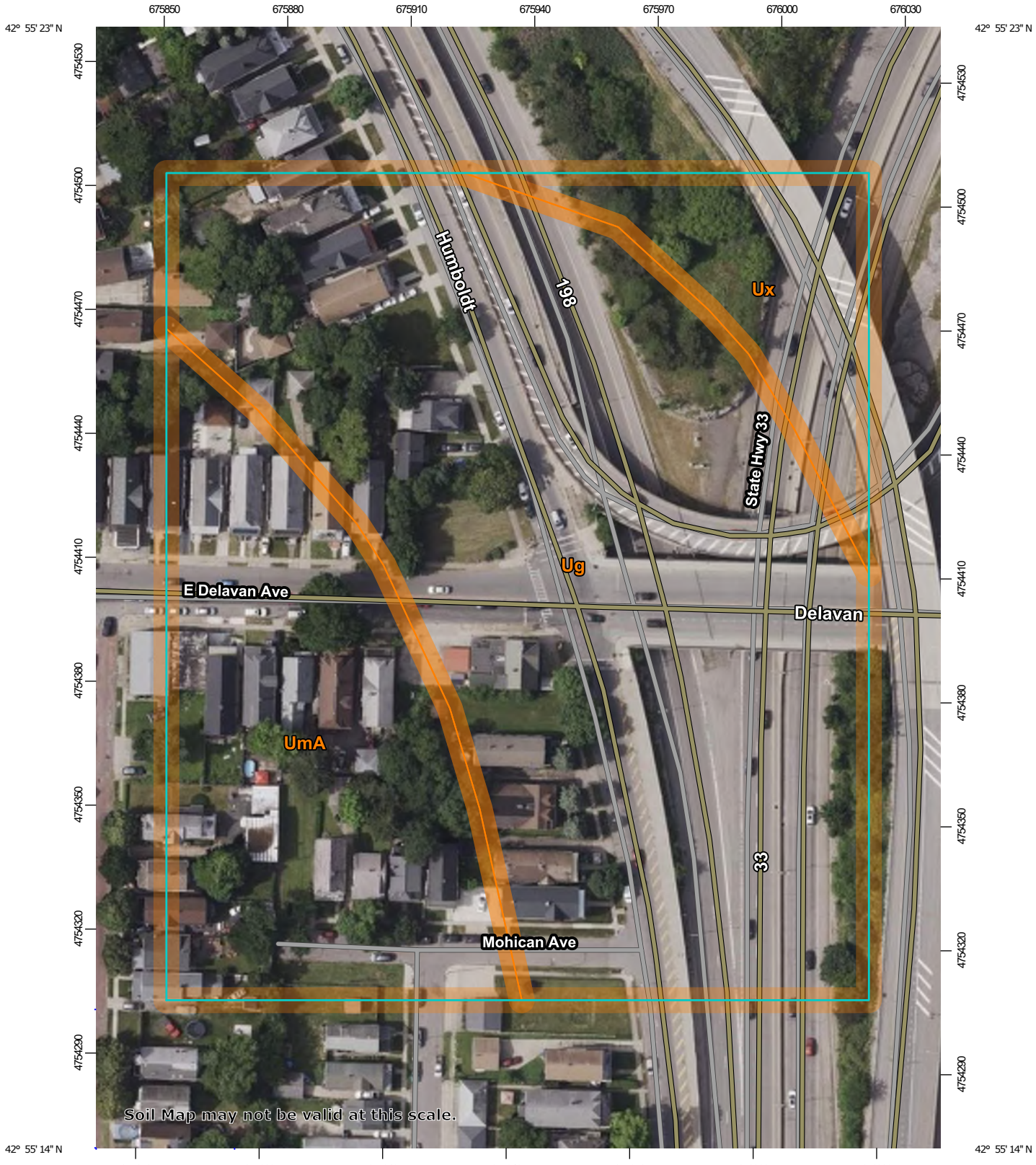
N

Meters: 0 30 60 120 180

Feet: 0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

Soil Map—Erie County, New York
(CSO053_13 SPP165B Modification)



Map Scale: 1:1,320 if printed on A portrait (8.5" x 11") sheet.

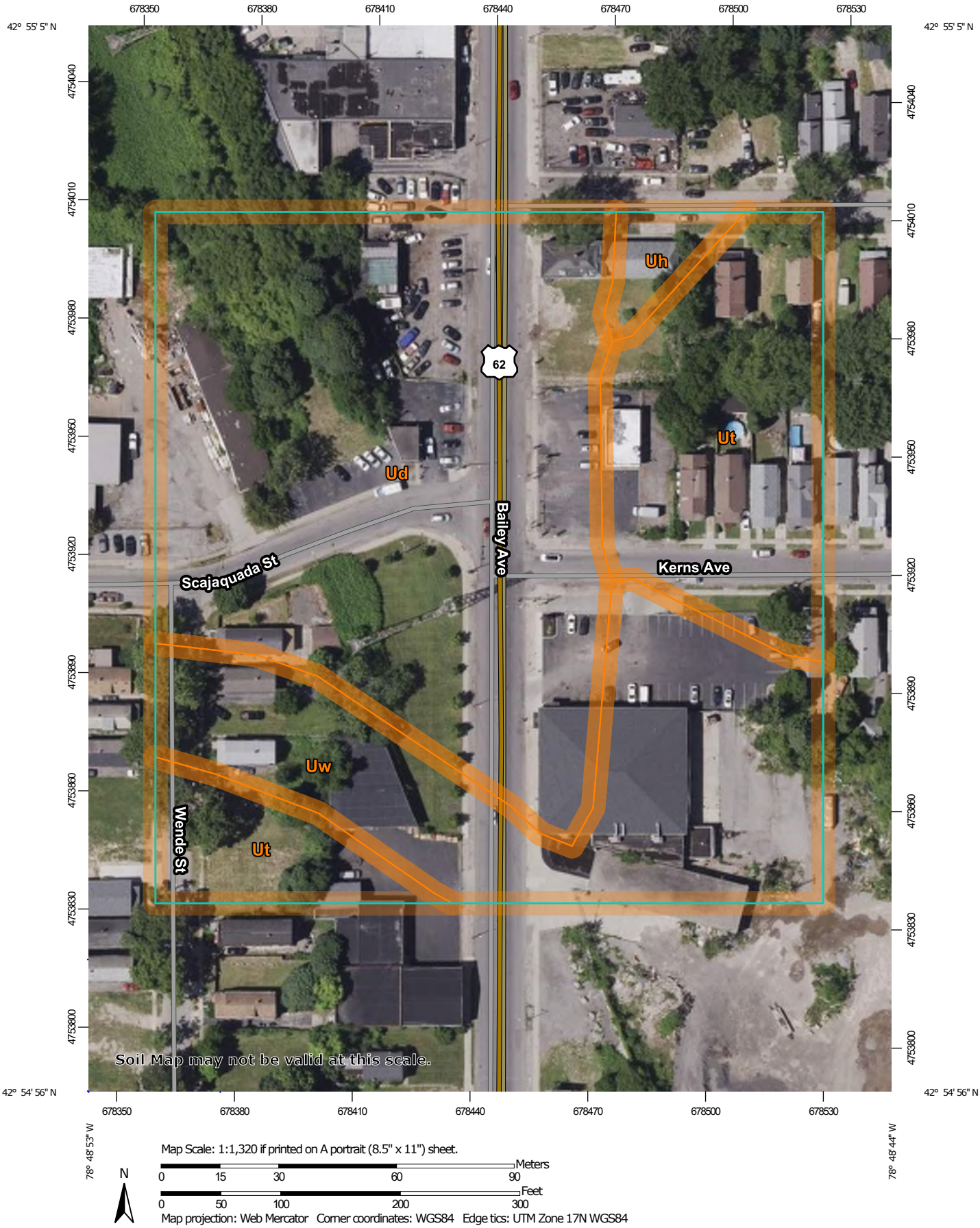
N

Meters
0 15 30 60 90

Feet
0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

Soil Map—Erie County, New York
(CSO053_3.1 SPP338 Modification)



Map Scale: 1:1,320 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 15 30 60 90

Feet: 0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

Soil Map—Erie County, New York
(CSO053_8 SPP341A Modification)

Map Scale: 1:1,480 if printed on A landscape (11" x 8.5") sheet.

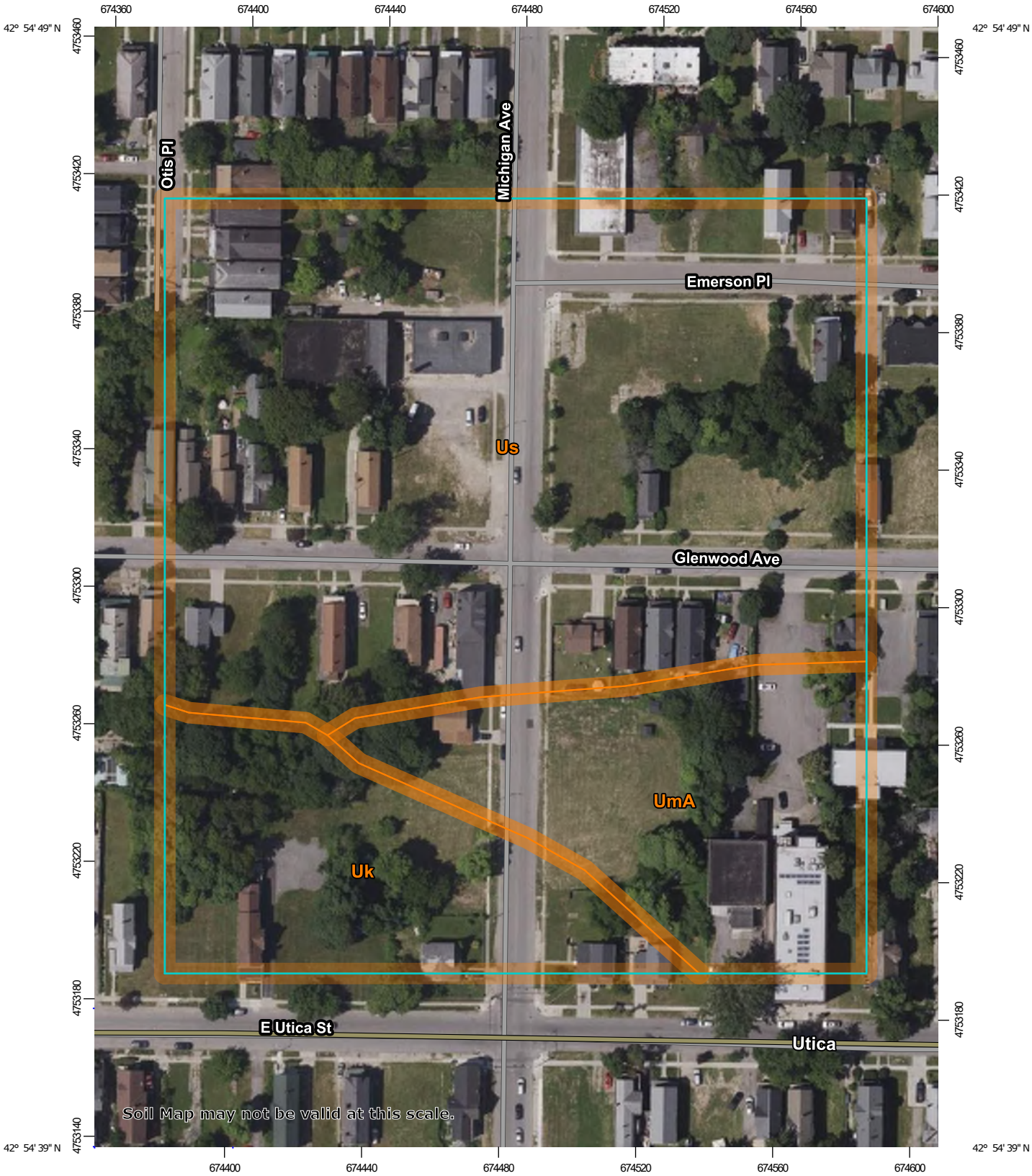
N

Meters
0 20 40 80 120

Feet
0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

Soil Map—Erie County, New York
(CSO053_14 SPP177 Modification)



Map Scale: 1:1,590 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 20 40 80 120

Feet: 0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

Soil Map—Erie County, New York
(CSO053_14 SPP176 Modification)

Map Scale: 1:1,250 if printed on A landscape (11" x 8.5") sheet.

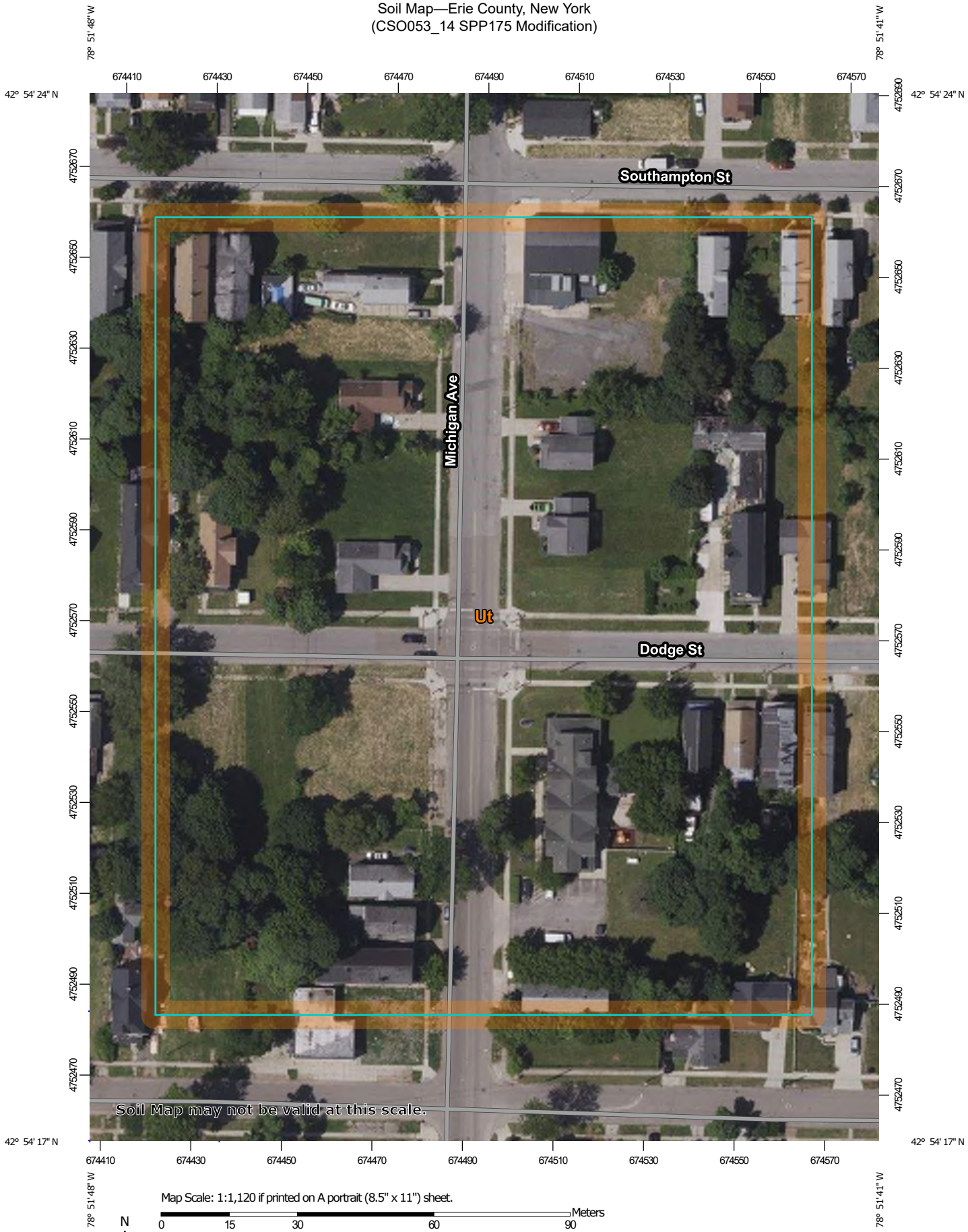
N

Meters
0 15 30 60 90

Feet
0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

Soil Map—Erie County, New York
(CSO053_14 SPP175 Modification)



Map Scale: 1:1,120 if printed on A portrait (8.5" x 11") sheet.

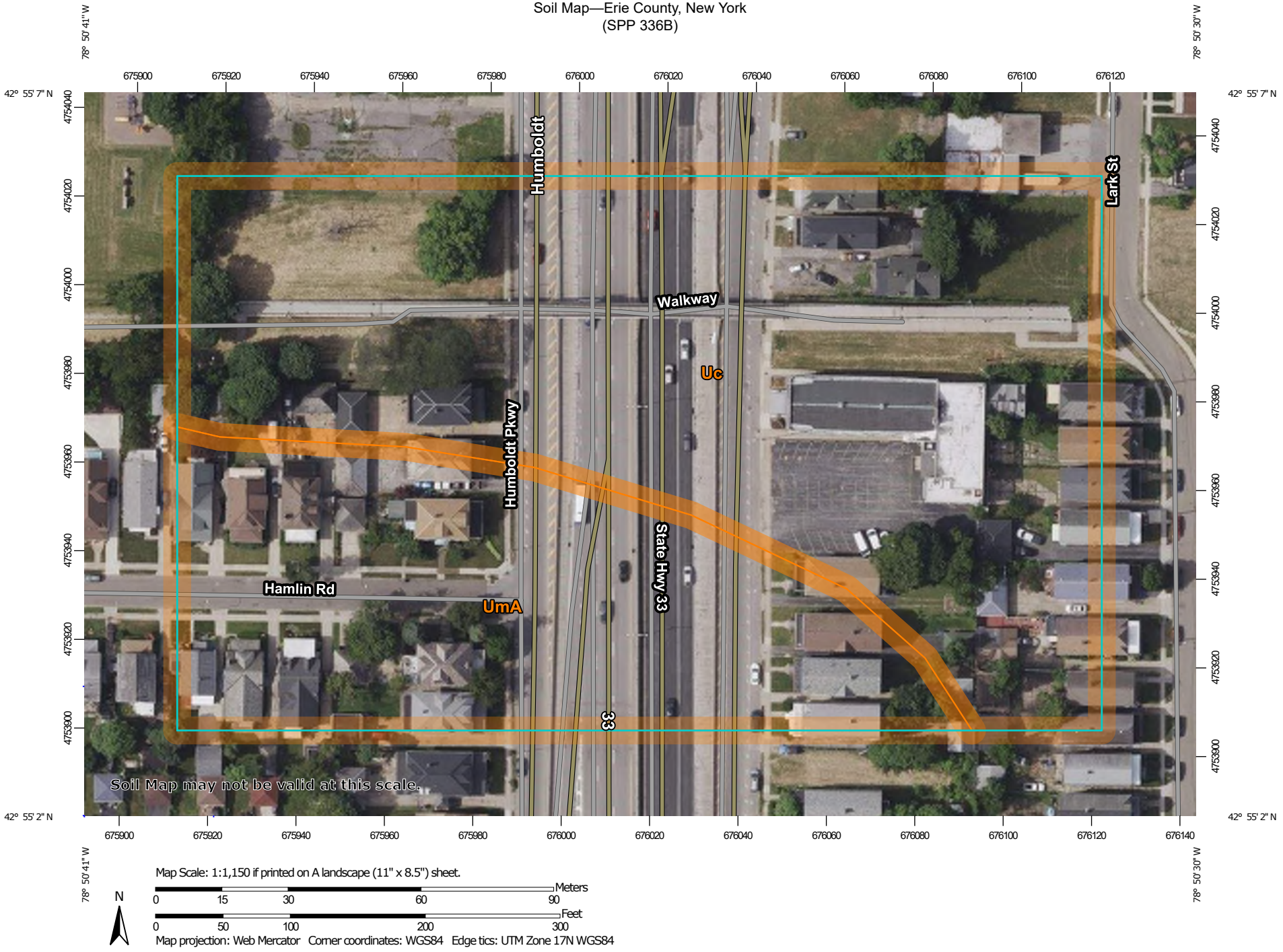
N

Meters
0 15 30 60 90

Feet
0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

Soil Map—Erie County, New York
(SPP 336B)



Map Scale: 1:1,150 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 15 30 60 90

Feet: 0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

Uc—Udorthents, smoothed

Map Unit Setting

- *National map unit symbol:* 9rq3
- *Elevation:* 560 to 1,390 feet
- *Mean annual precipitation:* 36 to 48 inches
- *Mean annual air temperature:* 45 to 50 degrees F
- *Frost-free period:* 115 to 195 days
- *Farmland classification:* Not prime farmland

Map Unit Composition

- *Udorthents and similar soils:* 75 percent
- *Minor components:* 25 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Udorthents

Properties and qualities

- *Slope:* 0 to 15 percent
- *Depth to restrictive feature:* More than 80 inches
- *Drainage class:* Moderately well drained
- *Depth to water table:* About 36 to 72 inches
- *Frequency of flooding:* None
- *Frequency of ponding:* None

Interpretive groups

- *Land capability classification (irrigated):* None specified
- *Land capability classification (nonirrigated):* 7s
- *Hydric soil rating:* No

Minor Components

Chippewa

- *Percent of map unit:* 5 percent
- *Landform:* Depressions
- *Hydric soil rating:* Yes

Odessa

- *Percent of map unit:* 5 percent
- *Hydric soil rating:* No

Hudson

- *Percent of map unit:* 5 percent
- *Hydric soil rating:* No

Appleton

- *Percent of map unit:* 5 percent
- *Hydric soil rating:* No

Langford

- *Percent of map unit:* 5 percent
- *Hydric soil rating:* No

Ud—Urban land

Map Unit Setting

- *National map unit symbol:* 9rq4
- *Mean annual precipitation:* 36 to 48 inches
- *Mean annual air temperature:* 45 to 50 degrees F
- *Frost-free period:* 115 to 195 days
- *Farmland classification:* Not prime farmland

Map Unit Composition

- *Urban land:* 80 percent
- *Minor components:* 20 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Ug—Urban land-Cayuga complex

Map Unit Setting

- *National map unit symbol:* 9rq7
- *Elevation:* 570 to 710 feet
- *Mean annual precipitation:* 36 to 48 inches
- *Mean annual air temperature:* 45 to 50 degrees F
- *Frost-free period:* 115 to 195 days
- *Farmland classification:* Not prime farmland

Map Unit Composition

- *Urban land:* 60 percent
- *Cayuga and similar soils:* 30 percent
- *Minor components:* 10 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Urban Land

Interpretive groups

- *Land capability classification (irrigated):* None specified
- *Land capability classification (nonirrigated):* 8s
- *Hydric soil rating:* Unranked

Description of Cayuga

Setting

- *Landform:* Till plains, lake plains
- *Landform position (two-dimensional):* Summit
- *Landform position (three-dimensional):* Crest, tread
- *Down-slope shape:* Concave
- *Across-slope shape:* Convex
- *Parent material:* Clayey glaciolacustrine deposits over loamy till derived from limestone, dolomite, sandstone, or shale

Typical profile

- *H1 - 0 to 10 inches:* silt loam

- *H2 - 10 to 26 inches:* silty clay
- *H3 - 26 to 60 inches:* gravelly loam

Properties and qualities

- *Slope:* 0 to 3 percent
- *Depth to restrictive feature:* More than 80 inches
- *Drainage class:* Moderately well drained
- *Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to moderately high (0.06 to 0.20 in/hr)
- *Depth to water table:* About 18 to 36 inches
- *Frequency of flooding:* None
- *Frequency of ponding:* None
- *Calcium carbonate, maximum content:* 15 percent
- *Available water supply, 0 to 60 inches:* Moderate (about 8.4 inches)

Interpretive groups

- *Land capability classification (irrigated):* None specified
- *Land capability classification (nonirrigated):* 2w
- *Hydrologic Soil Group:* D
- *Ecological site:* F101XY009NY - Moist Lake Plain
- *Hydric soil rating:* No

Uh—Urban land-Churchville complex

Map Unit Setting

- *National map unit symbol:* 9rq9
- *Elevation:* 570 to 720 feet
- *Mean annual precipitation:* 36 to 48 inches
- *Mean annual air temperature:* 45 to 50 degrees F
- *Frost-free period:* 115 to 195 days
- *Farmland classification:* Not prime farmland

Map Unit Composition

- *Urban land:* 65 percent
- *Churchville and similar soils:* 25 percent
- *Minor components:* 10 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Churchville

Setting

- *Landform:* Till plains, lake plains
- *Landform position (two-dimensional):* Footslope
- *Landform position (three-dimensional):* Base slope, tread
- *Down-slope shape:* Concave
- *Across-slope shape:* Linear
- *Parent material:* Clayey glaciolacustrine deposits over loamy till

Typical profile

- *H1 - 0 to 11 inches:* silt loam
- *H2 - 11 to 26 inches:* silty clay
- *H3 - 26 to 60 inches:* gravelly loam

Properties and qualities

- *Slope:* 0 to 3 percent
- *Depth to restrictive feature:* More than 80 inches
- *Drainage class:* Somewhat poorly drained
- *Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to moderately high (0.06 to 0.20 in/hr)
- *Depth to water table:* About 6 to 18 inches
- *Frequency of flooding:* None
- *Frequency of ponding:* None
- *Calcium carbonate, maximum content:* 15 percent
- *Available water supply, 0 to 60 inches:* Moderate (about 8.4 inches)

Interpretive groups

- *Land capability classification (irrigated):* None specified
- *Land capability classification (nonirrigated):* 3w
- *Hydrologic Soil Group:* C/D
- *Ecological site:* F101XY009NY - Moist Lake Plain
- *Hydric soil rating:* No

Uk—Urban land-Claverack complex

Map Unit Setting

- *National map unit symbol:* 9rq8
- *Elevation:* 600 to 1,800 feet
- *Mean annual precipitation:* 36 to 48 inches
- *Mean annual air temperature:* 45 to 50 degrees F
- *Frost-free period:* 115 to 195 days
- *Farmland classification:* Not prime farmland

Map Unit Composition

- *Urban land:* 60 percent
- *Claverack and similar soils:* 30 percent
- *Minor components:* 10 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Urban Land

Interpretive groups

- *Land capability classification (irrigated):* None specified
- *Land capability classification (nonirrigated):* 8s
- *Hydric soil rating:* Unranked

Description of Claverack

Setting

- *Landform:* Lake plains
- *Landform position (two-dimensional):* Summit
- *Landform position (three-dimensional):* Tread
- *Down-slope shape:* Concave
- *Across-slope shape:* Convex
- *Parent material:* Sandy glaciolacustrine deposits, derived primarily from non-calcareous sandstone or granite, that overlie clayey glaciolacustrine deposits

Typical profile

- *H1 - 0 to 10 inches:* loamy fine sand
- *H2 - 10 to 35 inches:* loamy fine sand
- *H3 - 35 to 60 inches:* clay

Properties and qualities

- *Slope:* 0 to 3 percent
- *Depth to restrictive feature:* More than 80 inches
- *Drainage class:* Moderately well drained
- *Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to moderately high (0.06 to 0.20 in/hr)
- *Depth to water table:* About 18 to 24 inches
- *Frequency of flooding:* None
- *Frequency of ponding:* None
- *Calcium carbonate, maximum content:* 15 percent
- *Available water supply, 0 to 60 inches:* Moderate (about 6.1 inches)

Interpretive groups

- *Land capability classification (irrigated):* None specified
- *Land capability classification (nonirrigated):* 2w
- *Hydrologic Soil Group:* C/D
- *Ecological site:* F101XY006NY - Moist Outwash
- *Hydric soil rating:* No

UmA—Urban land-Collamer complex, 1 to 6 percent slopes

Map Unit Setting

- *National map unit symbol:* 9rqb
- *Elevation:* 570 to 660 feet
- *Mean annual precipitation:* 36 to 48 inches
- *Mean annual air temperature:* 45 to 50 degrees F
- *Frost-free period:* 115 to 195 days
- *Farmland classification:* Not prime farmland

Map Unit Composition

- *Urban land:* 60 percent
- *Collamer and similar soils:* 30 percent
- *Minor components:* 10 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Urban Land

Interpretive groups

- *Land capability classification (irrigated):* None specified
- *Land capability classification (nonirrigated):* 8s
- *Hydric soil rating:* Unranked

Description of Collamer

Setting

- *Landform:* Lake plains
- *Landform position (two-dimensional):* Summit
- *Landform position (three-dimensional):* Tread
- *Down-slope shape:* Concave

- *Across-slope shape:* Convex
- *Parent material:* Silty and clayey glaciolacustrine deposits

Typical profile

- *H1 - 0 to 10 inches:* silt loam
- *H2 - 10 to 15 inches:* silt loam
- *H3 - 15 to 32 inches:* silty clay loam
- *H4 - 32 to 60 inches:* stratified silt loam to very fine sand to silty clay loam

Properties and qualities

- *Slope:* 0 to 6 percent
- *Depth to restrictive feature:* More than 80 inches
- *Drainage class:* Moderately well drained
- *Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to moderately high (0.06 to 0.57 in/hr)
- *Depth to water table:* About 18 to 24 inches
- *Frequency of flooding:* None
- *Frequency of ponding:* None
- *Calcium carbonate, maximum content:* 15 percent
- *Available water supply, 0 to 60 inches:* High (about 10.2 inches)

Interpretive groups

- *Land capability classification (irrigated):* None specified
- *Land capability classification (nonirrigated):* 2e
- *Hydrologic Soil Group:* C/D
- *Ecological site:* F101XY009NY - Moist Lake Plain
- *Hydric soil rating:* No

Uo—Urban land-Cosad complex

Map Unit Setting

- *National map unit symbol:* 9rqd
- *Elevation:* 200 to 800 feet
- *Mean annual precipitation:* 36 to 48 inches
- *Mean annual air temperature:* 45 to 50 degrees F
- *Frost-free period:* 115 to 195 days
- *Farmland classification:* Not prime farmland

Map Unit Composition

- *Urban land:* 60 percent
- *Cosad and similar soils:* 25 percent
- *Minor components:* 15 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Urban Land

Interpretive groups

- *Land capability classification (irrigated):* None specified
- *Land capability classification (nonirrigated):* 8s
- *Hydric soil rating:* Unranked

Description of Cosad

Setting

- *Landform:* Lake plains
- *Landform position (two-dimensional):* Footslope
- *Landform position (three-dimensional):* Tread
- *Down-slope shape:* Concave
- *Across-slope shape:* Linear
- *Parent material:* Sandy glaciofluvial or deltaic deposits over clayey glaciolacustrine deposits

Typical profile

- *H1 - 0 to 9 inches:* loamy fine sand
- *H2 - 9 to 21 inches:* loamy fine sand
- *H3 - 21 to 24 inches:* fine sandy loam
- *H4 - 24 to 60 inches:* silty clay

Properties and qualities

- *Slope:* 0 to 3 percent
- *Depth to restrictive feature:* More than 80 inches
- *Drainage class:* Somewhat poorly drained
- *Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to moderately high (0.06 to 0.20 in/hr)
- *Depth to water table:* About 6 to 18 inches
- *Frequency of flooding:* None
- *Frequency of ponding:* None
- *Calcium carbonate, maximum content:* 15 percent
- *Available water supply, 0 to 60 inches:* Moderate (about 7.1 inches

Us—Urban land-Niagara complex

Map Unit Setting

- *National map unit symbol:* 9rqh
- *Elevation:* 560 to 670 feet
- *Mean annual precipitation:* 36 to 48 inches
- *Mean annual air temperature:* 45 to 50 degrees F
- *Frost-free period:* 115 to 195 days
- *Farmland classification:* Not prime farmland

Map Unit Composition

- *Urban land:* 60 percent
- *Niagara and similar soils:* 30 percent
- *Minor components:* 10 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Urban Land

Interpretive groups

- *Land capability classification (irrigated):* None specified
- *Land capability classification (nonirrigated):* 8s
- *Hydric soil rating:* Unranked

Description of Niagara

Setting

- *Landform:* Lake plains

- *Landform position (two-dimensional):* Footslope
- *Landform position (three-dimensional):* Tread
- *Down-slope shape:* Concave
- *Across-slope shape:* Linear
- *Parent material:* Silty and clayey glaciolacustrine deposits

Typical profile

- *H1 - 0 to 11 inches:* silt loam
- *H2 - 11 to 27 inches:* silt loam
- *H3 - 27 to 72 inches:* silt loam

Properties and qualities

- *Slope:* 0 to 3 percent
- *Depth to restrictive feature:* More than 80 inches
- *Drainage class:* Somewhat poorly drained
- *Capacity of the most limiting layer to transmit water (Ksat):* Moderately high (0.20 to 0.57 in/hr)
- *Depth to water table:* About 6 to 18 inches
- *Frequency of flooding:* None
- *Frequency of ponding:* None
- *Calcium carbonate, maximum content:* 15 percent
- *Available water supply, 0 to 60 inches:* High (about 10.3 inches)

Interpretive groups

- *Land capability classification (irrigated):* None specified
- *Land capability classification (nonirrigated):* 3w
- *Hydrologic Soil Group:* C/D
- *Ecological site:* F101XY009NY - Moist Lake Plain
- *Hydric soil rating:* No

Ut—Urban land-Odessa complex, 0 to 3 percent slopes

Map Unit Setting

- *National map unit symbol:* 2wrdb
- *Elevation:* 560 to 720 feet
- *Mean annual precipitation:* 31 to 57 inches
- *Mean annual air temperature:* 41 to 50 degrees F
- *Frost-free period:* 100 to 195 days
- *Farmland classification:* Not prime farmland

Map Unit Composition

- *Urban:* 60 percent
- *Odessa and similar soils:* 25 percent
- *Minor components:* 15 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Urban

Interpretive groups

- *Land capability classification (irrigated):* None specified
- *Land capability classification (nonirrigated):* 8s
- *Hydric soil rating:* Unranked

Description of Odessa

Setting

- *Landform:* Lake terraces
- *Landform position (two-dimensional):* Footslope
- *Landform position (three-dimensional):* Tread
- *Down-slope shape:* Concave
- *Across-slope shape:* Linear
- *Parent material:* Red clayey glaciolacustrine deposits derived from calcareous shale

Typical profile

- *Ap - 0 to 8 inches:* silt loam
- *Bt/E - 8 to 10 inches:* silty clay loam
- *Bt1 - 10 to 15 inches:* silty clay
- *Bt2 - 15 to 25 inches:* silty clay
- *C - 25 to 79 inches:* silty clay

Properties and qualities

- *Slope:* 0 to 3 percent
- *Depth to restrictive feature:* More than 80 inches
- *Drainage class:* Somewhat poorly drained
- *Runoff class:* Very high
- *Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.14 in/hr)
- *Depth to water table:* About 6 to 18 inches
- *Frequency of flooding:* None
- *Frequency of ponding:* None
- *Calcium carbonate, maximum content:* 25 percent
- *Available water supply, 0 to 60 inches:* High (about 9.5 inches)

Interpretive groups

- *Land capability classification (irrigated):* None specified
- *Land capability classification (nonirrigated):* 3w
- *Hydrologic Soil Group:* D
- *Ecological site:* F101XY009NY - Moist Lake Plain
- *Hydric soil rating:* No

Uu—Urban land-Schoharie complex, 0 to 3 percent slopes

Map Unit Setting

- *National map unit symbol:* 2xggf
- *Elevation:* 560 to 670 feet
- *Mean annual precipitation:* 31 to 57 inches
- *Mean annual air temperature:* 41 to 50 degrees F
- *Frost-free period:* 100 to 190 days
- *Farmland classification:* Not prime farmland

Map Unit Composition

- *Urban land:* 60 percent
- *Schoharie and similar soils:* 35 percent
- *Minor components:* 5 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Urban Land

Interpretive groups

- *Land capability classification (irrigated):* None specified
- *Land capability classification (nonirrigated):* 8s
- *Hydric soil rating:* Unranked

Description of Schoharie

Setting

- *Landform:* Lake terraces
- *Landform position (two-dimensional):* Summit
- *Landform position (three-dimensional):* Tread
- *Down-slope shape:* Convex
- *Across-slope shape:* Convex
- *Parent material:* Red clayey glaciolacustrine deposits derived from calcareous shale

Typical profile

- *Ap - 0 to 8 inches:* silty clay loam
- *E - 8 to 11 inches:* silt loam
- *Bt/E - 11 to 18 inches:* silty clay
- *Bt - 18 to 33 inches:* clay
- *C1 - 33 to 52 inches:* silty clay
- *C2 - 52 to 79 inches:* silty clay

Properties and qualities

- *Slope:* 0 to 3 percent
- *Depth to restrictive feature:* More than 80 inches
- *Drainage class:* Moderately well drained
- *Runoff class:* Very low
- *Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.14 in/hr)
- *Depth to water table:* About 18 to 36 inches
- *Frequency of flooding:* None
- *Frequency of ponding:* None
- *Calcium carbonate, maximum content:* 25 percent
- *Available water supply, 0 to 60 inches:* High (about 9.3 inches)

Uw—Urban land-Teel complex

Map Unit Setting

- *National map unit symbol:* 9rqm
- *Elevation:* 600 to 1,800 feet
- *Mean annual precipitation:* 36 to 48 inches
- *Mean annual air temperature:* 45 to 50 degrees F
- *Frost-free period:* 115 to 195 days
- *Farmland classification:* Not prime farmland

Map Unit Composition

- *Urban land:* 60 percent
- *Teel and similar soils:* 25 percent
- *Minor components:* 15 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Urban Land

Interpretive groups

- *Land capability classification (irrigated):* None specified
- *Land capability classification (nonirrigated):* 8s
- *Hydric soil rating:* Unranked

Description of Teel

Setting

- *Landform:* Flood plains
- *Landform position (two-dimensional):* Summit
- *Landform position (three-dimensional):* Talf
- *Down-slope shape:* Concave
- *Across-slope shape:* Convex
- *Parent material:* Silty alluvium

Typical profile

- *H1 - 0 to 9 inches:* silt loam
- *H2 - 9 to 48 inches:* silt loam
- *H3 - 48 to 60 inches:* stratified very fine sandy loam to silt loam

Properties and qualities

- *Slope:* 0 to 3 percent
- *Depth to restrictive feature:* More than 80 inches
- *Drainage class:* Moderately well drained
- *Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.57 to 1.98 in/hr)
- *Depth to water table:* About 18 to 24 inches
- *Frequency of flooding:* Occasional
- *Frequency of ponding:* None
- *Calcium carbonate, maximum content:* 1 percent
- *Available water supply, 0 to 60 inches:* High (about 10.2 inches)

Interpretive groups

- *Land capability classification (irrigated):* None specified
- *Land capability classification (nonirrigated):* 2w
- *Hydrologic Soil Group:* B/D
- *Ecological site:* F101XY002NY - Low Floodplain
- *Hydric soil rating:* No

Ux—Urban land-Wassaic complex

Map Unit Setting

- *National map unit symbol:* 9rqn
- *Elevation:* 800 to 1,750 feet
- *Mean annual precipitation:* 36 to 48 inches
- *Mean annual air temperature:* 45 to 50 degrees F
- *Frost-free period:* 115 to 195 days
- *Farmland classification:* Not prime farmland

Map Unit Composition

- *Urban land:* 60 percent
- *Wassaic and similar soils:* 35 percent
- *Minor components:* 5 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Urban Land

Interpretive groups

- *Land capability classification (irrigated):* None specified
- *Land capability classification (nonirrigated):* 8s
- *Hydric soil rating:* Unranked

Description of Wassaic

Setting

- *Landform:* Till plains, ridges, benches
- *Landform position (two-dimensional):* Summit
- *Landform position (three-dimensional):* Crest
- *Down-slope shape:* Convex
- *Across-slope shape:* Convex
- *Parent material:* Loamy till derived mainly from limestone, with varying amounts of sandstone, shale, and crystalline rock

Typical profile

- *H1 - 0 to 10 inches:* silt loam
- *H2 - 10 to 23 inches:* gravelly silt loam
- *C - 23 to 28 inches:* gravelly loam
- *R - 28 to 32 inches:* unweathered bedrock

Properties and qualities

- *Slope:* 0 to 3 percent
- *Depth to restrictive feature:* 20 to 40 inches to lithic bedrock
- *Drainage class:* Well drained
- *Capacity of the most limiting layer to transmit water (Ksat):* Very low (0.00 to 0.00 in/hr)
- *Depth to water table:* About 19 to 39 inches
- *Frequency of flooding:* None
- *Frequency of ponding:* None
- *Calcium carbonate, maximum content:* 1 percent
- *Available water supply, 0 to 60 inches:* Low (about 4.2 inches)

Interpretive groups

- *Land capability classification (irrigated):* None specified
- *Land capability classification (nonirrigated):* 2s
- *Hydrologic Soil Group:* C
- *Ecological site:* F101XY012NY - Till Upland
- *Hydric soil rating:* No

APPENDIX C: Flood Zone Maps

1DWLRQDO)ORRG+D]DUG'DWD ;6WWH

FEMA

)HHW

%DVHPDS,PDJHU\6RXUFH1 86'HSDUWPHQW RI

/HJHQG

6)(57 ARS(1(B)5(6(57

L:WKRXW %DVH)ORRG(OHYDWLRQ %()
=RQH$ 9 $
L:WK%RUHSWK =RQH$ $ 9 $
5HGXFHG)ORRG

$QQXDO &KDQFH)ORRG+D]DUG $UHDV
R DQQXDO FKDQFHIORRGZDWHUDH
G+BWKOHV WKDQRQHIRRW RU ZKGUDLQDJH
DUHDV R OHVV WKDQRQHVTXDUHPLOH=RQH;

)WXUH&RQGLWLRQV $QQXDO
&KDQFH)ORRG+D]DUG =RQH;

$UHDZLWK5HGXFHG)ORRG5LVNGXHWR
/HYHH 6HH1RWHV =RQH;

$UHDZLWK)ORRG5LVNGXHWR/HYHH =RQH'

$UHDRI1RQLBO)ORRG+D]DUG =RQH;
(IIHFWLYH/LQH
$UHDRI8QGHWHUPLQHG)ORRG+D]DUG =RQH'

&KDQQHO &XOYHUW RU 6WUXFWXUH
/HYHH'LNH RU)ORRGZDOO

&URVV6HFWLRQVZLWK$QQXDO &KDQFH
DWHU 6XUIDFH(OHYDWLRQ
&RDVWDO 7UDQVHFW
%DVH)ORRG(OHYDWLRQ/LQH %)(
/LPLW R 6WUXFWXUH
-XULVGLFWLRQ%RXQGDU\
&RDVWDO 7UDQVHFW %DVHOLQH
3URWHFWHG%DVHOLQH
+LJKZDWU\)ORRGXUH

L:LWKDDDWWDFKHGEHH
R:LWKDDDWWDFKHGEHH
8QPDSSHG

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UHOHFW FKDQHV RU DPGQWV VXEVHXHQW WR WKLVGDWH DQG
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OHHQG VFDOHEDU PSFUHDWLRQGDWH FRRL W\LGHQWLILHUV
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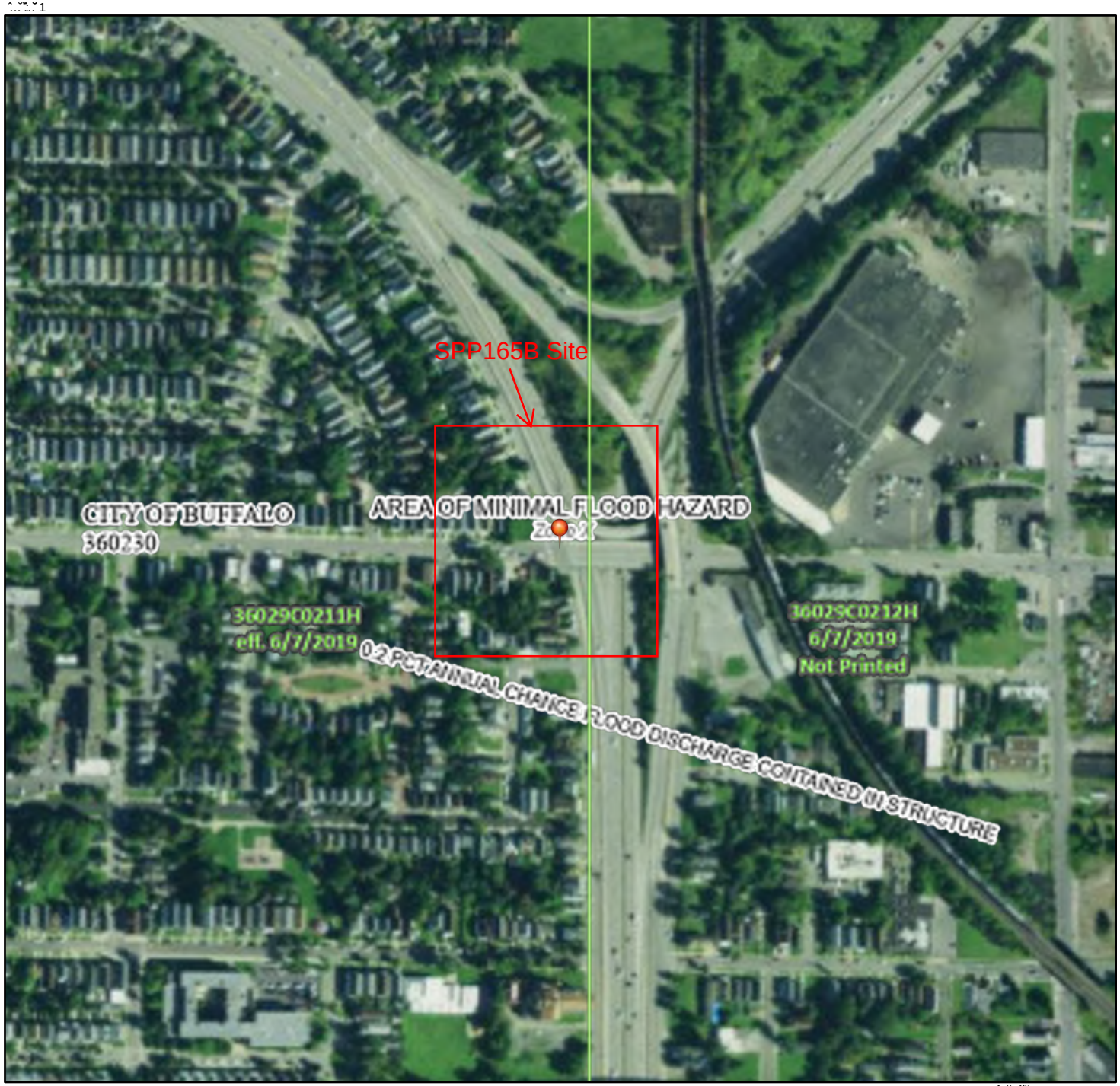

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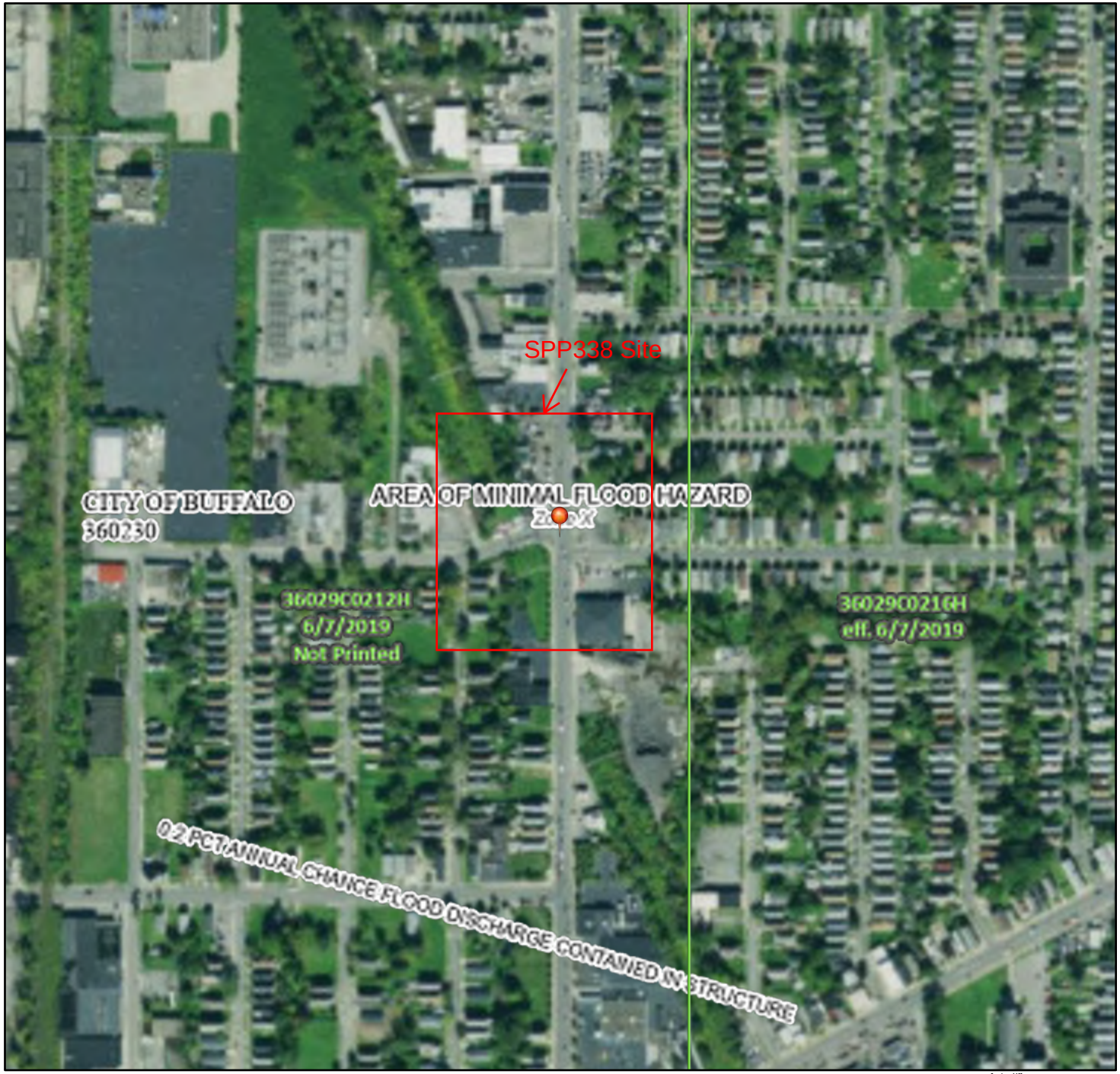

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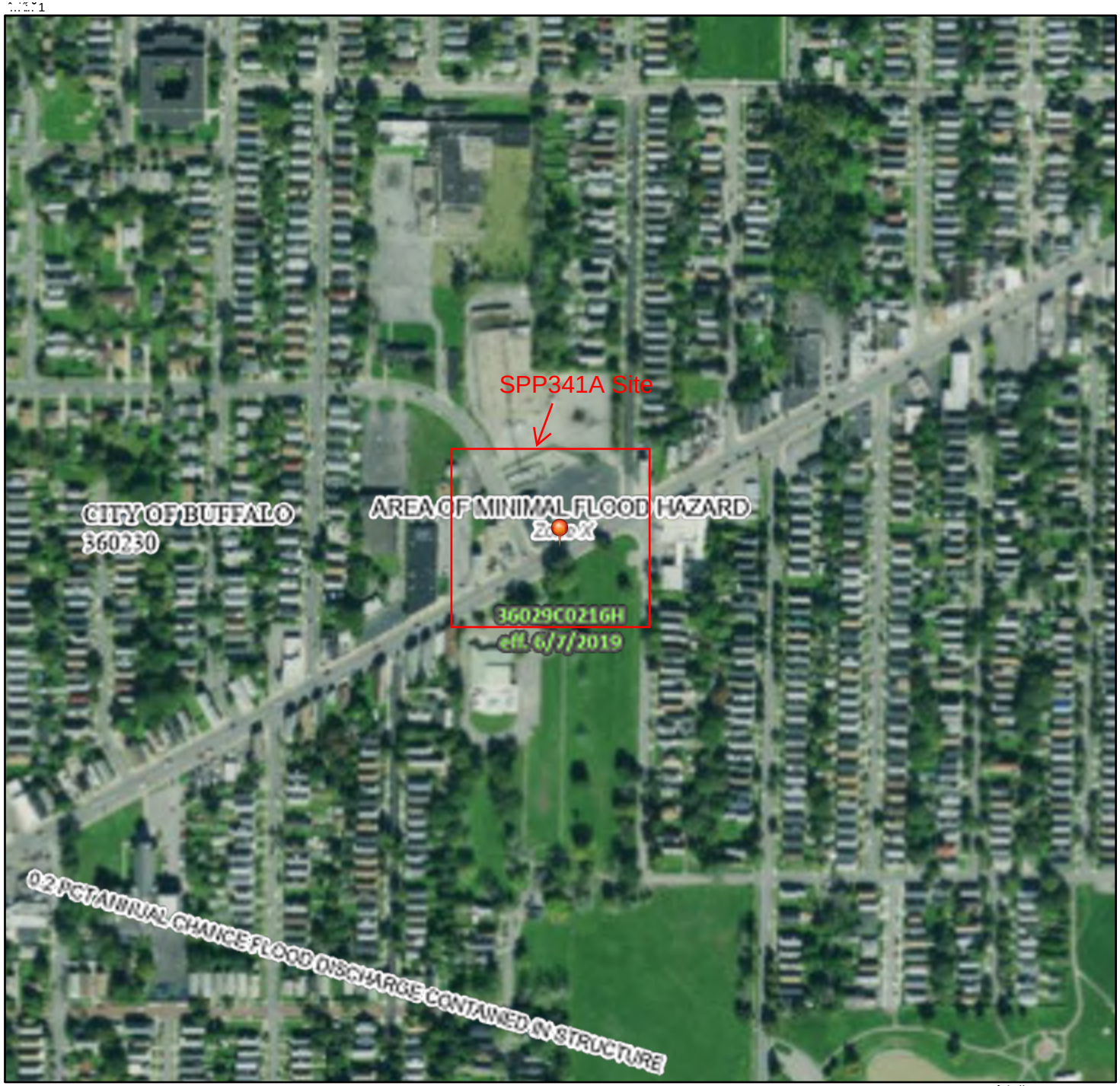

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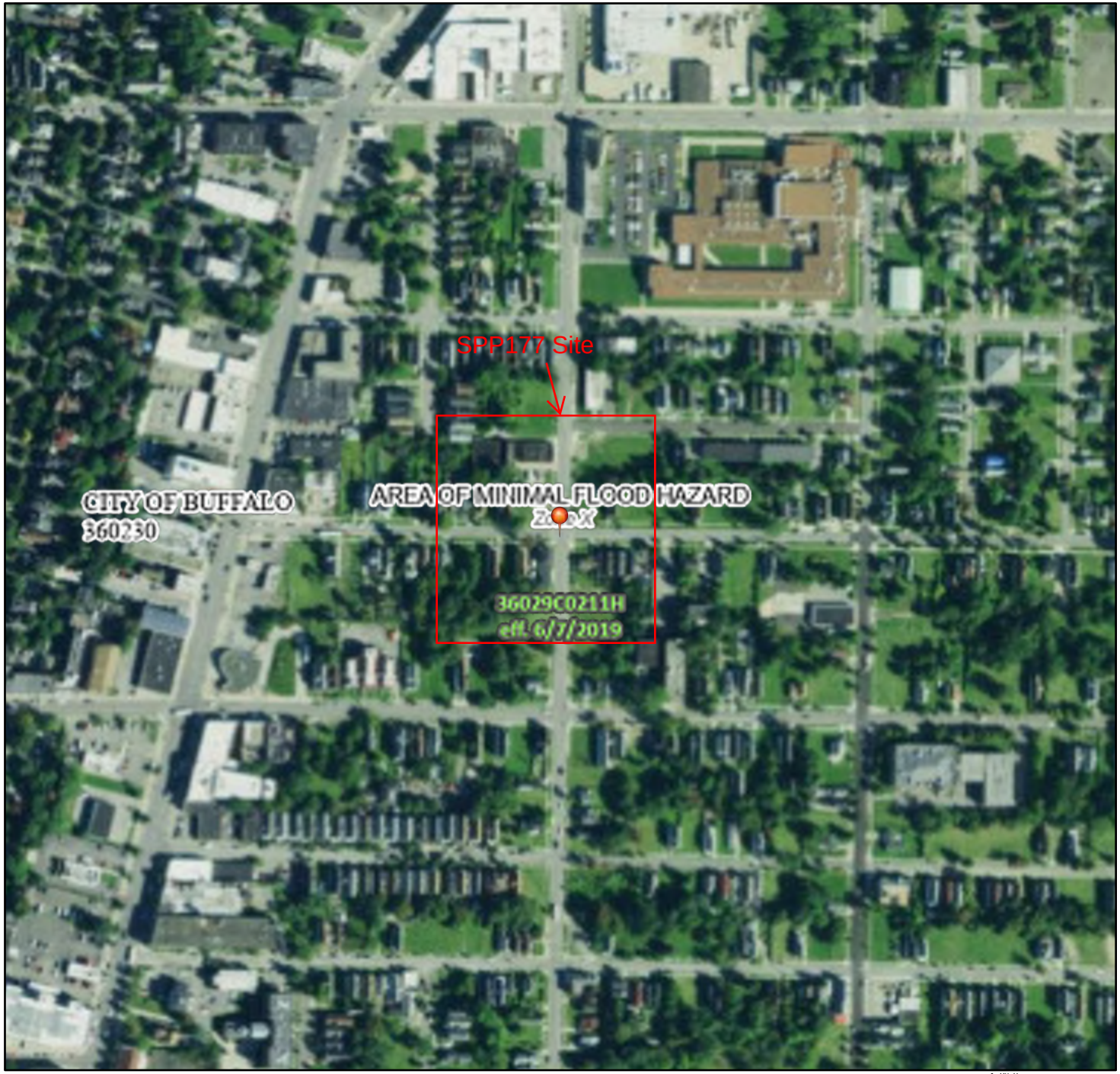

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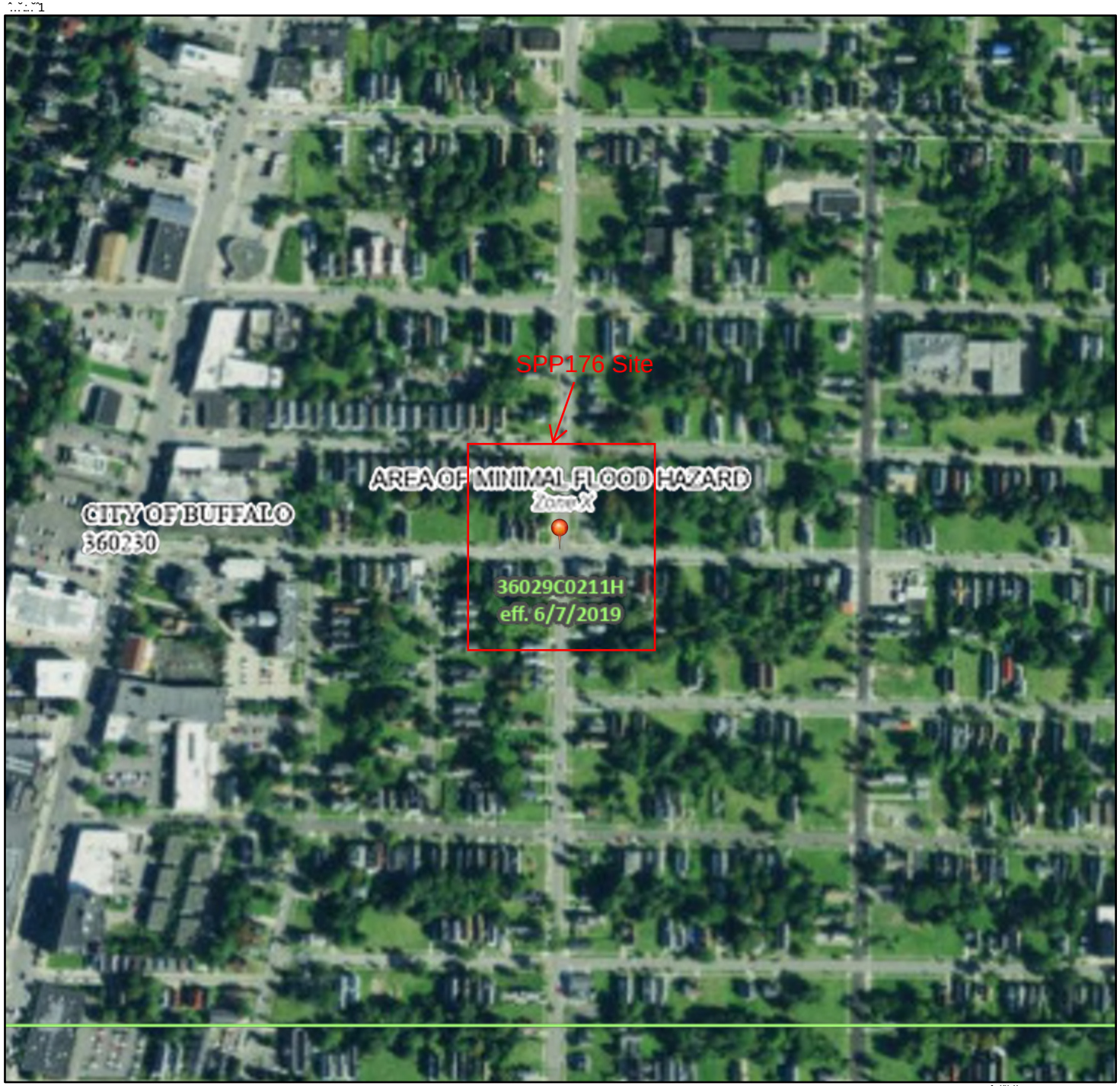

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7KHEDVHPDS VKRZQFRROLHVZLWK\$VEDVHPS
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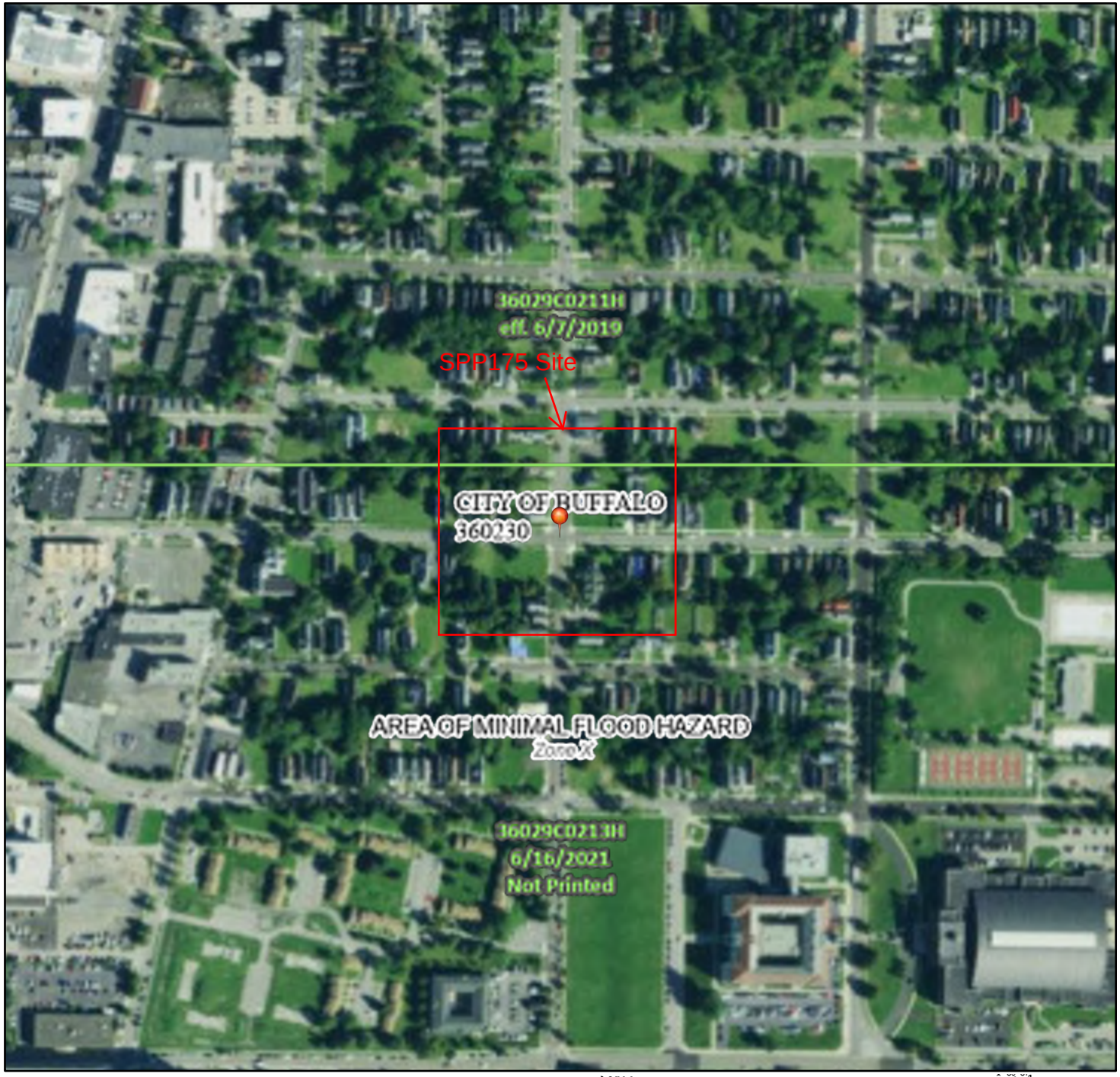

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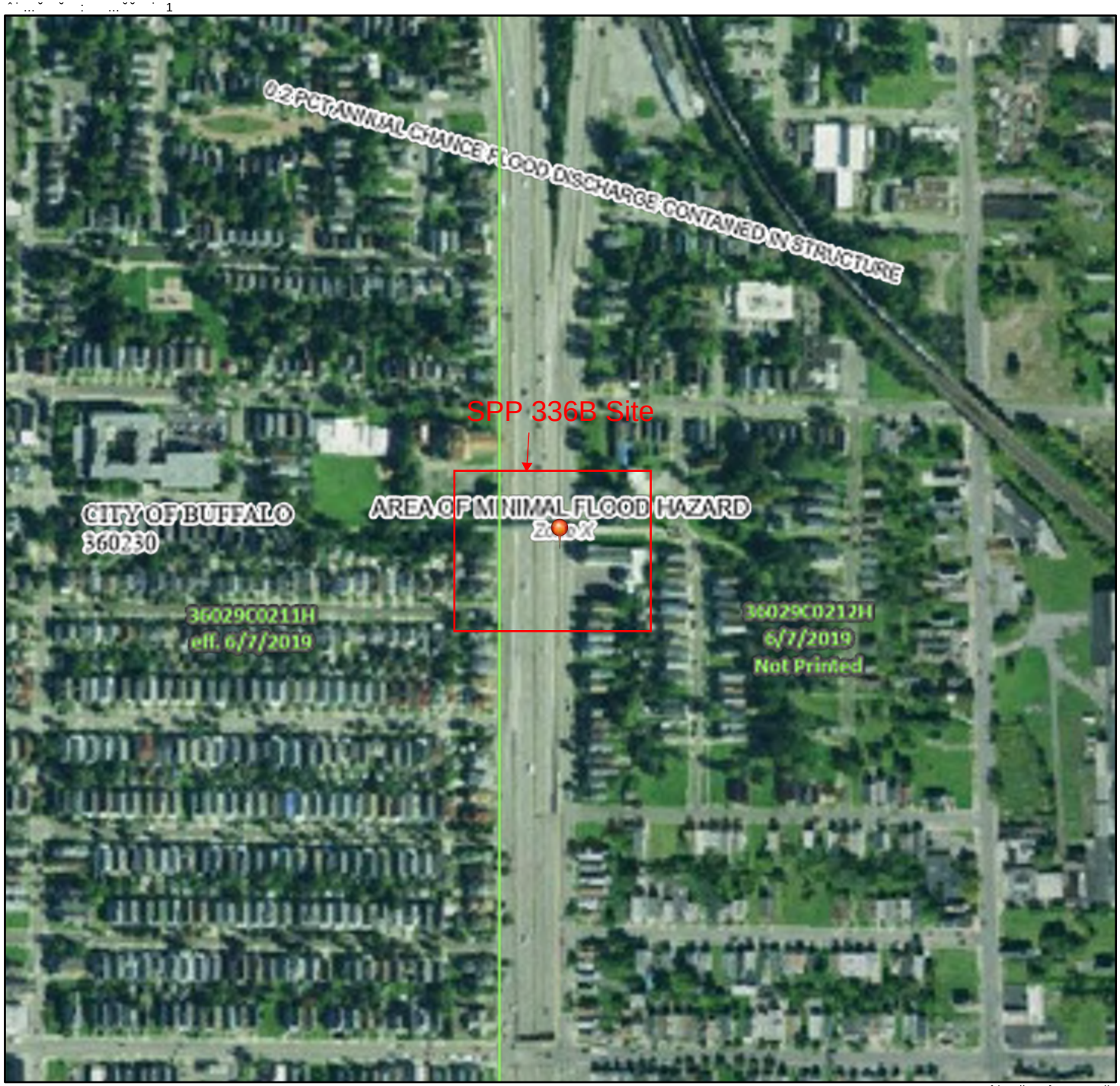

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APPENDIX D: IPaC Preliminary Environmental Report

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

NOT FOR CONSULTATION

Project information

NAME

SPP Location 1
CSO053_2.5 SPP337 Modification

LOCATION

Erie County, New York

DESCRIPTION

None

Local office

New York Ecological Services Field Office

(607) 753-9334
(607) 753-9699
fw5es_nyfo@fws.gov

3817 Luker Road
Cortland, NY 13045-9385

NOT FOR CONSULTATION

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Log in to IPaC.
2. Go to your My Projects list.
3. Click PROJECT HOME for this project.
4. Click REQUEST SPECIES LIST.

Listed species[1] and their critical habitats are managed by the Ecological Services Program of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries[2]).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact NOAA Fisheries for species under their jurisdiction.

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1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the listing status page for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
2. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of

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Commerce.

The following species are potentially affected by activities in this location:

Mammals

NAME	STATUS
Northern Long-eared Bat Myotis septentrionalis Wherever found This species only needs to be considered if the following condition applies: • This species only needs to be considered if the project includes wind turbine operations. No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9045	Endangered
Tricolored Bat Perimyotis subflavus Wherever found This species only needs to be considered if the following condition applies: • This species only needs to be considered if the project includes wind turbine operations. No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/10515	Proposed Endangered

Clams

NAME	STATUS
Salamander Mussel Simpsonaias ambigua Wherever found There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/6208	Proposed Endangered

Insects

NAME	STATUS
Monarch Butterfly Danaus plexippus Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9743	Candidate

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Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

Bald & Golden Eagles

Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act[1] and the Migratory Bird Treaty Act[2].

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats[3], should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "Supplemental Information on Migratory Birds and Eagles".

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

There are likely bald eagles present in your project area. For additional information on bald eagles, refer to Bald Eagle Nesting and Sensitivity to Human Activity

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

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NAME	BREEDING SEASON
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Dec 1 to Aug 31
Golden Eagle *Aquila chrysaetos* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1680	Breeds Jan 1 to Aug 31

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12

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(0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.

3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

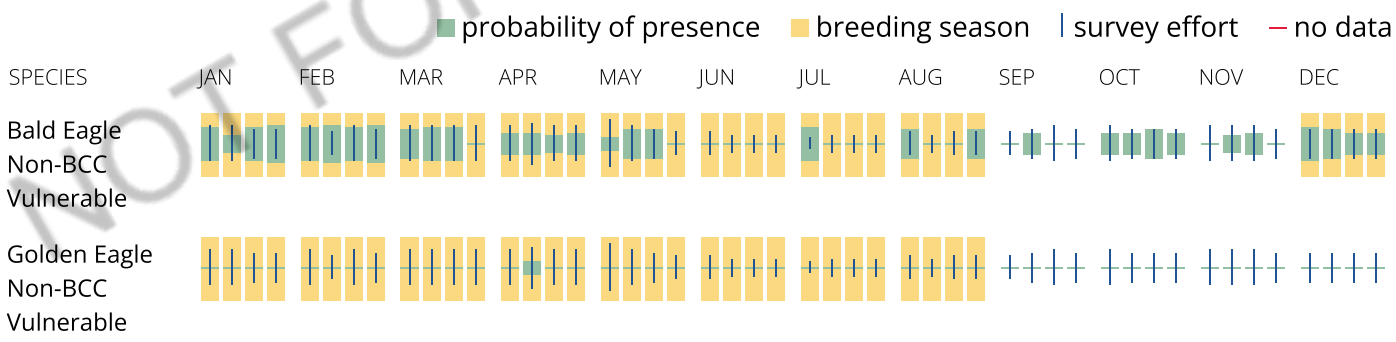
Breeding Season (▪)
Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (–)
A week is marked as having no data if there were no survey events for that week.

Survey Timeframe
Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



What does IPaC use to generate the potential presence of bald and golden eagles in my specified location?

The potential for eagle presence is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply). To see a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

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What does IPaC use to generate the probability of presence graphs of bald and golden eagles in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur. Please contact your local Fish and Wildlife Service Field Office if you have questions.

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Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats[3] should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "Supplemental Information on Migratory Birds and Eagles".

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-

golden-eagles-may-occur-project-action

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

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NAME	BREEDING SEASON
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Dec 1 to Aug 31
Belted Kingfisher *Megaceryle alcyon* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds Mar 15 to Jul 25
Black-billed Cuckoo *Coccyzus erythropthalmus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9399	Breeds May 15 to Oct 10
Blue-winged Warbler *Vermivora cyanoptera* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds May 1 to Jun 30
Bobolink *Dolichonyx oryzivorus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 20 to Jul 31

Canada Warbler Cardellina canadensis — Breeds May 20 to Aug 10

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Cerulean Warbler Setophaga cerulea — Breeds Apr 20 to Jul 20

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/2974

Chimney Swift Chaetura pelagica — Breeds Mar 15 to Aug 25

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Eastern Meadowlark Sturnella magna — Breeds Apr 25 to Aug 31

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

Eastern Whip-poor-will Antrostomus vociferus — Breeds May 1 to Aug 20

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Evening Grosbeak Coccothraustes vespertinus — Breeds May 15 to Aug 10

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Golden Eagle Aquila chrysaetos — Breeds Jan 1 to Aug 31

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.
https://ecos.fws.gov/ecp/species/1680

Golden-winged Warbler Vermivora chrysoptera — Breeds May 1 to Jul 20

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/8745

Lesser Yellowlegs Tringa flavipes — Breeds elsewhere

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/9679

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Pectoral Sandpiper Calidris melanotos This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Prairie Warbler Setophaga discolor This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 1 to Jul 31
Red-headed Woodpecker Melanerpes erythrocephalus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Sep 10
Rose-breasted Grosbeak Pheucticus ludovicianus This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds May 15 to Jul 31
Ruddy Turnstone Arenaria interpres morinella This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds elsewhere
Semipalmated Sandpiper Calidris pusilla This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds elsewhere
Short-billed Dowitcher Limnodromus griseus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9480	Breeds elsewhere
Upland Sandpiper Bartramia longicauda This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9294	Breeds May 1 to Aug 31
Wood Thrush Hylocichla mustelina This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Aug 31

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Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read

"Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)
Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (–)
A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

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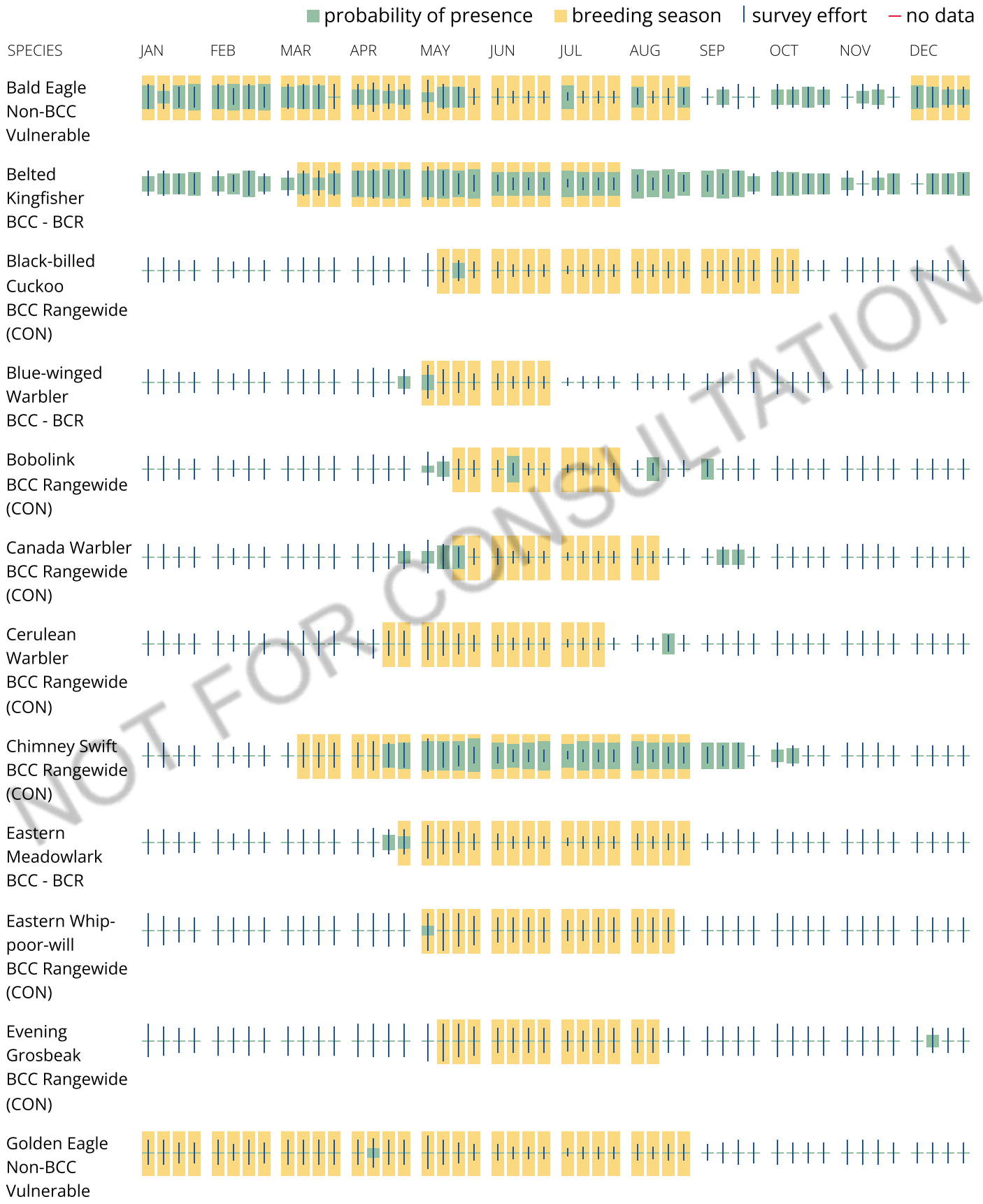
Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



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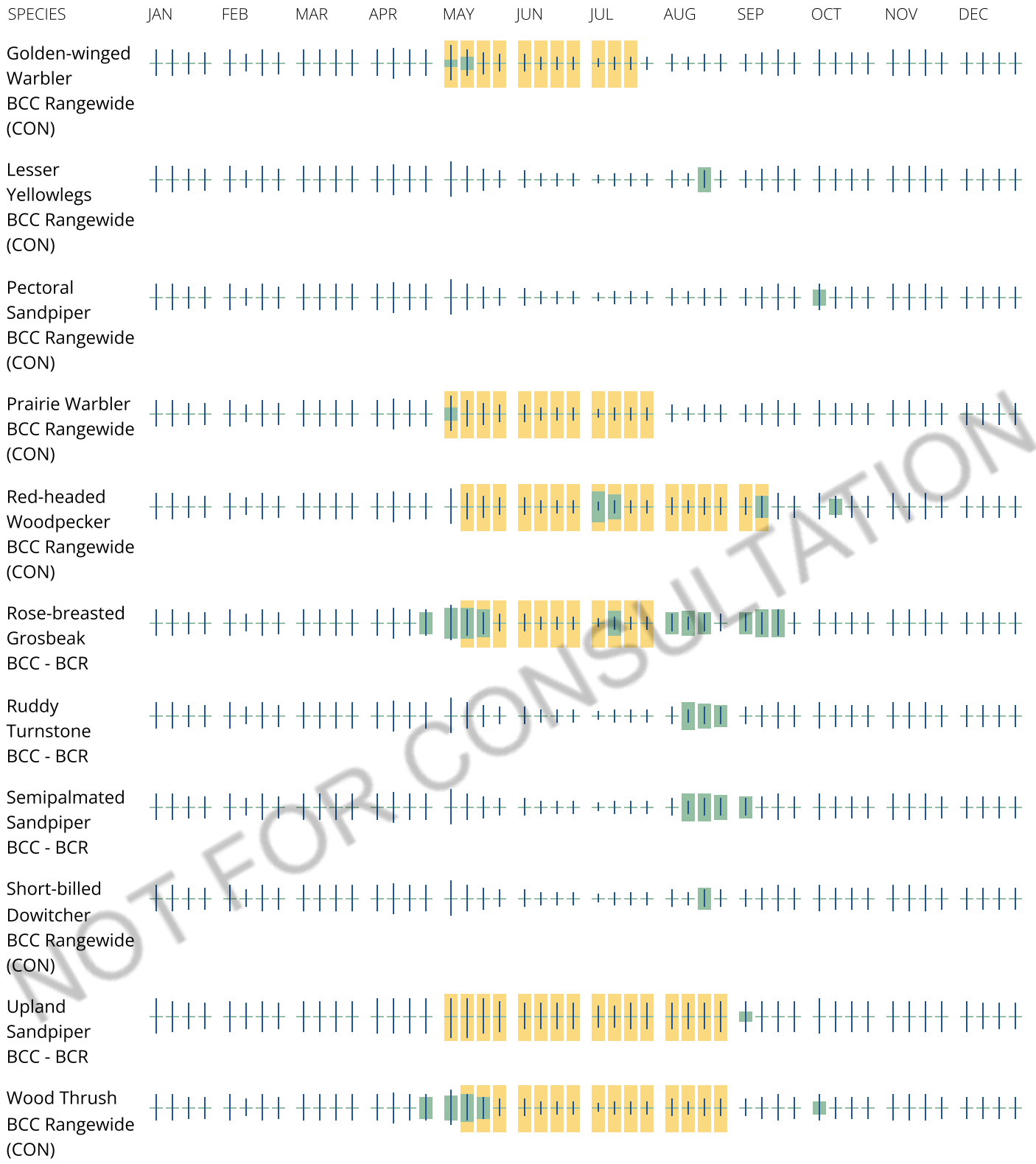

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Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure.

To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the Avian Knowledge Network (AKN). This data is derived from a growing collection of survey, banding, and citizen science datasets.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the RAIL Tool and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in

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offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the Diving Bird Study and the nanotag studies or contact Caleb Spiegel or Pam Loring.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

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Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

RIVERINE

R4SBC

A full description for each wetland code can be found at the National Wetlands Inventory website

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NOTE: This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

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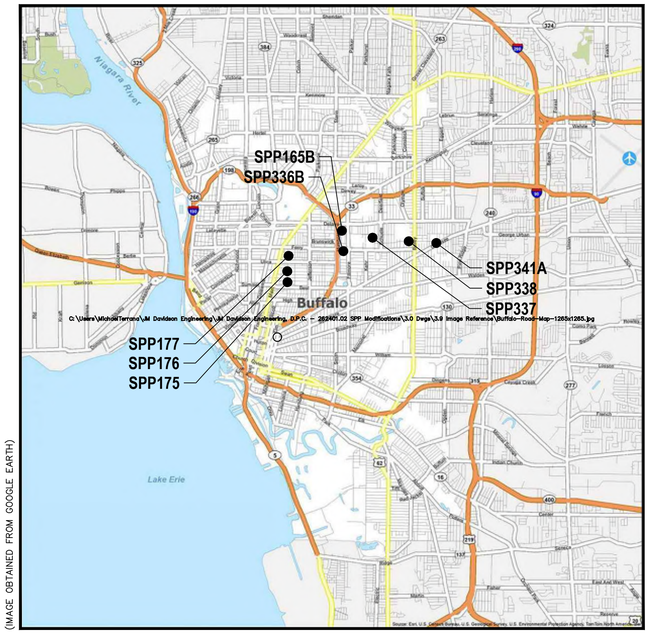
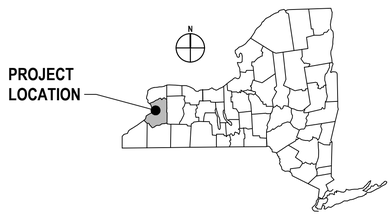
APPENDIX E: Project Drawings



(IMAGE OBTAINED FROM GOOGLE EARTH)

LOCATION PLAN
NOT TO SCALE



BUFFALO SEWER AUTHORITY CSO-053 SEWER PATROL POINT MODIFICATIONS

PRELIMINARY DESIGN

SEWER PATROL POINT MODIFICATION LOCATIONS:
SPP337 - COLORADO AVE.
SPP165B - HUMBOLDT PKWY.
SPP336B - HUMBOLDT PKWY.
SPP338 - BAILEY AVE.
SPP341A - GENESEE ST.
SPP175 - MICHIGAN AVE. AT DODGE ST.
SPP176 - MICHIGAN AVE. AT RILEY ST.
SPP177 - MICHIGAN AVE. AT GLENWOOD AVE.

BUFFALO SEWER AUTHORITY BOARD
HERBERT L. BELLAMY, JR. CHAIRMAN
CHRISTOPHER ROOSEVELT ASST. VICE-CHAIRMAN
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PRINCIPAL SANITARY ENGINEER
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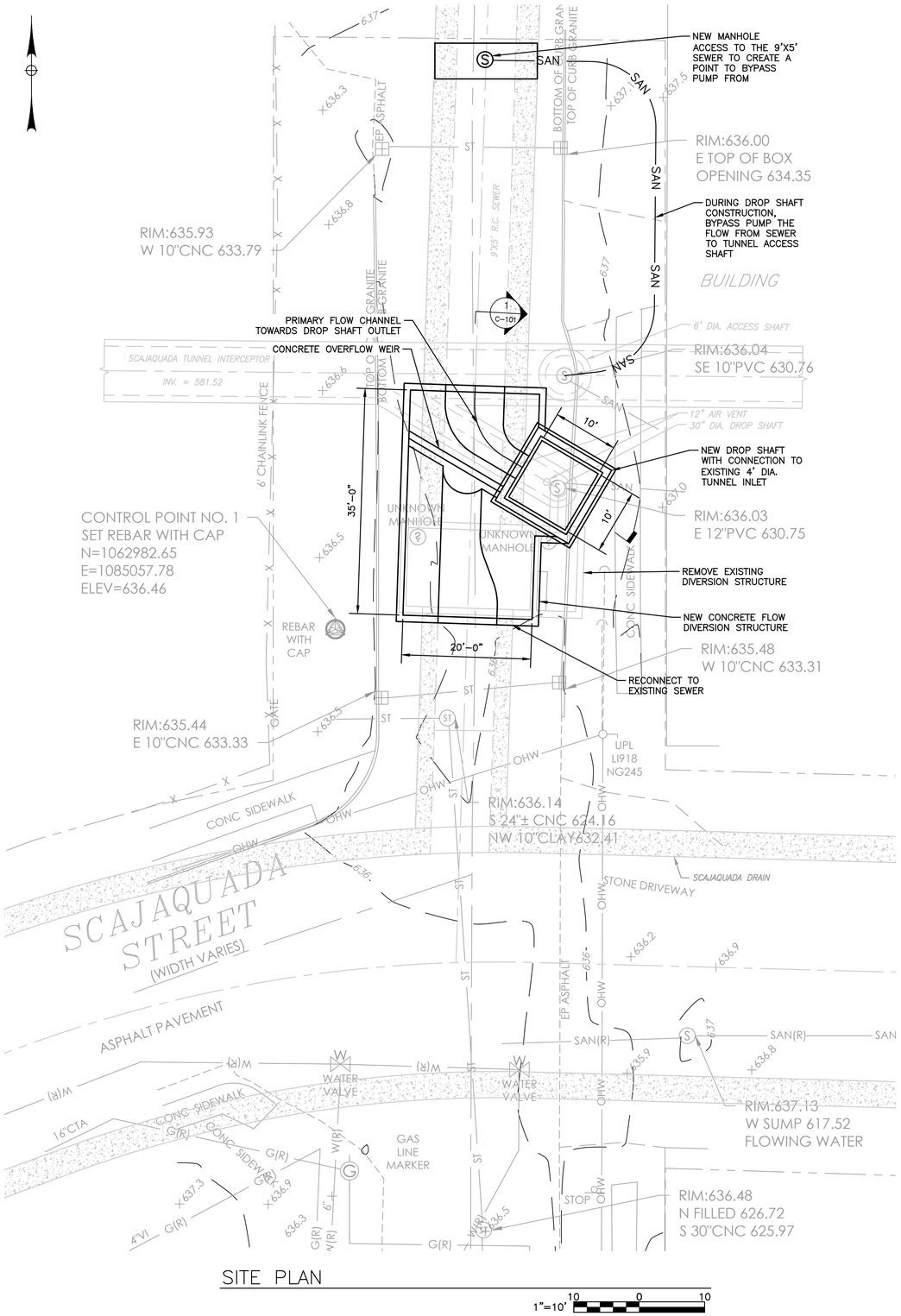
PREPARED BY:
JMDavidson Engineering, D.P.C.
935 SHERIDAN DRIVE - SUITE 120
TONAWANDA, NEW YORK 14150 PHONE:
716-453-1646
WWW.JMDAVIDSONENG.COM

User:MICHAELTERRANA Spec:### File:V:\JMDAVIDSON PROJECTS -- ACTIVE\262401.02 SPP MODIFICATIONS\3.0 DWGS\3.3 CIVIL\G-000 -- COVER.DWG Scale:1:1 SavedDate:1/27/2025 Date:1/27/2025 Time:16:49 Plot Date: Michael Terrano; 1/27/2025; 16:49 ; Layout:COVER

0 BAR IS ONE INCH ON ORIGINAL DRAWING



SITE PLAN

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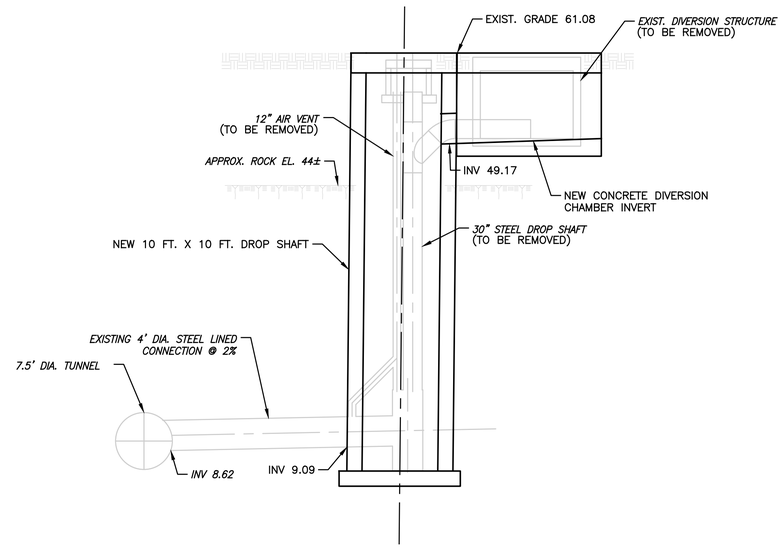

1 C-101 DROP SHAFT REPLACEMENT SECTION

1"=10' 10 0 10

OWNER:

BUFFALO SEWER AUTHORITY

ROOM 1038
BUFFALO CITY HALL
65 NIAGARA SQUARE
BUFFALO, NEW YORK 14202

QUEEN CITY CLEAN WATERS PROGRAM

SEWER PATROL POINT MODIFICATIONS
SPP165B – HUMBOLDT PKWY.
SPP175,176,&177 – MICHIGAN AVE.
SPP337 – COLORADO AVE.
SPP338 – BAILEY AVE.
SPP341A – GENESEE ST.

PREPARED BY:

JMDavidson Engineering, D.P.C.
935 SHERIDAN DRIVE – SUITE 120
TONAWANDA, NEW YORK 14150
PHONE: 716-453-1646
WWW.JMDAVIDSONENG.COM

SEAL:

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MARK	DATE	DESCRIPTION
1	6/3/2024	PRELIMINARY DESIGN

PROJECT NO:	
DESIGNER PROJECT NO:	
CAD DWG FILE:	
DRAWN BY:	MAT
CHECKED BY:	JMD
SCALE:	AS NOTED
DWG. SHEET SIZE:	22" X 34"

SHEET TITLE:

SPP337 COLORADO AVE AT SCAJAQUADA ST MODIFICATIONS

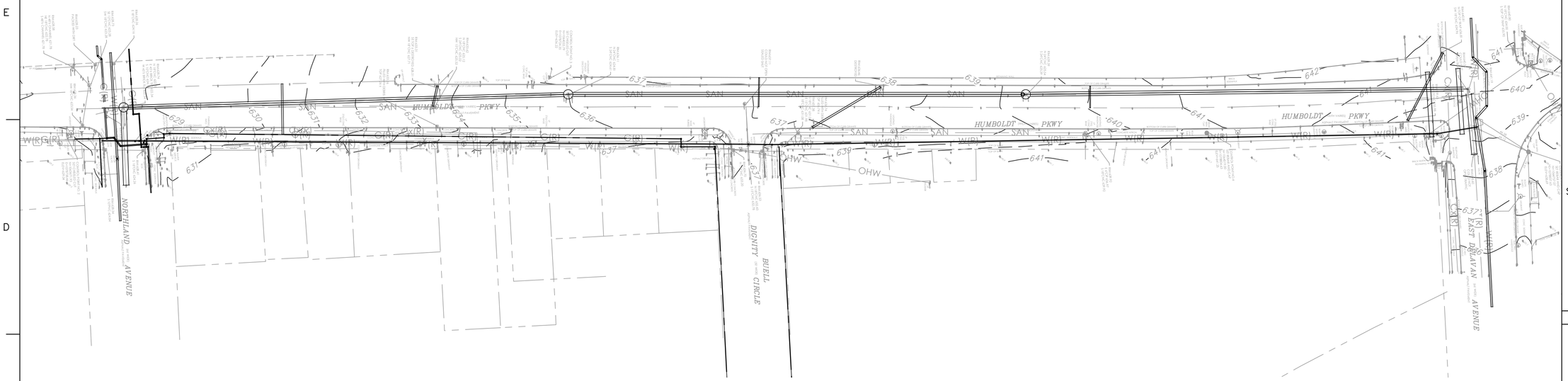
DRAWING#

C-101

SHEET 2 OF 8

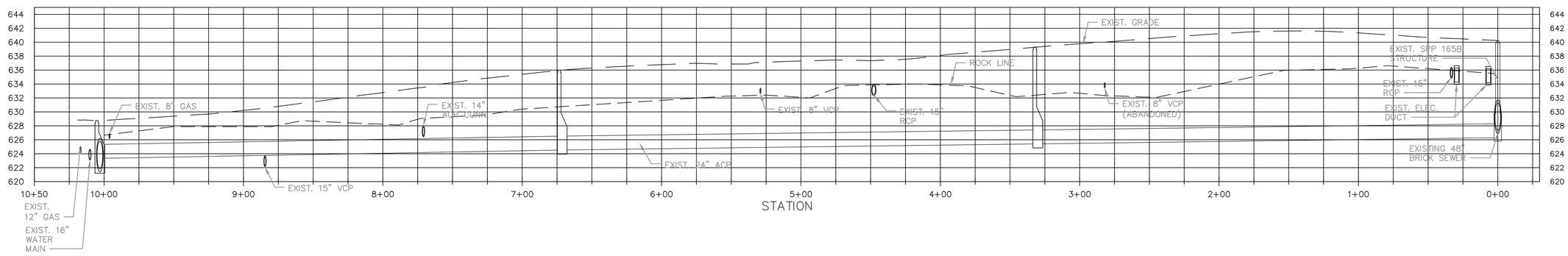
User:MICHAELTERRANA Spec:### File:C101-COLORADO.DWG Scale:1:1 SavedDate:5/29/2024 Time:16:05 Plot Date: Michael Terrana: 5/29/2024; 16:58 ; Layout:COLORADO

BAR IS ONE INCH ON UNMODIFIED DRAWING



EXISTING UTILITIES – PLAN

1"=40'



EX 24 IN ACP PROFILE

EXISTING UTILITIES – PROFILE

HORIZONTAL: 1"=40'

VERTICAL: 1"=5'

OWNER:

BUFFALO SEWER AUTHORITY

ROOM 1038
BUFFALO CITY HALL
65 NIAGARA SQUARE
BUFFALO, NEW YORK 14202

QUEEN CITY CLEAN WATERS PROGRAM

SEWER PATROL POINT MODIFICATIONS
SPP165B – HUMBOLDT PKWY.
SPP175,176,&177 – MICHIGAN AVE.
SPP337 – COLORADO AVE.
SPP338 – BAILEY AVE.
SPP341A – GENESEE ST.

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MARK	DATE	DESCRIPTION
1	6/3/2024	PRELIMINARY DESIGN

PROJECT NO:	
DESIGNER PROJECT NO:	
CAD DWG FILE:	
DRAWN BY:	MAT
CHECKED BY:	JMD
SCALE:	AS NOTED
DWG. SHEET SIZE:	22" X 34"

SHEET TITLE:

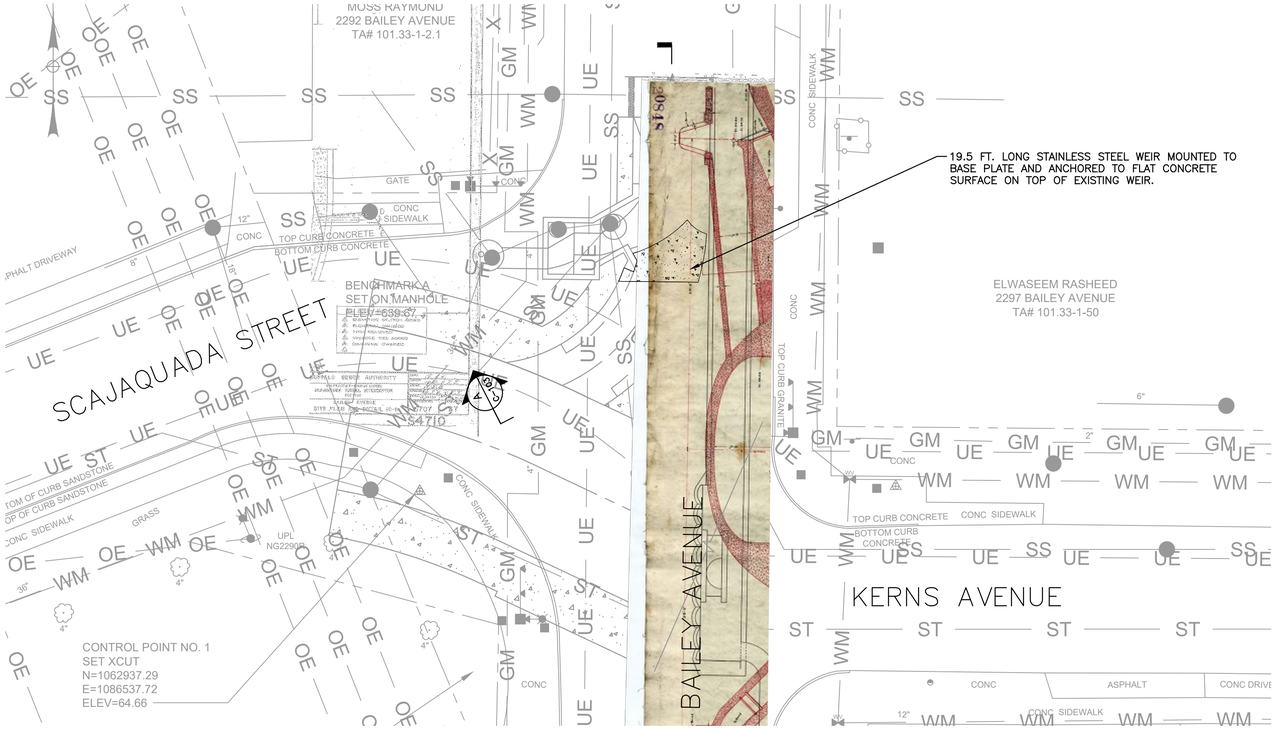
SPP165B EAST DELAVA AVE. AT HUMBOLT PKWY. MODIFICATIONS

DRAWING#

C-102

SHEET 3 OF 8

User:MICHAELTERRANA Spec:### File:SPP165B_HUMBOLDT_EXIST.DWG Scale:1:1 SavedDate:5/29/2024 Time:16:05 Plot Date: Michael Terrana; 5/29/2024; 16:58 ; Layout:HUMBOLDT



SPP338 – BAILEY AVE. PLAN

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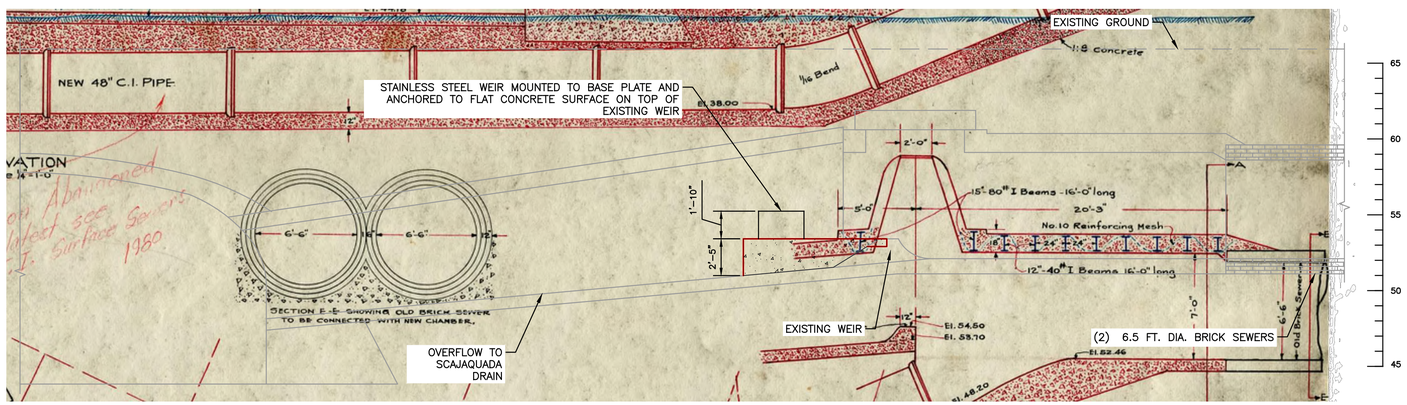

A SECTION
C-103

1"=5' 5 0 5

OWNER:
BUFFALO SEWER AUTHORITY
ROOM 1038
BUFFALO CITY HALL
65 NIAGARA SQUARE
BUFFALO, NEW YORK 14202

QUEEN CITY CLEAN WATERS PROGRAM

SEWER PATROL POINT MODIFICATIONS
SPP165B – HUMBOLDT PKWY.
SPP175,176,&177 – MICHIGAN AVE.
SPP337 – COLORADO AVE.
SPP338 – BAILEY AVE.
SPP341A – GENESEE ST.

PREPARED BY:
JMDavidson Engineering, D.P.C.
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TONAWANDA, NEW YORK 14150
PHONE: 716-453-1646
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MARK	DATE	DESCRIPTION
1	6/3/2024	PRELIMINARY DESIGN

PROJECT NO:	
DESIGNER PROJECT NO:	
CAD DWG FILE:	
DRAWN BY:	MAT
CHECKED BY:	JMD
SCALE:	AS NOTED
DWG. SHEET SIZE:	22" X 34"

SHEET TITLE:

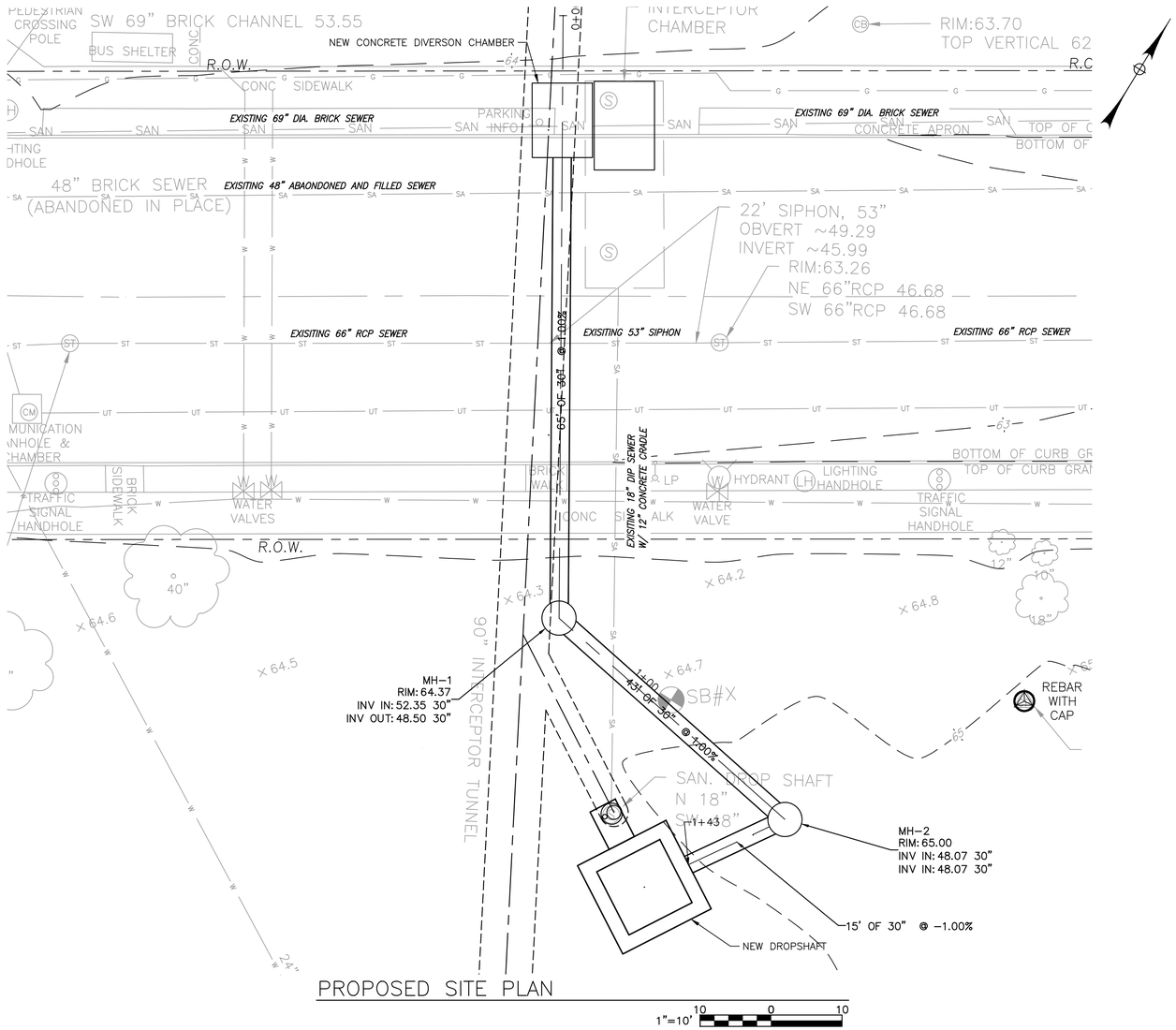
SPP338 BAILEY AVE. MODIFICATIONS

DRAWING#

C-103

User:MICHAELTERRANA Spec:#### File:C104-BAILEY.DWG Scale:1:1 SavedDate:1/27/2025 Time:16:53 Plot Date: Michael Terrana; 1/27/2025; 16:54 ; Layout:BAILEY AVE

BAR IS ONE INCH ON UNREVISED DRAWING



PROPOSED SITE PLAN

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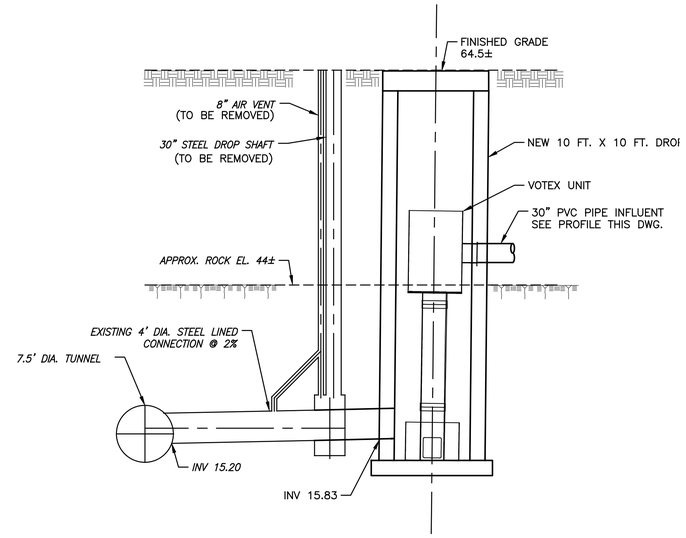

NEW DROP SHAFT SECTION

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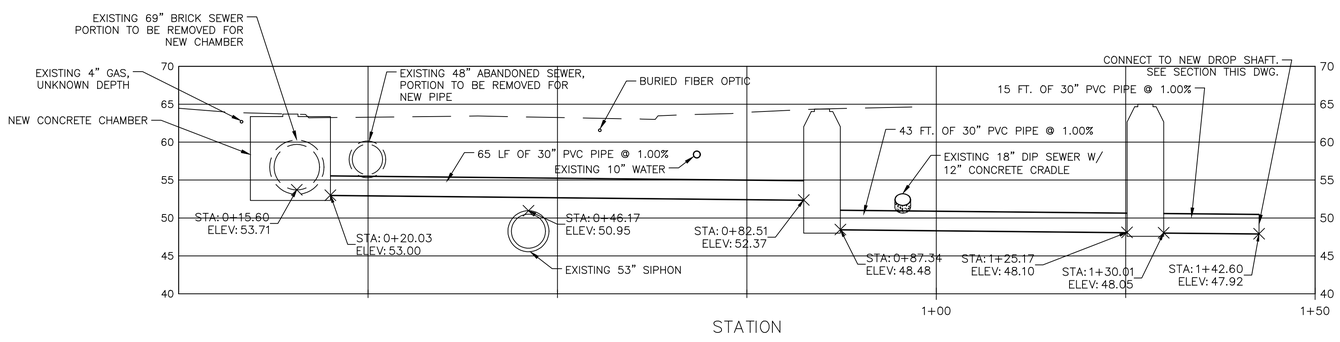

PROFILE – NEW DIVERSION CHAMBER TO DROP SHAFT

OWNER:

BUFFALO SEWER AUTHORITY

ROOM 1038
BUFFALO CITY HALL
65 NIAGARA SQUARE
BUFFALO, NEW YORK 14202

QUEEN CITY CLEAN WATERS PROGRAM

SEWER PATROL POINT MODIFICATIONS
SPP165B – HUMBOLDT PKWY.
SPP175,176,&177 – MICHIGAN AVE.
SPP337 – COLORADO AVE.
SPP338 – BAILEY AVE.
SPP341A – GENESEE ST.

PREPARED BY:

JMDavidson Engineering, D.P.C.
935 SHERIDAN DRIVE – SUITE 120
TONAWANDA, NEW YORK 14150
PHONE: 716-453-1646
WWW.JMDAVIDSONENG.COM

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MARK	DATE	DESCRIPTION
1	6/3/2024	PRELIMINARY DESIGN

PROJECT NO:	
DESIGNER PROJECT NO:	
CAD DWG FILE:	
DRAWN BY:	MAT
CHECKED BY:	JMD
SCALE:	AS NOTED
DWG. SHEET SIZE:	22" X 34"

SHEET TITLE:

PROPOSED SITE PLAN

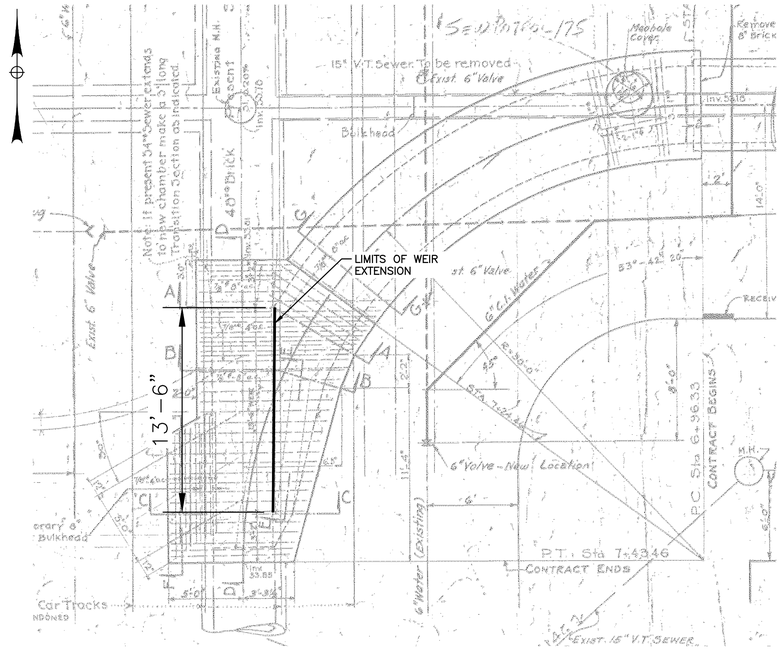
DRAWING#

C-104

SHEET 5 OF 8

User:MICHAELTERRANA Spec:#### File:C01-02.DWG Scale:1:1 SavedDate:1/27/2025 Time:21:23 Plot Date: Michael Terrana: 1/27/2025; 21:24 ; Layout:C01-02

0 BAR IS ONE INCH ON UNSCALED DRAWING



SPP175 – MICHIGAN AVE. AT DODGE STREET PLAN

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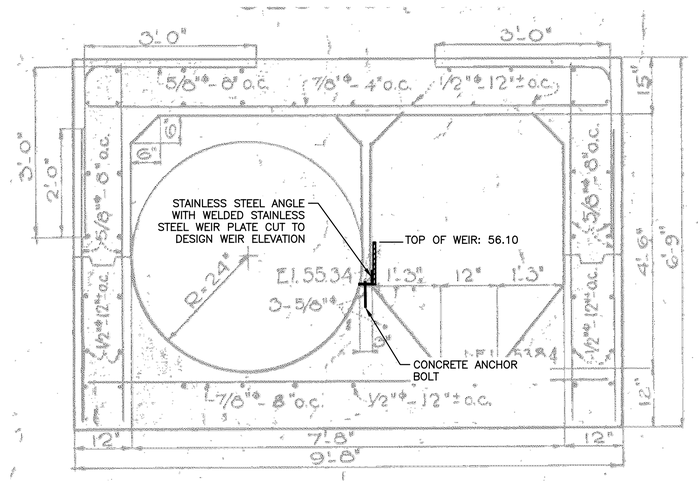
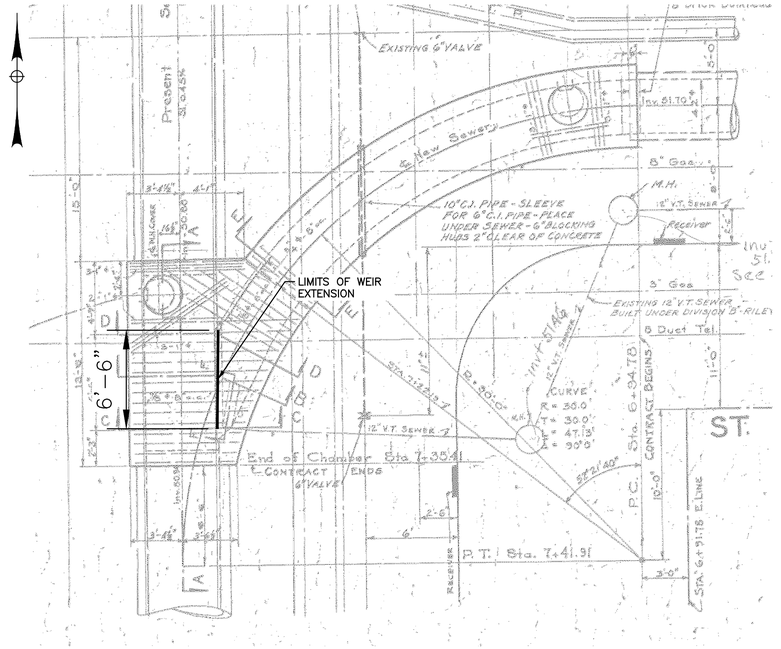


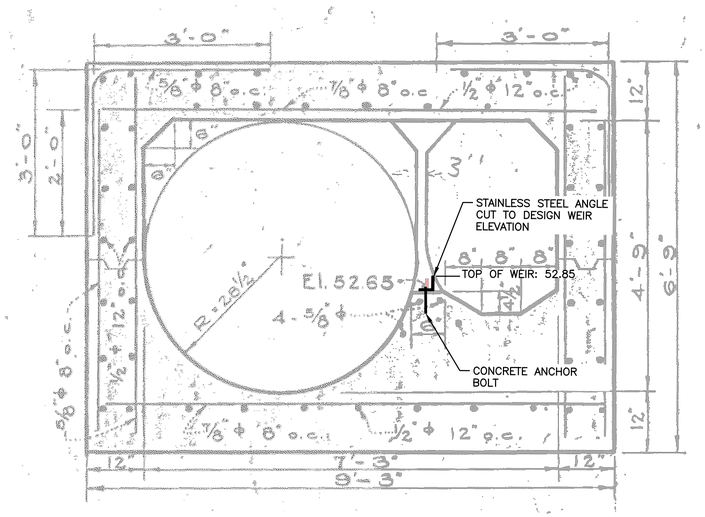
A X–XX SECTION

3/8"=1'–0" 1 0 1 2 3 4



SPP176 – MICHIGAN AVE. AT RILEY STREET PLAN

1"=5' 5 0 5



A X–XX SECTION

3/8"=1'–0" 1 0 1 2 3 4

OWNER:

BUFFALO SEWER AUTHORITY

ROOM 1038
BUFFALO CITY HALL
65 NIAGARA SQUARE
BUFFALO, NEW YORK 14202

QUEEN CITY CLEAN WATERS PROGRAM

SEWER PATROL POINT MODIFICATIONS
SPP165B – HUMBOLDT PKWY.
SPP175,176,&177 – MICHIGAN AVE.
SPP337 – COLORADO AVE.
SPP338 – BAILEY AVE.
SPP341A – GENESEE ST.

PREPARED BY:

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935 SHERIDAN DRIVE – SUITE 120
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MARK	DATE	DESCRIPTION
1	6/3/2024	PRELIMINARY DESIGN

PROJECT NO:	
DESIGNER PROJECT NO:	
CAD DWG FILE:	
DRAWN BY:	MAT
CHECKED BY:	JMD
SCALE:	AS NOTED
DWG. SHEET SIZE:	22" X 34"

SHEET TITLE:

SPP175 MICHIGAN AVE AT DODGE ST & SPP 176 MICHIGAN ST AT RILEY ST MODIFICATIONS

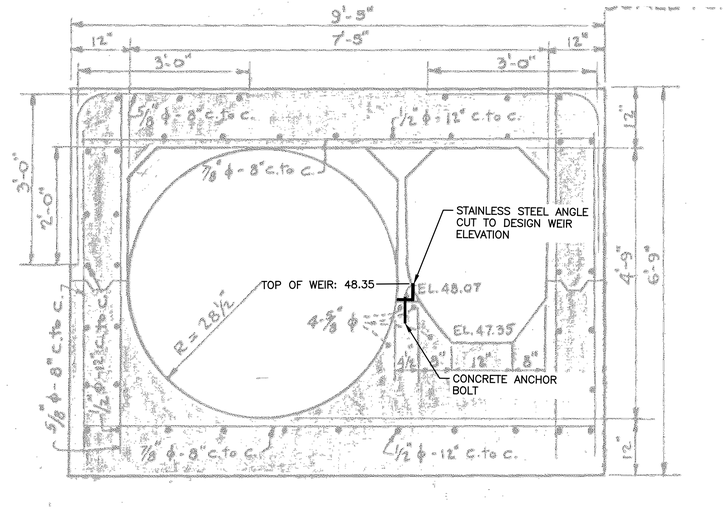
DRAWING#

C–105

User:MICHAELTERRANA Spec:### File:C103–MICHIGAN.DWG Scale:1:1 SavedDate:5/29/2024 Time:16:11 Plot Date: Michael Terrana; 5/29/2024; 16:58 ; Layout:MICHIGAN 1

SPP177 – MICHIGAN AVE. AT GLENWOOD AVE. PLAN

1"=5'



A
X–XX
SECTION

3/8"=1'–0"

OWNER:

BUFFALO SEWER AUTHORITY

ROOM 1038
BUFFALO CITY HALL
65 NIAGARA SQUARE
BUFFALO, NEW YORK 14202

QUEEN CITY CLEAN WATERS PROGRAM

SEWER PATROL POINT MODIFICATIONS
SPP165B – HUMBOLDT PKWY.
SPP175,176,&177 – MICHIGAN AVE.
SPP337 – COLORADO AVE.
SPP338 – BAILEY AVE.
SPP341A – GENESEE ST.

PREPARED BY:

JMDavidson Engineering, D.P.C.
935 SHERIDAN DRIVE – SUITE 120
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MARK	DATE	DESCRIPTION
1	6/3/2024	PRELIMINARY DESIGN

PROJECT NO:	
DESIGNER PROJECT NO:	
CAD DWG FILE:	
DRAWN BY:	MAT
CHECKED BY:	JMD
SCALE:	AS NOTED
DWG. SHEET SIZE:	22" X 34"

SHEET TITLE:

SPP177 MICHIGAN AVE AT GLENWOOD ST MODIFICATIONS

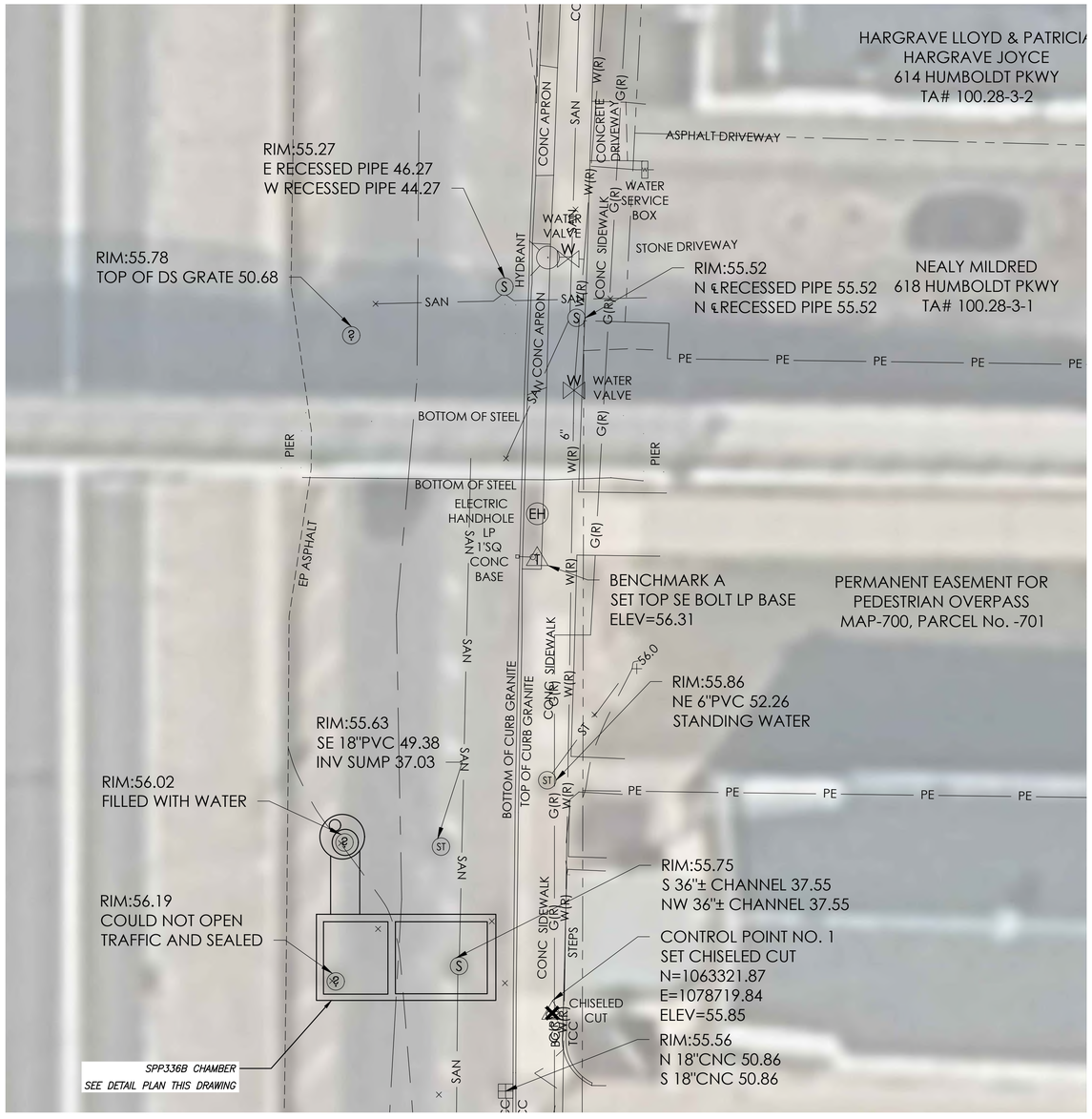
DRAWING#

C–106

SHEET 7 OF 8

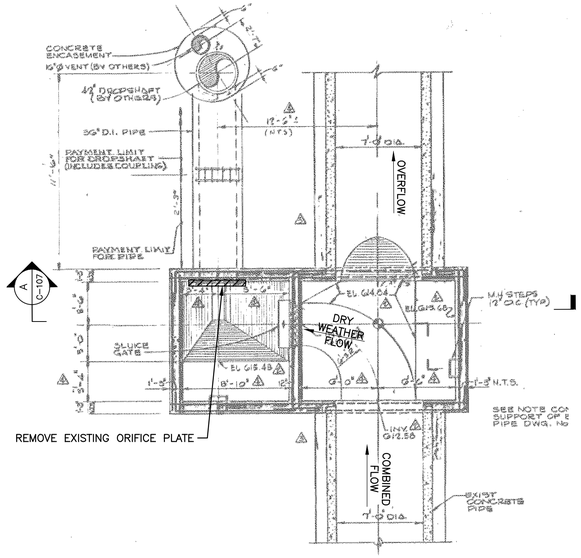
BAR IS ONE INCH ON UNSCALED DRAWING

User:MICHAELTERRANA Spec:### File:C103-MICHIGAN.DWG Scale:1:1 SavedDate:5/29/2024 Time:16:11 Plot Date: Michael Terrana: 5/29/2024; 16:59 ; Layout:MICHIGAN 2



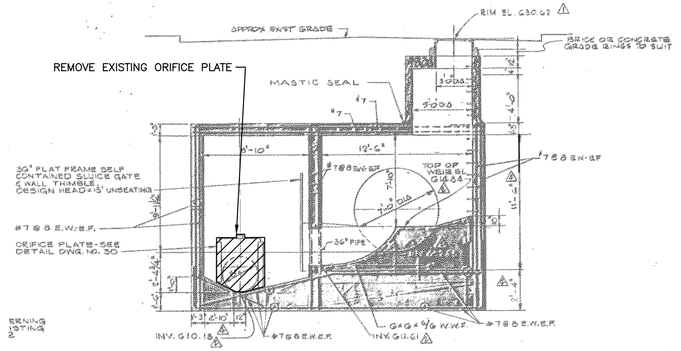
SPP336B – HUMBOLDT PARKWAY PLAN

1"=10' 10 0 10



SPP336B – STRUCTURE PARTIAL PLAN

SCALE: NOT TO SCALE



A C-107 SECTION

SCALE: NOT TO SCALE

OWNER:

BUFFALO SEWER AUTHORITY

ROOM 1038
BUFFALO CITY HALL
65 NIAGARA SQUARE
BUFFALO, NEW YORK 14202

QUEEN CITY CLEAN WATERS PROGRAM

SEWER PATROL POINT MODIFICATIONS
SPP165B – HUMBOLDT PKWY.
SPP175,176,&177 – MICHIGAN AVE.
SPP337 – COLORADO AVE.
SPP338 – BAILEY AVE.
SPP341A – GENESEE ST.

PREPARED BY:

JMDavidson Engineering, D.P.C.
935 SHERIDAN DRIVE – SUITE 120
TONAWANDA, NEW YORK 14150
PHONE: 716-453-1646
WWW.JMDAVIDSONENG.COM

SEAL:

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MARK	DATE	DESCRIPTION
1	6/3/2024	PRELIMINARY DESIGN

PROJECT NO:	
DESIGNER PROJECT NO:	
CAD DWG FILE:	
DRAWN BY:	MAT
CHECKED BY:	JMD
SCALE:	AS NOTED
DWG. SHEET SIZE:	22" X 34"

SHEET TITLE:

SPP336B CHAMBER MODIFICATIONS

DRAWING#

C-107

SHEET 8 OF 8

BAR IS ONE INCH ON UNMODIFIED DRAWING
User:MICHAELTERRANA Spec:### File:C107-SPP336B - HUMBOLD CHAMBER MOD.DWG Scale:1:1 SavedDate:1/27/2025 Time:16:47 Plot Date: Michael Terrana; 1/27/2025; 16:47 ; Layout:SPP336B CHAMBER MOD

APPENDIX F: Opinions of Probable Project Costs

Per 2014 LTCP, Section 7.5.7, Sewer Separation Costs are as follows for GI implementation in the form of Porous Pavement for retrofit

	2012 costs		2025 costs	
Minimum Cost	$ 70,000	per acre	**$ 103,803**	**per acre**
Mean Cost	$ 171,000	per acre	**$ 253,576**	**per acre**
Maximum Cost	$ 439,000	per acre	**$ 650,993**	**per acre**

9011	ENR index in 2012
13,362	ENR index in 2025

From 1/14/2025 Email from Jon Hothem

Project Contingency Percentage:	35%
Engineering Percentage:	15%

ACREAGES

Impacted SPP	Total Tributary Area Controllable by Street Redirection or Permeable Pavement (ac)	20% Control (ac)	40% Control (ac)	60% Control (ac)	80% Control (ac)	100% Control (ac)
165B	42.4	8.5	17	25.4	33.9	42.4
175	205.2	41	82.1	123.1	164.2	205.2
176						
177						
336B	603.5	120.7	241.4	362.1	482.8	603.5
337	332.8	66.6	133.1	199.7	266.2	332.8
338	756.4	151.3	302.6	453.8	605.1	756.4
340	293.8	58.8	117.5	176.3	235	293.8
341A	89.9	18	36	53.9	71.9	89.9

MEAN COSTS

Impacted SPP	Total Tributary Area Controllable by Street Redirection or Permeable Pavement (ac)	20% Control (ac)	40% Control (ac)	60% Control (ac)	80% Control (ac)	100% Control (ac)
165B	42.4	$ 2,155,000	$ 4,311,000	$ 6,441,000	$ 8,596,000	$ 10,752,000
175	205.2	$ 10,397,000	$ 20,819,000	$ 31,215,000	$ 41,637,000	$ 52,034,000
176						
177						
336B	603.5	$ 30,607,000	$ 61,213,000	$ 91,820,000	$ 122,426,000	$ 153,033,000
337	332.8	$ 16,888,000	$ 33,751,000	$ 50,639,000	$ 67,502,000	$ 84,390,000
338	756.4	$ 38,366,000	$ 76,732,000	$ 115,073,000	$ 153,439,000	$ 191,805,000
340	293.8	$ 14,910,000	$ 29,795,000	$ 44,705,000	$ 59,590,000	$ 74,501,000
341A	89.9	$ 4,564,000	$ 9,129,000	$ 13,668,000	$ 18,232,000	$ 22,796,000

From 1/17/2025 Email from Jon Hothem regarding Model results

SUBTOTAL	$	394,311,000
Project Contingency	$	138,008,850
Engineering Contingency	$	79,847,978
TOTAL COST	**$**	**612,167,828**

MAXIMUM COSTS

Impacted SPP	Total Tributary Area Controllable by Street Redirection or Permeable Pavement (ac)	20% Control (ac)	40% Control (ac)	60% Control (ac)	80% Control (ac)	100% Control (ac)
165B	42.4	$ 5,533,000	$ 11,067,000	$ 16,535,000	$ 22,069,000	$ 27,602,000
175	205.2	$ 26,691,000	$ 53,447,000	$ 80,137,000	$ 106,893,000	$ 133,584,000
176						
177						
336B	603.5	$ 78,575,000	$ 157,150,000	$ 235,725,000	$ 314,299,000	$ 392,874,000
337	332.8	$ 43,356,000	$ 86,647,000	$ 130,003,000	$ 173,294,000	$ 216,650,000
338	756.4	$ 98,495,000	$ 196,990,000	$ 295,421,000	$ 393,916,000	$ 492,411,000
340	293.8	$ 38,278,000	$ 76,492,000	$ 114,770,000	$ 152,983,000	$ 191,262,000
341A	89.9	$ 11,718,000	$ 23,436,000	$ 35,089,000	$ 46,806,000	$ 58,524,000

(and still won't achieve compliance)

Per 2014 LTCP, Section 7.5.5.1, Sewer Separation Costs are as follows for Full Separation:

$ 67,296.00 per acre in 2012

9011	ENR index in 2012	
13,362	ENR index in 2025	
$ 150,000.00	**per acre in 2025**	CONSTRUCTION COST ONLY - NO ENGINEERING

50%	market factor
$ 225,000.00	acre cost with market factor

Back up to justify the "market factor" - looking at housing index:

Buffalo - Niagra Region	% Increase	Year	Notes	
$124,000		2012	Median Sale Price	
$140,000		2012	Average Sale Price	
$250,000	**202%**	2024	Median Sale Price	https://www.bnar.org/downloads/statsdec2024.pdf
$296,000	**211%**	2024	Average Sale Price	

From 1/14/2025 Email from Jon Hothem

Project Contingency Percentage:	35%
Engineering Percentage:	15%

ACREAGES

Impacted SPP	Total Tributary Area Controllable by Street Redirection (ac)	20% Control (ac)	40% Control (ac)	60% Control (ac)	80% Control (ac)	100% Control (ac)
165B	42.4	8.5	17	25.4	33.9	42.4
175	205.2	41	82.1	123.1	164.2	205.2
176						
177						
336B	603.5	120.7	241.4	362.1	482.8	603.5
337	332.8	66.6	133.1	199.7	266.2	332.8
338	756.4	151.3	302.6	453.8	605.1	756.4
340	293.8	58.8	117.5	176.3	235	293.8
341A	89.9	18	36	53.9	71.9	89.9

MEAN COSTS

Impacted SPP	Total Tributary Area Controllable by Street Redirection t (ac)	20% Control (ac)	40% Control (ac)	60% Control (ac)	80% Control (ac)	100% Control (ac)	Required level of Sewer Separation above existing Conditions	
165B	42.4	$ 1,913,000	$ 2,550,000	$ 3,810,000	$ 5,085,000	$ 6,360,000	0	
175	205.2	$ 9,225,000	$ 18,473,000	$ 27,698,000	$ 36,945,000	$ 46,170,000		
176								
177							40	
336B	603.5	$ 27,158,000	$ 54,315,000	$ 81,473,000	$ 108,630,000	$ 135,788,000	100	but still does not achieve target activations
337	332.8	$ 14,985,000	$ 29,948,000	$ 44,933,000	$ 59,895,000	$ 74,880,000	100	but still does not achieve target activations
338	756.4	$ 34,043,000	$ 68,085,000	$ 102,105,000	$ 136,148,000	$ 170,190,000	80	
340	293.8	$ 13,230,000	$ 26,438,000	$ 39,668,000	$ 52,875,000	$ 66,105,000	100	
341A	89.9	$ 4,050,000	$ 8,100,000	$ 12,128,000	$ 16,178,000	$ 20,228,000	80	

SUBTOTAL	$ 447,572,000
Project Contingency	$ 156,650,200
Engineering Contingency	$ 90,633,330
TOTAL COST	**$ 694,855,530**

APPENDIX 11-4

ALTERNATIVE UA2 - Real Time Control/Green Infrastructure, HRT at Plant, and Revised Foundation

FINANCIAL ASSUMPTIONS

Current ENR CCI:	**13,362**	i (interest rate):	5.00%
2004 BSA LTCP ENR CCI:	6,695	j (discount rate):	2.50%
Project Contingency Percentage:	35%	t (time horizon for plan):	20
Engineering Percentage:	15%	Present Worth Factor:	15.30
O/M Contingency Percentage:	10%	Assumed Escalation (for O&M) per year:	3.50%
Market Factor	50%		

REVISED 1/9/2025 to reflect update to 2025 dollars

TUNNEL CAPITAL COST ESTIMATES - 2025

See below for estimate used in 2014 LTCP

				Unit Cost		**Capital Cost**	
Length of needed tunnel	25400	ft	Tunnel	--	$	68,181,000	
Diameter of needed tunnel	12	ft	Dewatering PS	--	$	27,571,000	
Volume of needed tunnel	21	MG	Adits	$ 547.66	$	4,268,982	
Dewatering capacity	21	MGD	Dewatering FM	$ 243.57	$	243,571	
(assumes dewatering over a 24 hour period)			Dropshafts (12)	$ 4,200,000	$	50,400,000	
				Market Factor	$	75,332,277	
Total Length of Adits	7795	ft		***SUBTOTAL***	***$***	***225,996,830***	
Average Adit Diameter	3	ft		***Project Contingency***	$	79,098,890.39	
				Engineering Contingency	$	45,764,358.01	
Force Main Diameter	24	in		***TOTAL COST***	**$**	**350,860,078.09**	
Force Main Length	1000	ft					

**** Note that drop shaft cost was based on Genesee Drop-shaft costs for construction only, as determined by JMD in the PER***

TUNNEL O&M COSTS - 2025					Annual O&M Cost	
Electricity Cost ($/kWhr):	$	0.10		Power	$	237,000
Efficiency (%):		67%		Dewatering Materials	$	61,000
Dynamic Head (ft)		125	ft	Dewatering Labor	$	77,000
Total Volume pumped annually		265	MG	Tunnel O&M	$	608,000
				SUBTOTAL	***$***	***983,000***
				O&M Contingency	***$***	***98,300***
				TOTAL Annual O&M	***$***	***1,081,300***

Note: Use Present Worth Factor in Cell F7, if need 20-year Present Value

Current Projects

		4%	3%		
Impacted SPP	Raw OPCC	Mobilization	Gen Conditions, Bonds, Insurances	total (rounded to nearest 1000)	
165B	--	---	---	---	
175	$ 124,300	$ 4,972	$ 3,729	$ 133,000	
176					
177					
336B (SPP improvement only)	$ 20,000	$ 800	$ 600	$ 21,000	Assumed included in $44.62 M cost in column D
337	$ 6,574,000	$ 262,960	$ 197,220	$ 7,034,000	
338	148500	$ 5,940	$ 4,455	$ 159,000	
340	Arcadis Project				
341A	$ 3,948,120	$ 157,925	$ 118,444	$ 4,224,000	

BUFFALO SEWER AUTHORITY

CSO-053 SEWER PATROL POINT (SPP) MODIFICATIONS

PRELIMINARY ENGINEERING OPINION OF PROBABLE CONSTRUCTION COST

DATE: 6/3/2024

SPP337 - COLORADO AVE.

ITEM NO.	DESCRIPTION		COST
1	DIVERSION STRUCTURE AND DROP SHAFT	$	2,790,000.00
2	NEW ACCESS POINT IN EXISTING SEWER	$	100,000.00
3	SITE RESTORATION	$	213,000.00
4	HANDLING AND DISPOSAL OF CONTAMINATED SOIL	$	2,462,000.00
5	WORK ZONE TRAFFIC CONTROL	$	39,000.00
6	BYPASS PUMPING	$	970,000.00
	SUBTOTAL:	$	6,574,000.00
	CONSTRUCTION CONTINGENCY 10%	$	657,400.00
	SUBTOTAL:	$	7,231,400.00
	CONTRACTOR MOBILIZATION 4%	$	289,256.00
	GENERAL CONDITIONS, BONDS, INSURANCES 3%	$	216,942.00
	SUBTOTAL:	$	7,737,598.00

Today	6/10/2024	
Target const start	4/24/2026	
Target const end	11/20/2027	
Estimated Midpoint	2/5/2027	2.66
Estimated Project Duration (yrs)	1.58	
Assumed inflation rate	0.04	

Budget for IUP Listing	Amount	Escalated to midpoint of construction
1. Construction Costs:	$ 7,737,598.00	$ 8,588,081.92
2. Equipment Costs:		$ -
3. Work Force Costs:		$ -
4. Engineering Fees:		$ -
4.a. Planning:		$ -
4.b. Design:	$ 1,160,639.70	$ 1,288,212.29
4.c. Construction:	$ 1,160,639.70	$ 1,288,212.29
5. Other Expense:		$ -
5.a. Local Counsel:		$ -
5.b. Bond Counsel:		$ -
5.c. Fiscal Services:		$ -
5.d. Miscellaneous:	$ 386,879.90	$ 429,404.10
6. Contingencies*:	$ 3,656,015.06	$ 4,057,868.71
Total Project Costs:	$ 14,101,772.36	$ 15,651,779.30

BUFFALO SEWER AUTHORITY

CSO-053 SEWER PATROL POINT (SPP) MODIFICATIONS
PRELIMINARY ENGINEERING OPINION OF PROBABLE CONSTRUCTION COST
DATE: 6/3/2024

Today	6/10/2024	
Target const start	4/24/2026	
Target const end	11/20/2027	
Estimated Midpoint	2/5/2027	2.66
Estimated Project Duration (yrs)	1.58	
Assumed inflation rate	0.04	

SPP341A - GENESEE ST.

ITEM NO.	DESCRIPTION	COST
1	DROP SHAFT	$ 1,910,000.00
2	DIVERSION STRUCTURE	$ 500,000.00
3	SEWER PIPE AND MANHOLES	$ 370,000.00
4	SITE RESTORATION	$ 340,000.00
5	WORK ZONE TRAFFIC CONTROL	$ 103,000.00
6	UTILITY COORDINATION AND WATERLINE RELOCATION	$ 80,000.00
7	BYPASS PUMPING	$ 286,200.00
	SUBTOTAL:	$ 3,589,200.00
	CONSTRUCTION CONTINGENCY 10%	$ 358,920.00
	SUBTOTAL:	$ 3,948,120.00
	CONTRACTOR MOBILIZATION 4%	$ 157,924.80
	GENERAL CONDITIONS, BONDS, INSURANCES 3%	$ 118,443.60
	SUBTOTAL:	$ 4,224,488.40

Budget for IUP Listing	Amount	Escalated to midpoint of construction
1. Construction Costs:	$ 4,224,488.40	$ 4,688,826.23
2. Equipment Costs:		$ -
3. Work Force Costs:		$ -
4. Engineering Fees:		$ -
4.a. Planning:		$ -
4.b. Design:	$ 633,673.26	$ 703,323.93
4.c. Construction:	$ 633,673.26	$ 703,323.93
5. Other Expense:		$ -
5.a. Local Counsel:		
5.b. Bond Counsel:		$ -
5.c. Fiscal Services:		$ -
5.d. Miscellaneous:	$ 211,224.42	$ 234,441.31
6. Contingencies*:	$ 1,996,070.77	$ 2,215,470.39
Total Project Costs:	$ 7,699,130.11	$ 8,545,385.80

BUFFALO SEWER AUTHORITY

CSO-053 SEWER PATROL POINT (SPP) MODIFICATIONS

PRELIMINARY ENGINEERING OPINION OF PROBABLE CONSTRUCTION COST

DATE: 6/3/2024

SPP165B - HUMBOLDT PKWY.

ITEM NO.	DESCRIPTION		COST
1	NEW DIVISION STRUCTURE	$	160,000.00
2	SEWER PIPE AND MANHOLES	$	1,341,000.00
3	SITE RESTORATION	$	157,000.00
4	WORK ZONE TRAFFIC CONTROL	$	133,000.00
	SUBTOTAL:	$	1,791,000.00
	CONSTRUCTION CONTINGENCY 10%	$	179,100.00
	SUBTOTAL:	$	1,970,100.00
	CONTRACTOR MOBILIZATION 4%	$	78,804.00
	GENERAL CONDITIONS, BONDS, INSURANCES 3%	$	59,103.00
	SUBTOTAL:	$	2,108,007.00

Today	6/10/2024	
Target const start	4/1/2026	
Target const end	6/1/2030	
Estimated Midpoint	2/5/2027	2.66
Estimated Project Duration (yrs)	4.17	
Assumed inflation rate	0.04	

Humboldt

Budget for IUP Listing	Amount	Escalated to midpoint of construction
1. Construction Costs:	$ 2,108,007.00	$ 2,339,584.48
2. Equipment Costs:		$ -
3. Work Force Costs:		$ -
4. Engineering Fees:		$ -
4.a. Planning:		$ -
4.b. Design:	$ 316,201.05	$ 350,937.67
4.c. Construction:	$ 316,201.05	$ 350,937.67
5. Other Expense:		$ -
5.a. Local Counsel:		$ -
5.b. Bond Counsel:		$ -
5.c. Fiscal Services:		$ -
5.d. Miscellaneous:	$ 105,400.35	$ 116,979.22
6. Contingencies*:	$ 996,033.31	$ 1,105,453.67
Total Project Costs:	$ 3,841,842.76	$ 4,263,892.71
	In 2024	Midpoint of construction

*Overall project contingency

BUFFALO SEWER AUTHORITY

CSO-053 SEWER PATROL POINT (SPP) MODIFICATIONS

PRELIMINARY ENGINEERING OPINION OF PROBABLE CONSTRUCTION COST

SPP338 - BAILEY AVE.

Today 6/10/2024

Target const start 4/1/2026

ITEM NO.	DESCRIPTION		COST
1	FURNISH AND INSTALL FABRICATED STAINLESS STEEL WEIR	$	100,000.00
2	WORK ZONE TRAFFIC CONTROL	$	10,000.00
3	MISC. CONCRETE REPAIR	$	25,000.00
	SUBTOTAL:	$	135,000.00
	CONSTRUCTION CONTINGENCY 10%	$	13,500.00
	SUBTOTAL:	$	148,500.00
	CONTRACTOR MOBILIZATION 4%	$	5,940.00
	GENERAL CONDITIONS, BONDS, INSURANCES 3%	$	4,455.00
	SUBTOTAL:	$	158,895.00

Bailey

Budget for IUP Listing	**Amount**	**Escalated to midpoint of construction**
1. Construction Costs:	$ 158,895.00	$ 176,350.59
2. Equipment Costs:		$ -
3. Work Force Costs:		$ -
4. Engineering Fees:		$ -
4.a. Planning:		$ -
4.b. Design:	$ 23,834.25	$ 26,452.59
4.c. Construction:	$ 23,834.25	$ 26,452.59
5. Other Expense:		$ -
5.a. Local Counsel:		$ -
5.b. Bond Counsel:		$ -
5.c. Fiscal Services:		$ -
5.d. Miscellaneous:	$ 7,944.75	$ 8,817.53
6. Contingencies*:	$ 75,077.89	$ 83,325.65
Total Project Costs:	$ 289,586.14	$ 321,398.95

BUFFALO SEWER AUTHORITY

CSO-053 SEWER PATROL POINT (SPP) MODIFICATIONS

PRELIMINARY ENGINEERING OPINION OF PROBABLE CONSTRUCTION COST

SPP175 - MICHIGAN AVE. AT DODGE ST.

ITEM NO.	DESCRIPTION	COST
1	INSTALL FABRICATED STAINLESS STEEL WEIR MODIFICATION	$ 36,000.00
2	WORK ZONE TRAFFIC CONTROL	$ 8,000.00
3	MISC. CONCRETE REPAIR	$ 10,000.00
	SUBTOTAL:	$ 54,000.00
	CONSTRUCTION CONTINGENCY 10%	$ 5,400.00
	SUBTOTAL:	$ 59,400.00
	CONTRACTOR MOBILIZATION 4%	$ 2,376.00
	GENERAL CONDITIONS, BONDS, INSURANCES 3%	$ 1,782.00
	SUBTOTAL:	$ 63,558.00

SPP176 - MICHIGAN AVE. AT RILEY ST.

ITEM NO.	DESCRIPTION	COST
1	INSTALL FABRICATED STAINLESS STEEL WEIR MODIFICATION	$ 13,000.00
2	WORK ZONE TRAFFIC CONTROL	$ 6,000.00
3	MISC. CONCRETE REPAIR	$ 10,000.00
	SUBTOTAL:	$ 29,000.00
	CONSTRUCTION CONTINGENCY 10%	$ 2,900.00
	SUBTOTAL:	$ 31,900.00
	CONTRACTOR MOBILIZATION 4%	$ 1,276.00
	GENERAL CONDITIONS, BONDS, INSURANCES 3%	$ 957.00
	SUBTOTAL:	$ 34,133.00

Today 6/10/2024

Target const start 4/1/2026

Michigan

Budget for IUP Listing	Amount	Escalated to midpoint of construction
1. Construction Costs:	$ 133,001.00	$ 147,611.97
2. Equipment Costs:		$ -
3. Work Force Costs:		$ -
4. Engineering Fees:		$ -
4.a. Planning:		$ -
4.b. Design:	$ 19,950.15	$ 22,141.80
4.c. Construction:	$ 19,950.15	$ 22,141.80
5. Other Expense:		$ -
5.a. Local Counsel:		$ -
5.b. Bond Counsel:		$ -
5.c. Fiscal Services:		$ -
5.d. Miscellaneous:	$ 6,650.05	$ 7,380.60
6. Contingencies*:	$ 62,842.97	$ 69,746.66
Total Project Costs:	$ 242,394.32	$ 269,022.82

BUFFALO SEWER AUTHORITY

CSO-053 SEWER PATROL POINT (SPP) MODIFICATIONS

PRELIMINARY ENGINEERING OPINION OF PROBABLE CONSTRUCTION COST

SPP177 - MICHIGAN AVE. AT GLENWOOD AVE.

Today 6/10/2024

Target const start 4/1/2026

ITEM NO.	DESCRIPTION		COST
1	INSTALL FABRICATED STAINLESS STEEL WEIR MODIFICATION	$	14,000.00
2	WORK ZONE TRAFFIC CONTROL	$	6,000.00
3	MISC. CONCRETE REPAIR	$	10,000.00
	SUBTOTAL:	$	30,000.00
	CONSTRUCTION CONTINGENCY 10%	$	3,000.00
	SUBTOTAL:	$	33,000.00
	CONTRACTOR MOBILIZATION 4%	$	1,320.00
	GENERAL CONDITIONS, BONDS, INSURANCES 3%	$	990.00
	SUBTOTAL:	$	35,310.00

BUFFALO SEWER AUTHORITY

CSO-053 SEWER PATROL POINT (SPP) MODIFICATIONS

PRELIMINARY ENGINEERING OPINION OF PROBABLE CONSTRUCTION COST

SPP338 - BAILEY AVE.

ITEM NO.	DESCRIPTION	COST
1	FURNISH AND INSTALL FABRICATED STAINLESS STEEL WEIR	$ 100,000.00
2	WORK ZONE TRAFFIC CONTROL	$ 10,000.00
3	MISC. CONCRETE REPAIR	$ 25,000.00
	SUBTOTAL:	$ 135,000.00
	CONTINGENCY 30%	$ 40,500.00
	SUBTOTAL:	$ 175,500.00
	CONTRACTOR MOBILIZATION 4%	$ 7,020.00
	GENERAL CONDITIONS, BONDS, INSURANCES 3%	$ 5,265.00
	SUBTOTAL:	$ 187,785.00
	ENGINEERING, LEGAL, AND ADMINISTRATION 20%	$ 37,557.00
	TOTAL PROJECT COST (2024$):	$ 225,342.00
	TOTAL PROJECT COST (2026$):	**$ 250,000.00**

SPP341A - GENESEE ST.

ITEM NO.	DESCRIPTION	COST
1	DROP SHAFT	$ 1,910,000.00
2	DIVERSION STRUCTURE	$ 500,000.00
3	SEWER PIPE AND MANHOLES	$ 273,000.00
4	SITE RESTORATION	$ 705,000.00
5	WORK ZONE TRAFFIC CONTROL	$ 138,000.00
6	UTILITY COORDINATION AND WATERLINE RELOCATION	$ 78,000.00
7	BYPASS PUMPING	$ 286,200.00
	SUBTOTAL:	$ 3,890,200.00
	CONTINGENCY 30%	$ 1,167,060.00
	SUBTOTAL:	$ 5,057,260.00
	CONTRACTOR MOBILIZATION 4%	$ 202,290.40
	GENERAL CONDITIONS, BONDS, INSURANCES 3%	$ 151,717.80
	SUBTOTAL:	$ 5,411,268.20
	ENGINEERING, LEGAL, AND ADMINISTRATION 20%	$ 1,082,253.64
	TOTAL PROJECT COST (2024$):	$ 6,493,521.84
	TOTAL PROJECT COST (2026$):	**$ 7,030,000.00**

BUFFALO SEWER AUTHORITY

CSO-053 SEWER PATROL POINT (SPP) MODIFICATIONS

PRELIMINARY ENGINEERING OPINION OF PROBABLE CONSTRUCTION COST

SPP175 - MICHIGAN AVE. AT DODGE ST.

ITEM NO.	DESCRIPTION	COST
1	INSTALL FABRICATED STAINLESS STEEL WEIR MODIFICATION	$ 36,000.00
2	WORK ZONE TRAFFIC CONTROL	$ 8,000.00
3	MISC. CONCRETE REPAIR	$ 10,000.00
	SUBTOTAL:	$ 54,000.00
	CONTINGENCY 30%	$ 16,200.00
	SUBTOTAL:	$ 70,200.00
	CONTRACTOR MOBILIZATION 4%	$ 2,808.00
	GENERAL CONDITIONS, BONDS, INSURANCES 3%	$ 2,106.00
	SUBTOTAL:	$ 75,114.00
	ENGINEERING, LEGAL, AND ADMINISTRATION 20%	$ 15,022.80
	TOTAL PROJECT COST (2024$):	$ 90,136.80
	TOTAL PROJECT COST (2026$):	**$ 100,000.00**

SPP176 - MICHIGAN AVE. AT RILEY ST.

ITEM NO.	DESCRIPTION	COST
1	INSTALL FABRICATED STAINLESS STEEL WEIR MODIFICATION	$ 13,000.00
2	WORK ZONE TRAFFIC CONTROL	$ 6,000.00
3	MISC. CONCRETE REPAIR	$ 10,000.00
	SUBTOTAL:	$ 29,000.00
	CONTINGENCY 30%	$ 8,700.00
	SUBTOTAL:	$ 37,700.00
	CONTRACTOR MOBILIZATION 4%	$ 1,508.00
	GENERAL CONDITIONS, BONDS, INSURANCES 3%	$ 1,131.00
	SUBTOTAL:	$ 40,339.00
	ENGINEERING, LEGAL, AND ADMINISTRATION 20%	$ 8,067.80
	TOTAL PROJECT COST (2024$):	$ 48,406.80
	TOTAL PROJECT COST (2026$):	**$ 60,000.00**

BUFFALO SEWER AUTHORITY

CSO-053 SEWER PATROL POINT (SPP) MODIFICATIONS

PRELIMINARY ENGINEERING OPINION OF PROBABLE CONSTRUCTION COST

SPP177 - MICHIGAN AVE. AT GLENWOOD AVE.

ITEM NO.	DESCRIPTION	COST
1	INSTALL FABRICATED STAINLESS STEEL WEIR MODIFICATION	$ 14,000.00
2	WORK ZONE TRAFFIC CONTROL	$ 6,000.00
3	MISC. CONCRETE REPAIR	$ 10,000.00
	SUBTOTAL:	$ 30,000.00
	CONTINGENCY 30%	$ 9,000.00
	SUBTOTAL:	$ 39,000.00
	CONTRACTOR MOBILIZATION 4%	$ 1,560.00
	GENERAL CONDITIONS, BONDS, INSURANCES 3%	$ 1,170.00
	SUBTOTAL:	$ 41,730.00
	ENGINEERING, LEGAL, AND ADMINISTRATION 20%	$ 8,346.00
	TOTAL PROJECT COST (2024$):	$ 50,076.00
	TOTAL PROJECT COST (2026$):	**$ 60,000.00**
	MICHIGAN AVE. TOTAL SPP MODIFICATIONS COST (2026$):	**$ 220,000.00**

APPENDIX G: Engineering Report Certification

Engineering Report Certification

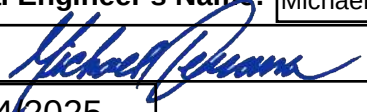
To Be Provided by the Professional Engineer Preparing the Report

During the preparation of this Engineering Report, I have studied and evaluated the cost and effectiveness of the processes, materials, techniques, and technologies for carrying out the proposed project or activity for which assistance is being sought from the New York State Clean Water State Revolving Fund. In my professional opinion, I have recommended for selection, to the maximum extent practicable, a project or activity that maximizes the potential for efficient water use, reuse, recapture, and conservation, and energy conservation, taking into account the cost of constructing the project or activity, the cost of operating and maintaining the project or activity over the life of the project or activity, and the cost of replacing the project and activity.

Title of Engineering Report: CSO-053 Sewer Patrol Point (SPP) Modifications

Date of Report: Jan. 2025

Professional Engineer's Name: Michael A. Terrana, PE

Signature: 

Date: 02/04/2025

APPENDIX H: SPDES Permit and Administrative Order

New York State Department of Environmental Conservation
Division of Environmental Permits, Region 9
270 Michigan Avenue, Buffalo, New York 14203-2915
Phone: (716) 851-7165 **Fax:** (716) 851-7168
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BUFFALO SEWER AUTHORITY
2014 AUG 18 PM 12:40

Joe Martens
Commissioner

August 15, 2014

CERTIFIED MAIL, RETURN RECEIPT

Mr. David P. Comerford
General Manager
Buffalo Sewer Authority
1038 City Hall
Buffalo, New York 14202-3310

Dear Mr. Comerford:

NOTICE OF INTENT TO MODIFY
STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES) PERMIT
DEC NO. 9-1402-00154/00002
SPDES NO. NY 0028410

This is to inform you that pursuant to Environmental Conservation Law, Article 17, Title 8 and 6 NYCRR Part 750, the New York State Department of Environmental Conservation has made a determination to modify your referenced State Pollutant Discharge Elimination System Permit. The modified permit contains the following change from the previous version:

> The BSA CSO Long Term Control Plan (LTCP) was approved on March 18, 2014. The EPA subsequently issued a revised Administrative Order (CWA-02-2014-3033) which addressed implementation of the LTCP.
>
> BSA shall implement the approved CSO LTCP in accordance with the EPA Order (CWA-02-2014-3033) and the implementation schedules contained therein.
>
> This change to this permit is contained on page 18.

This modification will become effective on October 1, 2014 unless you either submit on or prior to September 2, 2014 a written statement giving reasons why the permit should not be so modified or petition for a hearing, and if no written objection is received by this office from the Regional Administrator of the U.S. Environmental Protection Agency. Any such petition for a hearing shall contain specific evidence to support your contention that a hearing is necessary in accordance with 6 NYCRR, Part 621.

Thank you for your cooperation.

Respectfully,

David S. Denk
Regional Permit Administrator

MFP
Enclosures
ecc: Mr. Jeffrey Konsella, NYSDEC, Division of Water, Buffalo, Attn: Mr. William Smythe (w/enc)
Ms. Cheri Jamison, NYSDEC, Bureau of Water Permits, Albany (w/enc)
Mr. Brian Baker, NYSDEC, Division of Water, Albany (w/enc)
Ms. Michelle Josilo, U.S. Environmental Protection Agency, Region II (w/enc)
Erie County Health Department (w/enc)

SPDES Permit Statement of Basis

Permittee: Buffalo Sewer Authority
Facility: Bird Island WWTP
SPDES No: SPDES NO. 0028410

Date: August 15, 2014
Permit Writer: J. Robert Smythe

The department initiated modified draft SPDES permit is proposed and includes new language for implementation of the Buffalo Sewer Authority Long Term Control Plan (LTCP) approved March 18, 2014.

The only change to this permit is contained on page 18, with the following language added:

The BSA CSO Long Term Control Plan (LTCP) was approved on March 18, 2014. The EPA subsequently issued a revised Administrative Order (CWA-02-2014-3033) which addressed implementation of the LTCP.

BSA shall implement the approved CSO LTCP in accordance with the EPA Order (CWA-02-2014-3033) and the implementation schedules contained therein.

This permit may be reopened for modification to include any additional requirements in accordance with 6 NYCRR Part 621.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

State Pollutant Discharge Elimination System (SPDES)
DISCHARGE PERMIT

First3.99

Industrial Code:	**4952**	SPDES Number:	**NY0028410**
Discharge Class (CL):	**05**	DEC Number:	**9-1402-00154/00002**
Toxic Class (TX):	**T**	Effective Date (EDP):	**07/01/2014**
Major Drainage Basin:	**01**	Expiration Date (ExDP):	**06/30/2019**
Sub Drainage Basin:	**01**	Modification Date (EDPM):	**10/01/2014**
Water Index Number:	**Ont 158**		
Compact Area:			

This SPDES permit is issued in compliance with Title 8 of Article 17 of the Environmental Conservation Law of New York State and in compliance with the Clean Water Act, as amended, (33 U.S.C. §1251 et.seq.) (hereinafter referred to as "the Act").

PERMITTEE NAME AND ADDRESS

Name: **Buffalo Sewer Authority** Attention: **David P. Comerford, General Manager**
Street: **1038 City Hall**
City: **Buffalo** State: **NY** Zip Code: **14202-3310**

is authorized to discharge from the facility described below:

FACILITY NAME AND ADDRESS

Name: **Bird Island Wastewater Treatment Facility** Contact: **James Keller Jr.,**
Location (C,T,V): **Buffalo (C)** County: **Erie**
Facility Address: **90 West Ferry Street**
City: **Buffalo** State: **NY** Zip Code: **14213**
NYTM -E: 181.42 NYTM - N: 4759.77
From Outfall No.: **002** at Latitude: **42 ° 55 ′ 16 ″** & Longitude: **78 ° 54 ′ 20 ″**
into receiving waters known as: **Niagara River** Class: **A-Special**

See additional outfalls listing on pages 3 through 5 of this permit.

in accordance with: effluent limitations; monitoring and reporting requirements; other provisions and conditions set forth in this permit; and 6 NYCRR Part 750-1.2(a) and 750-2.

DISCHARGE MONITORING REPORT (DMR) MAILING ADDRESS

Mailing Name: **Buffalo Sewer Authority**
Street: **90 West Ferry Street**
City: **Buffalo** State: **NY** Zip Code: **14213**
Responsible Official or Agent: **Sal LoTempio, Plant Superintendent** Phone: **(716) 883-1820**

This permit and the authorization to discharge shall expire on midnight of the expiration date shown above and the permittee shall not discharge after the expiration date unless this permit has been renewed, or extended pursuant to law. To be authorized to discharge beyond the expiration date, the permittee shall apply for permit renewal not less than 180 days prior to the expiration date shown above.

DISTRIBUTION:
BWP – Permit Writer
BWP – Permit Coordinator
Regional Water Engineer - Region 9
Regional Permit Administrator – Region 9
Michelle Josilo - EPA Region II

Regional Permit Administrator: David S. Denk
Address: NYSDEC - Division of Environmental Permits
270 Michigan Avenue
Buffalo, NY 14203-2915
Signature: Date: 8/15/14

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I. ADDITIONAL OUTFALLS

a) Treatment Plant

Outfall	Type	Location	Latitude	Longitude	Receiving Water
001	Primary Treatment Outfall	West Wall - Bird Island	42° 55' 10" N	78° 54' 16" W	Niagara River
01A	Headworks Bypass	West Wall - Bird Island	42° 55' 01" N	78° 54' 14" W	Niagara River
002	WWTF Outfall	West Wall - Bird Island	42° 55' 16" N	78° 54' 20" W	Niagara River

b) Combined Sewer Overflows

Outfall	Type	Location	Latitude	Longitude	Receiving Water
003	Weir & Orifice	Austin Street	42° 56' 14" N	78° 54' 26" W	Black Rock Canal
004	Leaping Weir	Bird Avenue	42° 55' 34" N	78° 53' 57"W	Black Rock Canal
005	Manhole	Potomac Avenue	42° 55' 27" N	78° 53' 27" W	Black Rock Canal
006	Weir & Orifice	W. Delevan Avenue	42° 55' 20" N	78° 53' 29" W	Black Rock Canal
007	Weir & Orifice	W. Delevan Avenue	42° 55' 20" N	78° 55' 20" W	Black Rock Canal
008	Leaping Weir	Brace Street	42° 55' 15" N	78° 54' 00" W	Black Rock Canal
009	Leaping Weir	Auburn Street	42° 55' 08" N	78° 54' 03" W	Black Rock Canal
010	Leaping Weir	Breckenridge Street	42° 55' 02" N	78° 54' 05" W	Black Rock Canal
011	Weir & Orifice	Albany St to W. Wall - Bird Island	42° 54' 49" N	78° 54' 12" W	Niagara River
012	Weir & Orifice	Albany Street	42° 54' 48" N	78° 54' 07" W	Black Rock Canal
013	Weir & Orifice	Virginia Street	42° 53' 20" N	78° 53' 37" W	Buffalo Harbor
014	Manhole	Fourth Street	42° 53' 01" N	78° 53' 12" W	Erie Basin Slip #3
015	Leaping Weir	Genesee Street	42° 52' 58" N	78° 53' 07" W	Erie Basin Slip
016	Weir & Orifice	Erie Street	42° 52' 55" N	78° 52' 57" W	Erie Basin
017	Manhole	Hamburg Drain, Main Street	42° 52' 38" N	78° 52' 47" W	Buffalo River
022	Manhole	Baltimore Street	42° 52' 23" N	78° 52' 29" W	Buffalo River
023	Manhole	Ohio Street	42° 52' 01" N	78° 52' 05" W	Buffalo River
025	Manhole	Hamburg Street	42° 51' 51" N	78° 51' 37" W	Buffalo River
026	Manhole	Smith Street	42° 51' 49" N	78° 51' 03" W	Buffalo River
027	Weir & Orifice	Babcock Street	42° 51' 48" N	78° 50' 16" W	Buffalo River
028	Manhole	Boone Street	42° 51' 38" N	78° 49' 56" W	Buffalo River

Outfall	Type	Location	Latitude	Longitude	Receiving Water
029	Weir & Orifice	Boone Street	42° 51' 38" N	78° 49' 56" W	Buffalo River
031	Manhole	Kimmel Avenue	42° 21' 37" N	78° 49' 29" W	Cazenovia Creek
032	Manhole	W. of Bailey Avenue	42° 51' 43" N	78° 49' 35" W	Buffalo River
033	Leaping Weir	Bailey Avenue	42° 51' 48" N	78° 49' 33" W	Buffalo River
035	Weir & Orifice	Cazenovia Park	42° 51' 02" N	78° 48' 31" W	Cazenovia Creek
037	Manhole	Salem Street	42° 51' 09" N	78° 48' 41" W	Cazenovia Creek
038	Manhole	Kingston Place	42° 51' 10" N	78° 48' 40" W	Cazenovia Creek
039	Leaping Weir	Tamarack Street	42° 51' 13" N	78° 48' 46" W	Cazenovia Creek
040	Manhole	Yale Place	42° 51' 15" N	78° 48' 46" W	Cazenovia Creek
042	Manhole	S. Ryan Street	42° 51' 19" N	78° 48' 51" W	Cazenovia Creek
044	Manhole	Mumford Street	42° 51' 27" N	78° 49' 06" W	Cazenovia Creek
046	Leaping Weir	Unger Avenue	42° 51' 32" N	78° 49' 13" W	Cazenovia Creek
047	Manhole	Southside Parkway	42° 51' 35" N	78° 49' 22" W	Cazenovia Creek
048	Weir & Orifice	E. of Bailey Ave.	42° 51' 38" N	78° 49' 29" W	Cazenovia Creek
049	Weir & Orifice	W. of Bailey Ave.	42° 51' 42" N	78° 49' 36" W	Buffalo River
050	Weir & Orifice	Seneca Street	42° 51' 20" N	78° 49' 16" W	Buffalo River
051	Weir & Orifice	Hillery Park	42° 51' 43" N	78° 48' 38" W	Buffalo River
052	Weir & Orifice	S. Ogden Street	42° 51' 54" N	78° 48' 08" W	Buffalo River
053	Weir & Gate	Scajaquada Drain	42° 55' 26" N	78° 51' 26" W	Scajaquada Creek
054	Manhole	Crowley Avenue	42° 57' 07" N	78° 54' 36" W	Niagara River
055	Weir	Niagara Street	42° 56' 35" N	78° 54' 35" W	Cornelius Creek, Niagara River
056	Weir	Nottingham Terrace	42° 56' 06" N	78° 52' 39" W	Scajaquada Creek
057	Weir	Tonawanda	42° 55' 43" N	78° 53' 52" W	Scajaquada Creek
058	Weir	West Avenue	42° 55' 49" N	78° 53' 45" W	Scajaquada Creek
059	Weir	DeWitt Street	42° 55' 51" N	78° 53' 39" W	Scajaquada Creek
060	Weir	Elmwood Avenue	42° 56' 04" N	78° 52' 42" W	Scajaquada Creek
061	Weir	Scajaquada Tunnel, Lafayette Avenue	42° 55' 15" N	78° 54' 01" W	Black Rock Canal
062	Weir	West Ferry Street	42° 54' 55" N	78° 54' 07" W	Black Rock Canal
063	Weir	Front Park	42° 54' 10" N	78° 54' 07" W	Black Rock Canal

Outfall	Type	Location	Latitude	Longitude	Receiving Water
064	Manhole	Ohio Drain, Ohio Street	42° 51' 59" N	78° 52' 06" W	Buffalo River
066	Manhole	Sloan Drain, S. Ogden Street	42° 51' 53" N	78° 49' 21" W	Buffalo River

II. PERMIT LIMITS, LEVELS AND MONITORING DEFINITIONS

OUTFALL	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
	This cell describes the type of wastewater authorized for discharge. Examples include process or sanitary wastewater, storm water, non-contact cooling water.	This cell lists classified waters of the state to which the listed outfall discharges.	The date this page starts in effect. (e.g. EDP or EDPM)	The date this page is no longer in effect. (e.g. ExDP)

PARAMETER	MINIMUM	MAXIMUM	UNITS	SAMPLE FREQ.	SAMPLE TYPE
e.g. pH, TRC, Temperature, D.O.	The minimum level that must be maintained at all instants in time.	The maximum level that may not be exceeded at any instant in time.	SU, °F, mg/l, etc.		

PARA-METER	EFFLUENT LIMIT	PRACTICAL QUANTITATION LIMIT (PQL)	ACTION LEVEL	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE
	Limit types are defined below in Note 1. The effluent limit is developed based on the more stringent of technology-based limits, required under the Clean Water Act, or New York State water quality standards. The limit has been derived based on existing assumptions and rules. These assumptions include receiving water hardness, pH and temperature; rates of this and other discharges to the receiving stream; etc. If assumptions or rules change the limit may, after due process and modification of this permit, change.	For the purposes of compliance assessment, the analytical method specified in the permit shall be used to monitor the amount of the pollutant in the outfall to this level, provided that the laboratory analyst has complied with the specified quality assurance/quality control procedures in the relevant method. Monitoring results that are lower than this level must be reported, but shall not be used to determine compliance with the calculated limit. This PQL can be neither lowered nor raised without a modification of this permit.	Type I or Type II Action Levels are monitoring requirements, as defined below in Note 2 that trigger additional monitoring and permit review when exceeded.	This can include units of flow, pH, mass, Temperature, concentration. Examples include µg/l, lbs/d, etc.	Examples include Daily, 3/week, weekly, 2/month, monthly, quarterly, 2/yr and yearly.	Examples include grab, 24 hour composite and 3 grab samples collected over a 6 hour period.

Note 1: DAILY DISCHARGE: The discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for the purposes of sampling. For pollutants expressed in units of mass, the 'daily discharge' is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the 'daily discharge' is calculated as the average measurement of the pollutant over the day.

DAILY MAX.: The highest allowable daily discharge. DAILY MIN.: The lowest allowable daily discharge.

MONTHLY AVG: The highest allowable average of daily discharges over a calendar month, calculated as the sum of each of the daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

7 DAY ARITHMETIC MEAN (7 day average): The highest allowable average of daily discharges over a calendar week.

30 DAY GEOMETRIC MEAN: The highest allowable geometric mean of daily discharges over a calendar month, calculated as the antilog of : the sum of the log of each of the daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

7 DAY GEOMETRIC MEAN: The highest allowable geometric mean of daily discharges over a calendar week.

RANGE: The minimum and maximum instantaneous measurements for the reporting period must remain between the two values shown.

Note 2: ACTION LEVELS: Routine Action Level monitoring results, if not provided for on the Discharge Monitoring Report (DMR) form, shall be appended to the DMR for the period during which the sampling was conducted. If the additional monitoring requirement is triggered as noted below, the permittee shall undertake a short-term, high-intensity monitoring program for the parameter(s). Samples identical to those required for routine monitoring purposes shall be taken on each of at least three consecutive operating and discharging days and analyzed. Results shall be expressed in terms of both concentration and mass, and shall be submitted no later than the end of the third month following the month when the additional monitoring requirement was triggered. Results may be appended to the DMR or transmitted under separate cover to the same address. If levels higher than the Action Levels are confirmed, the permit may be reopened by the Department for consideration of revised Action Levels or effluent limits. The permittee is not authorized to discharge any of the listed parameters at levels which may cause or contribute to a violation of water quality standards. TYPE I: The additional monitoring requirement is triggered upon receipt by the permittee of any monitoring results in excess of the stated Action Level. TYPE II: The additional monitoring requirement is triggered upon receipt by the permittee of any monitoring results that show the stated action level exceeded for four of six consecutive samples, or for two of six consecutive samples by 20 % or more, or for any one sample by 50 % or more.

III. PERMIT LIMITS, LEVELS AND MONITORING

a) Effluent Limits for Outfall 002

OUTFALL No.	LIMITATIONS APPLY:	RECEIVING WATER	EFFECTIVE	EXPIRING
002	All Year unless otherwise noted	Niagara River	01/01/2010	06/30/2014

PARAMETER	EFFLUENT LIMIT					MONITORING REQUIREMENTS				FN
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location Inf.	Location Eff.	
Flow	MRA	180	MGD			Continuous	Recorder	X		1, 5
BOD_5	Monthly average	30	mg/l	45036	lbs/d	1/day	24-hr. comp.	X	X	2
BOD_5	7 day average	45	mg/l	67554	lbs/d	1/day	24-hr. comp.	X	X	
Solids, Total Suspended	Monthly average	30	mg/l	45036	lbs/d	1/day	24-hr. comp.	X	X	2
Solids, Total Suspended	7 day average	45	mg/l	67554	lbs/d	1/day	24-hr. comp.	X	X	
Solids, Settleable	Daily Maximum	0.3	ml/l			6/day	grab	X	X	3
pH	Range	6.0 – 9.0	SU			6/day	grab	X	X	
Nitrogen, Ammonia (as NH_3)	Daily Maximum	Monitor	mg/l			1/month	24-hr. comp.	X	X	
Nitrogen, TKN (as N)	Daily Maximum	Monitor	mg/l			1/month	24-hr. comp.	X	X	
Temperature	Daily Maximum	Monitor	Deg F			6/day	grab	X	X	
Phenols, Total	Monthly average			36.6	lbs/d	1/month	24-hr. comp.		X	
Phosphorus, Total (as P)	Monthly average	1.0	mg/l			1/day	24-hr. comp.		X	
Mercury, Total	Daily Maximum	50	ng/l			1/month	Grab			4
Effluent Disinfection required: [X] All Year [ ] Seasonal from _____ to										
Coliform, Fecal	30 day geometric mean	200	No./ 100 ml			1/day	grab		X	6
Coliform, Fecal	7 day geometric mean	400	No./ 100 ml			1/day	grab		X	6
Chlorine, Total Residual	Daily Maximum	2.0	mg/l			6/day	grab		X	3, 6

FOOTNOTES:

1. The 12 month rolling average (MRA) shall be the average of the monthly average of the current month plus the monthly average of the eleven previous months.
2. A monthly effluent value shall not exceed 15 % and 15 % of influent values for BOD 5 & TSS respectively for flows up to 180 MGD.
3. The sample measurement for each day is calculated as the arithmetic mean of the total number of daily samples. Therefore the daily maximum is the highest of the approximately 30 daily arithmetic means calculated. The definition is derived from the DMR Manual, NYSDEC, 2002, Page 9, Section 4.4.
4. The proposed limit will be **50 ng/l** until the Department reviews the Mercury Minimization Program (MMP). The calculated Water Quality Based Effluent Limit (WQBEL) for Mercury is 0.7 ng/l based on the Water Quality Evaluation for this discharge. However available information indicates this concentration is not achievable by this treatment facility. Therefore, Best Professional Judgement (BPJ) has been used to determine an interim limit of 50 ng/L the permittee can comply with. The goal of the MMP is to attain calculated WQBEL.
5. This outfall shall be utilized in accordance with the existing Wet Weather Operating Plan.
6. Monitoring of these parameters is only required during the period when disinfection is required.

b) Type II Action Level Monitoring for Outfall 002

OUTFALL NUMBER	WASTEWATER TYPE	EFFECTIVE	EXPIRING
002	Municipal with contributing industries	01/01/2010	06/30/2014

PARAMETER	ACTION LEVEL	UNITS	PQL (lbs/day)	SAMPLE FREQUENCY	SAMPLE TYPE	FN
Cadmium, Total	30	lbs/d	0.6	1/month	24 hr. comp.	
Chromium, Total	12.5	lbs/d	6.0	1/month	24-hr. comp.	
Copper, Dissolved	Monitor	lbs/d		1/month	24-hr. comp.	
Copper, Total	31.9	lbs/d	6.0	1/month	24 hr. comp.	
Cyanide, Total	90.0	lbs/d	90	1/month	24-hr. comp.	
Lead, Total	66.2	lbs/d	6.0	1/month	24-hr. comp.	
Nickel, Total	43.8	lbs/d	6.0	1/month	24 hr. comp.	
Zinc, Total	174	lbs/d	0.3	1/month	24-hr. comp.	
Zinc, Dissolved	Monitor	lbs/d		1/month	24-hr. comp.	
Bis(2-Ethylhexyl)Phthalate	16.7	lbs/d	12.0	1/month	24-hr. comp.	

c) Monitoring Requirements for Outfall 001

OUTFALL No.	LIMITATIONS APPLY:	RECEIVING WATER	EFFECTIVE	EXPIRING
001	All Year unless otherwise noted	Niagara River	01/01/2010	06/30/2014

PARAMETER	EFFLUENT LIMIT			MONITORING REQUIREMENTS				FN
						Location		
	Type	Limit	Units	Sample Frequency	Sample Type	Inf.	Eff.	
Flow	Monthly Total	Monitor	MGD	Continuous	Recorder/Totalizer		X	1, 2
BODs	Daily Max.	Monitor	mg/l	1/Event	Composite		X	3
Solids, Suspended	Daily Max.	Monitor	mg/l	1/Event	Composite		X	3
Solids, Settleable	Daily Max.	Monitor	ml/l	1/Event	grab		X	4
Ammonia as N, mg/l, lbs/day	Daily Max.	Monitor	mg/l	1/Event	Composite		X	3
TKN as N	Daily Max.	Monitor	mg/l	1/Event	Composite		X	3
Phosphorus	Daily Max.	Monitor	mg/l	1/Event	Composite		X	3
Oil & Grease	Daily Max.	Monitor	mg/l	1/Event	grab		X	3
Coliform, Fecal	30 day geometric mean	Monitor	No./ 100 ml	1/Event	grab		X	4
Coliform, Fecal	7 day geometric mean	Monitor	No./ 100 ml	1/Event	grab		X	4
Chlorine, Total Residual	Daily Max.	2.0	mg/l	1/Event	grab		X	4

FOOTNOTES

1. Flows shall be managed in accordance to the existing Wet Weather Operating Plan. All flows up to the headworks capacity and not passed through outfall 002 shall be passed through outfall 001. This requirement may be superseded by the provisions in the ongoing Consent Decree.
2. Flow shall be continuously recorded and totalized. Flow reported on the Discharge Monitoring Report shall be the total flow discharge for the calendar month reporting period.
3. Samples shall be composite of grab samples, one taken every four hours.
4. Grab samples to be taken every four hours during each event.

IV. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR HEADWORKS BYPASS ROUTINE MONITORING REQUIREMENTS

OUTFALL No.	LIMITATIONS APPLY:			EFFECTIVE		EXPIRING		
001A	All Year unless otherwise noted			01/01/2010		06/30/2014		
PARAMETER	EFFLUENT LIMIT			MONITORING REQUIREMENTS				
	Type	Limit	Units	Sample Frequency	Sample Type	Location		FN
						Inf.	Eff.	
Flow, MG	Monthly Total	Monitor	MGD	1/Event	Estimated	X		(1)
BOD,5-day mg/l	Daily Max.	Monitor	mg/l	1/Event	Grab		X	
Solids, Suspended mg/l	Daily Max.	Monitor	mg/l	1/Event	Grab		X	
Solids, Settleable ml/l	Daily Max.	Monitor	ml/l	1/Event	Grab		X	
Oil & Grease mg/l	Daily Max.	Monitor	mg/l	1/Event	Grab		X	

(1) This outfall shall be used in accordance with the existing Wet Weather Operating Plan and/or for emergency use only.

V. WHOLE EFFLUENT TOXICITY

PARAMETER	EFFLUENT LIMIT		PQL	MONITORING ACTION LEVEL		UNITS	SAMPLE FREQUENCY	SAMPLE TYPE
	Monthly Avg.	Daily Max.	Daily Max.	TYPE I	TYPE II			
WET - Chronic Invertebrate				101		TUc	Quarterly	Footnote 1
WET - Chronic Vertebrate				101		TUc	Quarterly	Footnote 1

Footnote
1. **Whole Effluent Toxicity Testing for Outfall 002**

Testing Requirements - WET testing shall consist of **Chronic only**. WET testing shall be performed in accordance with 40 CFR Part 136 and TOGS 1.3.2 unless prior written approval has been obtained from the Department. The test species shall be *Ceriodaphnia dubia* (water flea - invertebrate) and *Pimephales promelas* (fathead minnow - vertebrate). Receiving water collected upstream from the discharge should be used for dilution. All tests conducted should be static-renewal (two 24 hr composite samples with one renewal for Acute tests and three 24 hr composite samples with two renewals for Chronic tests). The appropriate dilution series bracketing the IWC and including one exposure group of 100% effluent should be used to generate a definitive test endpoint, otherwise an immediate rerun of the test is required. WET testing shall be coordinated with the monitoring of chemical and physical parameters limited by this permit so that the resulting analyses are also representative of the sample used for WET testing. The ratio of critical receiving water flow to discharge flow (i.e. dilution ratio) is **50:1** for acute, and **100:1** for chronic. Discharges which are disinfected using chlorine should be dechlorinated prior to WET testing or samples shall be taken immediately prior to the chlorination system.

Monitoring Period - WET testing shall be performed at the specified sample frequency **during calendar years ending in _2_ and _7.**

Reporting - Toxicity Units shall be calculated and reported on the DMR as follows: TUa = (100)/(48 hr LC50) or (100)/(48 hr EC50) (note that Acute data is generated by both Acute and Chronic testing) and TUc = (100)/(NOEC) when Chronic testing has been performed or TUc = (TUa) x (10) when only Acute testing has been performed and is used to predict Chronic test results, where the 48 hr LC50 or 48 hr EC50 and NOEC are expressed in % effluent. This must be done for both species and using the Most Sensitive Endpoint (MSE) or the lowest NOEC and corresponding highest TUc. Report a TUa of 0.3 if there is no statistically significant toxicity in 100% effluent as compared to control.

The complete test report including all corresponding results, statistical analyses, reference toxicity data, daily average flow at the time of sampling and other appropriate supporting documentation, shall be submitted within 60 days following the end of each test period to the Toxicity Testing Unit. A summary page of the test results for the invertebrate and vertebrate species indicating TUa, 48 hr LC50 or 48 hr EC50 for Acute tests and/or TUc, NOEC, IC25, and most sensitive endpoints for Chronic tests, should also be included at the beginning of the test report.

WET Testing Action Level Exceedances - If an action level is exceeded then the Department may require the permittee to conduct additional WET testing including Acute and/or Chronic tests. Additionally, the permittee may be required to perform a Toxicity Reduction Evaluation (TRE) in accordance with Department guidance. If such additional testing or performance of a TRE is necessary, the permittee shall be notified in writing by the Regional Water Engineer. The written notification shall include the reason(s) why such testing or a TRE is required.

VI. PRETREATMENT PROGRAM IMPLEMENTATION REQUIREMENTS

A. DEFINITIONS. Generally, terms used in this Section shall be defined as in the General Pretreatment Regulations (40 CFR Part 403). Specifically, the following definitions apply to terms used in this Section (PRETREATMENT PROGRAM IMPLEMENTATION REQUIREMENTS):

1. Categorical Industrial User (CIU)- an industrial user of the POTW that is subject to Categorical Pretreatment Standards under 40 CFR 403.6 and 40 CFR Chapter I, Subchapter N;

2. Local Limits - General Prohibitions, specific prohibitions and specific limits as set forth in 40 CFR 403.5.

3. The Publicly Owned Treatment Works (the POTW) - as defined by 40 CFR 403.3(q) and that discharges in accordance with this permit.

4. Program Submission(s) - requests for approval or modification of the POTW Pretreatment Program submitted in accordance with 40 CFR 403.11 or 403.18 and approved by letter dated September 11, 1984.

5. Significant Industrial User (SIU) -

   a. CIUs;

   b. Except as provided in 40 CFR 403.3(v)(3), any other industrial user that discharges an average of 25,000 gallons per day or more of process wastewater (excluding sanitary, non-contact cooling and boiler blowdown wastewater) to the POTW;

   c. Except as provided in 40 CFR 403.3(v)(3), any other industrial user that contributes a process wastestream which makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the POTW treatment plant;

   d. Any other industrial user that the permittee designates as having a reasonable potential for adversely affecting the POTW's operation or for violating a pretreatment standard or requirement.

6. Substances of Concern - Substances identified by the New York State Department of Environmental Conservation Industrial Chemical Survey as substances of concern.

B. IMPLEMENTATION. The permittee shall implement a POTW Pretreatment Program in accordance 40 CFR Part 403 and as set forth in the permittee's approved Program Submission(s). Modifications to this program shall be made in accordance with 40 CFR 403.18. Specific program requirements are as follows:

1. Industrial Survey. To maintain an updated inventory of industrial dischargers to the POTW the permittee shall:

   a. Identify, locate and list all industrial users who might be subject to the industrial pretreatment program from the pretreatment program submission and any other necessary, appropriate and available sources. This identification and location list will be updated, at a minimum, every five years. As part of this update the permittee shall collect a current and complete New York State Industrial Chemical Survey form (or equivalent) from each SIU.

   b. Identify the character and volume of pollutants contributed to the POTW by each industrial user identified in B.1.a above that is classified as a SIU.

   c. Identify, locate and list, from the pretreatment program submission and any other necessary, appropriate and available sources, all significant industrial users of the POTW.

2. Control Mechanisms. To provide adequate notice to and control of industrial users of the POTW the permittee shall:

a. Inform by certified letter, hand delivery courier, overnight mail, or other means which will provide written acknowledgment of delivery, all industrial users identified in B.1.a. above of applicable pretreatment standards and requirements including the requirement to comply with the local sewer use law, regulation or ordinance and any applicable requirements under section 204(b) and 405 of the Federal Clean Water Act and Subtitles C and D of the Resource Conservation and Recovery Act.

b. Control through permit or similar means the contribution to the POTW by each SIU to ensure compliance with applicable pretreatment standards and requirements. Permits shall contain limitations, sampling frequency and type, reporting and self-monitoring requirements as described below, requirements that limitations and conditions be complied with by established deadlines, an expiration date not later than five years from the date of permit issuance, a statement of applicable civil and criminal penalties and the requirement to comply with Local Limits and any other requirements in accordance with 40 CFR 403.8(f)(1).

3. Monitoring and Inspection. To provide adequate, ongoing characterization of non-domestic users of the POTW, the permittee shall:

a. Receive and analyze self-monitoring reports and other notices. The permittee shall require all SIUs to submit self-monitoring reports at least every six months unless the permittee collects all such information required for the report, including flow data.

b. The permittee shall adequately inspect each SIU at a minimum frequency of once per calendar year.

c. The permittee shall collect and analyze samples from each SIU for all priority pollutants that can reasonably be expected to be detectable at levels greater than the levels found in domestic sewage at a minimum frequency of once per year.

d. Require, through permits, each SIU to collect at least one 24 hour, flow proportioned composite (where feasible) effluent sample every six months and analyze each of those samples for all priority pollutants that can reasonably be expected to be detectable in that discharge at levels greater than the levels found in domestic sewage. The permittee may perform the aforementioned monitoring in lieu of the SIU except that the permittee must also perform the compliance monitoring described in 3.c.

4. Enforcement. To assure adequate, equitable enforcement of the industrial pretreatment program the permittee shall:

a. Investigate instances of noncompliance with pretreatment standards and requirements, as indicated in self-monitoring reports and notices or indicated by analysis, inspection and surveillance activities. Sample taking and analysis and the collection of other information shall be performed with sufficient care to produce evidence admissible in enforcement proceedings or in judicial actions. Enforcement activities shall be conducted in accordance with the permittee's Enforcement Response Plan developed and approved in accordance with 40 CFR Part 403.

b. Enforce compliance with all national pretreatment standards and requirements in 40 CFR Parts 406 - 471.

c. Provide public notification of significant non-compliance as required by 40 CFR 403.8(f)(2)(viii).

d. Pursuant to 40 CFR 403.5(e), when either the Department or the USEPA determines any source contributes pollutants to the POTW in violation of Pretreatment Standards or Requirements the Department or the USEPA shall notify the permittee. Failure by the permittee to commence an appropriate investigation and subsequent enforcement action within 30 days of this notification may result in appropriate enforcement action against the source and permittee.

5. Record keeping. The permittee shall maintain and update, as necessary, records identifying the nature, character, and volume of pollutants contributed by SIUs. Records shall be maintained in accordance with 6 NYCRR Part 750-2.5(c).

6. Staffing. The permittee shall maintain minimum staffing positions committed to implementation of the Industrial

Pretreatment Program in accordance with the approved pretreatment program.

C. SLUDGE DISPOSAL PLAN. The permittee shall notify NYSDEC, and USEPA as long as USEPA remains the approval authority, 60 days prior to any major proposed change in the sludge disposal plan. NYSDEC may require additional pretreatment measures or controls to prevent or abate an interference incident relating to sludge use or disposal.

D. REPORTING. The permittee shall provide to the offices listed on the Monitoring, Reporting and Recording page of this permit and to the Chief-Water Compliance Branch; USEPA Region II; 290 Broadway; New York, NY 10007; an annual report that briefly describes the permittee's program activities over the previous year. This report shall be submitted to the above noted offices within 60 days of the end of the reporting period. The reporting period shall be annual with reporting period(s) ending on April 30 of each year.

The annual report shall include:

1. Industrial Survey. Updated industrial survey information in accordance with 40 CFR 403.12(i)(1) (including any NYS Industrial Chemical Survey forms updated during the reporting period).

2. Implementation Status. Status of Pretreatment Program Implementation, to include:

   a. Any interference upset or permit violations experienced at the POTW directly attributable to industrial users.

   b. Listing of significant industrial users issued permits.

   c. Listing of significant industrial users inspected and/or monitored during the previous reporting period and summary of results.

   d. Listing of significant industrial users notified of promulgated pretreatment standards or applicable local standards that are on compliance schedules. The listing should include for each facility the final date of compliance.

   e. Summary of POTW monitoring results not already submitted on Discharge Monitoring Reports and toxic loadings from SIU's organized by parameter.

   f. A summary of additions or deletions to the list of SIUs, with a brief explanation for each deletion.

3. Enforcement Status. Status of enforcement activities to include:

   a. Listing of significant industrial users in Significant Non-Compliance (as defined by 40 CFR 403.8(f)(2)(viii)) with federal or local pretreatment standards at end of the reporting period.

   b. Summary of enforcement activities taken against non-complying significant industrial users. The permittee shall provide a copy of the public notice of significant violators as specified in 40 CFR Part 403.8(f)(2)(viii).

VII. BEST MANAGEMENT PRACTICES FOR COMBINED SEWER OVERFLOWS

The permittee shall implement the following Best Management Practices (BMPs). These BMPs are designed to implement operation & maintenance procedures, utilize the existing treatment facility and collection system to the maximum extent practicable, and implement sewer design, replacement and drainage planning, to maximize pollutant capture and minimize water quality impacts from combined sewer overflows. The BMPs are equivalent to the "Nine Minimum Control Measures" required under the USEPA National Combined Sewer Overflow policy. The EPA's policy is available at http://cfpub.epa.gov/npdes/cso/cpolicy.cfm?program_id=5.

1. CSO Maintenance/Inspection - The permittee shall develop a written maintenance and inspection program for all CSOs listed on page(s) 3-5 of this permit. This program shall include all regulators tributary to these CSOs, and shall be conducted during periods of both dry and wet weather. This is to insure that no discharges occur during dry weather and that the maximum amount of wet weather flow is conveyed to the Bird Island POTW for treatment. This program shall consist of inspections with required repair, cleaning and maintenance done as needed. This program shall consist of monthly inspections.

   Inspection reports shall be completed indicating visual inspection, any observed flow, incidence of rain or snowmelt, condition of equipment and work required. These reports shall be in a format approved by the Regional Office and submitted to the Region with the monthly operating report (Form 92-15-7).

2. Maximum Use of Collection System for Storage - The permittee shall optimize the collection system by operating and maintaining it to minimize the discharge of pollutants from CSOs. It is intended that the maximum amount of in-system storage capacity be used (without causing service backups) to minimize CSOs and convey the maximum amount of combined sewage to the treatment plant in accordance with Item 4 below.

   This shall be accomplished by an evaluation of the hydraulic capacity of the system but should also include a continuous program of flushing or cleaning to prevent deposition of solids and the adjustment of regulators and weirs to maximize storage.

3. Industrial Pretreatment - The approved Industrial Pretreatment Program shall consider CSOs in the calculation of local limits for indirect discharges. Discharge of persistent toxics upstream of CSOs will be in accordance with guidance under (NYSDEC Division of Water Technical and Operational Guidance Series **(TOGS) 1.3.8 New Discharges to POTWs**. (http://www.dec.ny.gov/regulations/2652.html). For industrial operations characterized by use of batch discharge, consideration shall be given to the feasibility of a schedule of discharge during conditions of no CSO. For industrial discharges characterized by continuous discharge, consideration must be given to the collection system capacity to maximize delivery of waste to the treatment plant. Non-contact cooling water should be excluded from the combined system to the maximum extent practicable. Direct discharges of cooling water must apply for a SPDES permit. To the maximum extent practicable, consideration shall be given to maximize the capture of non-domestic waste containing toxic pollutants and this wastewater should be given priority over residential/commercial service areas for capture and treatment by the POTW.

4. Maximize Flow to POTW - Factors cited in Item 2. above shall also be considered in maximizing flow to the POTW. Maximum delivery to the POTW is particularly critical in treatment of "first-flush" flows. The treatment plant shall be capable of receiving and treating: the peak design hydraulic loading rates for all process units; i.e., a minimum of 450MGD through the plant headworks; and a minimum of 300 MGD through the secondary treatment works during wet weather in accordance with the existing Wet Weather Operating Plan. The collection system and headworks must be capable of delivering these flows during wet weather. If the permittee cannot deliver maximum design flow for treatment, the permittee shall submit a plan and schedule for accomplishing this requirement within 12 months after the effective date of this permit.

5. Wet Weather Operating Plan - The permittee shall maximize treatment during wet weather events. This shall be accomplished by having a wet weather operating plan containing procedures so as to operate unit processes to treat maximum flows while not appreciably diminishing effluent quality or destabilizing treatment upon return to dry weather operation. The BSA must continue to implement the wet weather operations plan

   The submission of a wet weather operating plan is a one time requirement that shall be done to the Department's satisfaction once. However, a revised wet weather operating plan must be submitted whenever the POTW and/or sewer collection system is significantly replaced or modified in a manner that impacts flows at Bird Island WWTP. When this permit is administratively renewed by NYSDEC letter entitled "SPDES NOTICE/RENEWAL APPLICATION/PERMIT", the permittee is not required to repeat the submission. The above due dates are independent from the effective date of the permit stated in the letter of "SPDES NOTICE/RENEWAL APPLICATION/PERMIT".

6. Prohibition of Dry Weather Overflow - Dry weather overflows from the combined sewer system are prohibited. The occurrence of any dry weather overflow shall be promptly abated and reported to the NYSDEC Region 9 Office within 24 hours. A written report shall also be submitted within fourteen (14) days of the time the permittee becomes aware of the occurrence. The occurrence of any dry weather overflow shall be promptly abated and reported to the NYSDEC Regional Office in accordance with 6 NYCRR Part 750-2.7.

7. Control of Floatable and Settleable Solids - The discharge of floating solids, oil and grease, or solids of sewage origin which cause deposition in the receiving waters, is a violation of the NYS Narrative Water Quality Standards contained in Part 703. As such, the permittee shall implement best management practices in order to eliminate or minimize the discharge of these substances. All of the measures cited in Items 1, 2, 4 & 5 above shall constitute approvable "BMPs" for mitigation of this problem. If aesthetic problems persist, the permittee should consider additional BMP's including but not limited to: street sweeping, litter control laws, installation of floatables traps in catch basins (such as hoods), booming and skimming of CSOs, and disposable netting on CSO outfalls. In cases of severe or excessive floatables generation, booming and skimming should be considered an interim measure prior to implementation of final control measures. Public education on harmful disposal practices of personal hygienic devices may also be necessary including but not limited to: public broadcast television, printed information inserts in sewer bills, or public health curricula in local schools.

8. Combined Sewer System Replacement - Replacement of combined sewers shall not be designed or constructed unless approved by NYSDEC. When replacement of a combined sewer is necessary it shall be replaced by separate sanitary and storm sewers to the greatest extent possible. These separate sanitary and storm sewers shall be designed and constructed simultaneously but without interconnections to maximum extent practicable. When combined sewers are replaced, the design should contain cross sections which provide sewage velocities which prevent deposition of organic solids during low flow conditions.

9. Combined Sewer/Extension - Combined sewer/extension, when allowed should be accomplished using separate sewers. These sanitary and storm sewer extensions shall be designed and constructed simultaneously but without interconnections. No new source of storm water shall be connected to any separate sanitary sewer in the collection system.

   If separate sewers are to be extended from combined sewers, the permittee shall demonstrate the ability of the sewerage system to convey, and the treatment plant to adequately treat, the increased dry-weather flows. Upon a determination by the Regional Water Engineer an assessment shall be made by the permittee of the effects of the increased flow of sanitary sewage or industrial waste on the strength of CSOs and their frequency of occurrence including the impacts upon best usage of the receiving water. This assessment should use techniques such as collection system and water quality modeling contained in the 1999 Water Environment Federation Manual of Practice FD-17 entitled, Prevention and Control of Sewer System Overflows, 2nd edition.

10. Sewage Backups - If, there are documented, recurrent instances of sewage backing up into house(s) or discharges of raw sewage onto the ground surface from surcharging manholes, the permittee shall, upon letter notification from DEC, prohibit further connections that would make the surcharging/back-up problems worse.

11. Septage and Hauled Waste - The discharge or release of septage or hauled waste upstream of a CSO is prohibited.

12. Control of Run-off - It is recommended that the impacts of run-off from development and re-development in areas served by combined sewers be reduced by requiring compliance with the New York Standards for Erosion and Sediment Control and the quantity control requirements included in the New York State Stormwater Management Design Manual. (http://www.dec.ny.gov/chemical/8694.html).

13. Public Notification - The permittee shall continue to maintain identification signs at all CSO outfalls owned and operated by the permittee. The permittee shall place the signs at or near the CSO outfalls and ensure that the signs are easily readable by the public. The signs shall have **minimum** dimensions of eighteen inches by twenty four inches (18" x 24") and shall have white letters on a green background and contain the following information:

N.Y.S. PERMITTED DISCHARGE POINT
(wet weather discharge)
SPDES PERMIT No.: NY_____

OUTFALL No. :____

For information about this permitted discharge contact:

Permittee Name:

Permittee Contact:

Permittee Phone: ( ) - ### - ####

OR:

The permittee shall implement a public notification program to inform citizens of the location and occurrence of CSO events in accordance with the proposed Consent Order Decree.

14. Characterization and Monitoring - The permittee shall characterize the combined sewer system, determine the frequency of overflows, and identify CSO impacts in accordance with Combined Sewer Overflows, Guidance for Nine Minimum Controls, EPA, 1995, Chapter 10. These are minimum requirements, more extensive characterization and monitoring efforts which may be required as part of the Long Term Control Plan.

15. Annual Report - The permittee shall submit an annual report summarizing implementation of the above best management practices (BMPs). The report shall list existing documentation of implementation of the BMPs and shall be submitted by January 31st of each year to the Regional office listed on the Recording, Reporting and Additional Monitoring page of this permit and to the Bureau of Water Permits, 625 Broadway, Albany, NY 12233-3505. Examples of recommended documentation of the BMPs are found in Combined Sewer Overflows, Guidance for Nine Minimum Controls (NMC), EPA, 1995. The permittee may obtain an electronic copy of the NMC guidance at http://www.epa.gov/npdes/pubs/owm0030.pdf. For guidance on developing the annual report, a BMP checklist is available from DEC on-line at http://www.dec.ny.gov/docs/water_pdf/csobmp.pdf. The permittee must submit a completed copy of this checklist along with the annual report. The actual documentation shall be stored at a central location and be made available to DEC upon request.

VIII. CSO LONG-TERM CONTROL PLAN

The BSA CSO Long Term Control Plan (LTCP) was approved on March 18, 2014. The EPA subsequently issued a revised Administrative Order (CWA-02-2014-3033) which addressed implementation of the LTCP.

BSA shall implement the approved CSO LTCP in accordance with the EPA Order (CWA-02-2014-3033) and the implementation schedules contained therein.

This permit may be reopened for modification to include any additional requirements in accordance with 6 NYCRR Part 621.

IX. STORM WATER POLLUTANT PREVENTION PLAN FOR POTWs WITH STORMWATER OUTFALLS

1. General - The Department has determined that stormwater discharges from POTWs with design flows at or above one MGD shall be covered under the SPDES permit. If the permittee has already submitted a Notice of Intent to the Department for coverage under the General Storm Water permit, the permittee shall submit a Notice of Termination to the Department upon receipt of this final SPDES permit containing the requirement to develop a SWPPP.

The permittee is required to develop, maintain, and implement a Storm Water Pollutant Prevention Plan (SWPPP) to prevent releases of significant amounts of pollutants to the waters of the State through plant site runoff; spillage and leaks; sludge or waste disposal; and other stormwater discharges including, but not limited to, drainage from raw material storage.

The SWPPP shall be documented in narrative form and shall include the 13 minimum elements below and plot plans, drawings, or maps necessary to clearly delineate the direction of stormwater flow and identify the conveyance, such as ditch, swale, storm sewer or sheet flow, and receiving water body. Other documents already prepared for the facility such as a Safety Manual or a Spill Prevention, Control and Countermeasure (SPCC) plan may be used as part of the SWPPP and may be incorporated by reference. A copy of the current SWPPP shall be submitted to the Department as required in item (2.) below and a copy must be maintained at the facility and shall be available to authorized Department representatives upon request.

2. Compliance Deadlines – The BSA shall revise the February 2008 SWPPP developed under the General Permit. The revised plan shall be submitted by **07/01/2010** to the Regional Water Engineer. The SWPPP shall be implemented within 6 months of submission, unless a different time frame is approved by the Department. The SWPPP shall be reviewed annually and shall be modified whenever: (a) changes at the facility materially increase the potential for releases of pollutants; (b) actual releases indicate the SWPPP is inadequate, or (c) a letter from the Department identifies inadequacies in the SWPPP. The permittee shall certify in writing, as an attachment to the December Discharge Monitoring Report (DMR), that the annual review has been completed. All SWPPP revisions (with the exception of minimum elements - see item (4.B.) below) must be submitted to the Regional Water Engineer within 30 days. Note that the permittee is not required to obtain Department approval of the SWPPP (or of any minimum elements) unless notified otherwise. Subsequent modifications to or renewal of this permit does not reset or revise these deadlines unless a new deadline is set explicitly by such permit modification or renewal.

3. Facility Review - The permittee shall review all facility components or systems (including but not limited to material storage areas; in-plant transfer, process, and material handling areas; loading and unloading operations; storm water, erosion, and sediment control measures; process emergency control systems; and sludge and waste disposal areas) where materials or pollutants are used, manufactured, stored or handled to evaluate the potential for the release of pollutants to the waters of the State. In performing such an evaluation, the permittee shall consider such factors as the probability of equipment failure or improper operation, cross-contamination of storm water by process materials, settlement of facility air emissions, the effects of natural phenomena such as freezing temperatures and precipitation, fires, and the facility's history of spills and leaks. The relative toxicity of the pollutant shall be considered in determining the significance of potential releases.

The review shall address all substances present at the facility that are identified in Tables 6-10 of SPDES application Form NY-2C (available at *http://www.dec.state.ny.us/website/dcs/permits/olpermits/form2c.pdf*) as well as those that are required to be monitored by the SPDES permit.

4. A. 13 Minimum elements - Whenever the potential for a release of pollutants to State waters is determined to be present, the permittee shall identify Best Management Practices (BMPs) that have been established to prevent or minimize such potential releases. Where BMPs are inadequate or absent, appropriate BMPs shall be established. In selecting appropriate BMPs, the permittee shall consider good industry practices and, where appropriate, structural measures such as secondary containment and erosion/sediment control devices and practices. USEPA guidance for development of minimum elements of the SWPPP and BMPs is available in the September 1992 manual *Storm Water Management for Industrial Activities,* EPA 832-R-92-006 (available on-line at http://nepis.epa.gov/pubtitleOW.htm). At a minimum, the plan shall include the following elements:

1. Pollution Prevention Team
2. Reporting of BMP Incidents
3. Risk Identification & Assessment
4. Employee Training
5. Inspections and Records
6. Security
7. Preventive Maintenance
8. Good Housekeeping
9. Materials/Waste Handling, Storage, & Compatibility
10. Spill Prevention & Response
11. Erosion & Sediment Control
12. Management of Runoff
13. Street Sweeping

Note that for some facilities, especially those with few employees, some of the above may not be applicable. It is acceptable in these

cases to indicate "Not Applicable" for the portion(s) of the SWPPP that do not apply to your facility, along with an explanation, for instance if street sweeping did not apply because no streets exist at the facility.

B. Stormwater Pollution Prevention Plans (SWPPPs) Required for Discharges of Stormwater From Construction Activity to Surface Waters - As part of the erosion of and sediment control element, a SWPPP shall be developed prior to the initiation of any site disturbance of one acre or more of uncontaminated area. Uncontaminated area means soils or groundwater which are free of contamination by any toxic or non-conventional pollutants identified in Tables 6-10 of SPDES application Form NY-2C. Disturbance of any size contaminated area(s) and the resulting discharge of contaminated stormwater is not authorized by this permit unless the discharge is under State or Federal oversight as part of a remedial program or after review by the Regional Water Engineer; nor is such discharge authorized by any SPDES general permit for stormwater discharges. SWPPPs are not required for discharges of stormwater from construction activity to groundwaters.

The SWPPP shall conform to the *New York Standards and Specifications for Erosion and Sediment Control* and *New York State Stormwater Management Design Manual,* unless a variance has been obtained from the Regional Water Engineer, and to any local requirements. The permittee shall submit a copy of the SWPPP and any amendments thereto to the local governing body and any other authorized agency having jurisdiction or regulatory control over the construction activity at least 30 days prior to soil disturbance. The SWPPP shall also be submitted to the Regional Water Engineer if contamination, as defined above, is involved and the permittee must obtain a determination of any SPDES permit modifications and/or additional treatment which may be required prior to soil disturbance. Otherwise, the SWPPP shall be submitted to the Department only upon request. When a SWPPP is required, a properly completed *Notice of Intent* (NOI) form shall be submitted (available at *www.dec.state.ny.us/website/dow/toolbox/swforms.html*) prior to soil disturbance. Note that submission of a NOI is required for informational purposes; the permittee is not eligible for and will not obtain coverage under any SPDES general permit for stormwater discharges, nor are any additional permit fees incurred. SWPPPs must be developed and submitted for subsequent site disturbances in accordance with the above requirements. The permittee is responsible for ensuring that the provisions of each SWPPP is properly implemented.

Note:
If the permittee is covered under the MS4 permit, the permittee may substitute this to satisfy some of the conditions in this SWPPP.

X. DISCHARGE NOTIFICATION REQUIREMENTS

Sign Maintenance

The permittee shall periodically inspect the outfall identification sign(s) in order to ensure they are maintained, are still visible, and contain information that is current and factually correct. Signs that are damaged or incorrect shall be replaced within 3 months of inspection.

Data Retention

The permittee shall retain records for a minimum period of 5 years in accordance with 6NYCRR Part 750-1.12(b)(2) and Part 750-2.5(c)(1). These records, which include discharge monitoring reports (DMRs) and annual reports, must be retained at a repository accessible to the public. This repository shall be open to the public, at a minimum, during normal daytime business hours. The repository may be the business office, wastewater treatment plant, village, town, city, or county clerk's office, the local library, or other location approved by the Department.

XI. SCHEDULE OF COMPLIANCE

Short-term Hi-Intensity Sampling

Action Code	Outfall Number(s)	Compliance Action	Due Date
	001	The permittee shall conduct sampling for the following parameters detected in the WWTP effluent and listed in the permit application. Sampling shall be once per event for a minimum of **10 events.** The permittee submit the results of the analyses along with the daily flow:	06/01/2010

Parameters	EPA Method of Analysis Required	Sample Type
Arsenic, Total	200.7	24 hr. Comp.
Cadmium, Total	200.7	24 hr. Comp.
Chromium, Total	200.7	24 hr. Comp.
Copper, Total	200.7	24 hr. Comp.
Cyanide, Total	200.7	24 hr. Comp.
Lead, Total	200.7	24 hr. Comp.
Nickel, Total	200.7	24 hr. Comp.
Zinc, Total	200.7	24 hr. Comp.

The above compliance actions are one time requirements. The permittee shall comply with the above compliance actions to the Department's satisfaction once. When this permit is administratively renewed by NYSDEC letter entitled "SPDES NOTICE/RENEWAL APPLICATION/PERMIT", the permittee is not required to repeat the submission. The above due dates are independent from the effective date of the permit stated in the letter of "SPDES NOTICE/RENEWAL APPLICATION/PERMIT."

a) The permittee shall submit a written notice of compliance or non-compliance with each of the above schedule dates no later than 14 days following each elapsed date, unless conditions require more immediate notice in accordance with 6NYCRR Part 750-2.7. All such compliance or non-compliance notification shall be sent to the locations listed under the section of this permit entitled RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS. Each notice of non-compliance shall include the following information:

1. A short description of the non-compliance;
2. A description of any actions taken or proposed by the permittee to comply with the elapsed schedule requirements without further delay and to limit environmental impact associated with the non-compliance;
3. A description or any factors which tend to explain or mitigate the non-compliance; and
4. An estimate of the date the permittee will comply with the elapsed schedule requirement and an assessment of the probability that the permittee will meet the next scheduled requirement on time.

b) The permittee shall submit copies of any document required by the above schedule of compliance to NYSDEC Regional Water Engineer **and to the Bureau of Water Permits, 625 Broadway, Albany, N.Y. 12233-3505**, unless otherwise specified in this permit or in writing by the Department.

XII. MERCURY MINIMIZATION PROGRAM

1. **General** – Within 12 months of the effective date of this permit (**by 01/01/2011**), the permittee shall develop and immediately implement, and maintain a Mercury Minimization Program (MMP). The MMP is required because the 50 ng/L permit limit exceeds the state-wide calculated water quality based effluent limit (WQBEL) of 0.70 nanograms/liter (ng/L) for Total Mercury. The goal of the MMP will be to reduce mercury effluent levels in pursuit of the calculated WQBEL.

2. **MMP Elements** - The MMP shall be documented in narrative form and shall include any necessary drawings or maps. Other related documents already prepared for the facility may be used as part of the MMP and may be incorporated by reference. As a minimum, the MMP shall include an on-going program consisting of: periodic monitoring designed to quantify and, over time, track the reduction of mercury; an acceptable control strategy for reducing mercury discharges via cost-effective measures, which may include more stringent control of tributary waste streams; and submission of annual status reports.

A. Monitoring - All permit-related mercury monitoring shall be performed using EPA Method 1631 and shall be coordinated so that the results can be compared. All samples shall be grabs and use of EPA Method 1669 during sample collection is recommended. Minimum required monitoring is as follows:

i. Sewage Treatment Plant Influent & Effluent, and Type II SSO* Outfalls - Samples at each of these locations must be collected in accordance with the minimum frequency specified on the mercury permit limits page.

ii. Key Locations in the Collection System and Potential Significant Mercury Sources - The minimum monitoring frequency at these locations shall be semi-annual. Monitoring of properly treated dental facility discharges is not required.

iii. Hauled Wastes - Hauled wastes which may contain significant mercury levels must be periodically tested prior to acceptance to ensure compliance with pretreatment/local limits requirements.

iv. Additional monitoring must be completed as may be required elsewhere in this permit or upon Department request.

B. Control Strategy - An acceptable control strategy is required for reducing mercury discharges via cost-effective measures, including but not limited to more stringent control of industrial users and hauled wastes. The control strategy will become enforceable under this permit and shall contain the following minimum elements:

i. Pretreatment/Local Limits - The permittee shall evaluate and revise current requirements in pursuit of the water quality goal.

ii. Periodic Inspection - The permittee must inspect users as necessary to support the MMP. Each dental facility shall be inspected at least once every five years to verify compliance with the wastewater treatment and notification elements of 6NYCRR Part 374.4. Other mercury sources shall also be inspected once every five years. Alternatively, the permittee may develop an outreach program which informs these users of their responsibilities once every five years and is supported by a subset of site inspections. Monitoring shall be performed as required above.

iii. Systems with CSO & Type II SSO* Outfalls - Priority shall be given to controlling mercury sources upstream of CSOs and Type II SSOs through mercury reduction activities and/or controlled-release discharge. Effective control is necessary to avoid the need for the Department to establish mercury permit limits at these outfalls.

iv. A file shall be maintained containing all MMP documentation, including the dental forms required by 6NYCRR Part 374.4, which shall be available for review by DEC representatives.

C. Annual Status Report - An annual status report shall be submitted to the Regional Water Engineer and to the Bureau of Water Permits summarizing: (a) all MMP monitoring results for the previous year; (b) a list of known and potential mercury sources; (c) all action undertaken pursuant to the strategy during the previous year, (d) actions planned for the upcoming year, and (e) progress toward the goal. The first annual status report is due **01/01/2011** and follow-up reports are due annually thereafter. Note that the complete MMP documentation need not be submitted to the Department unless otherwise requested.

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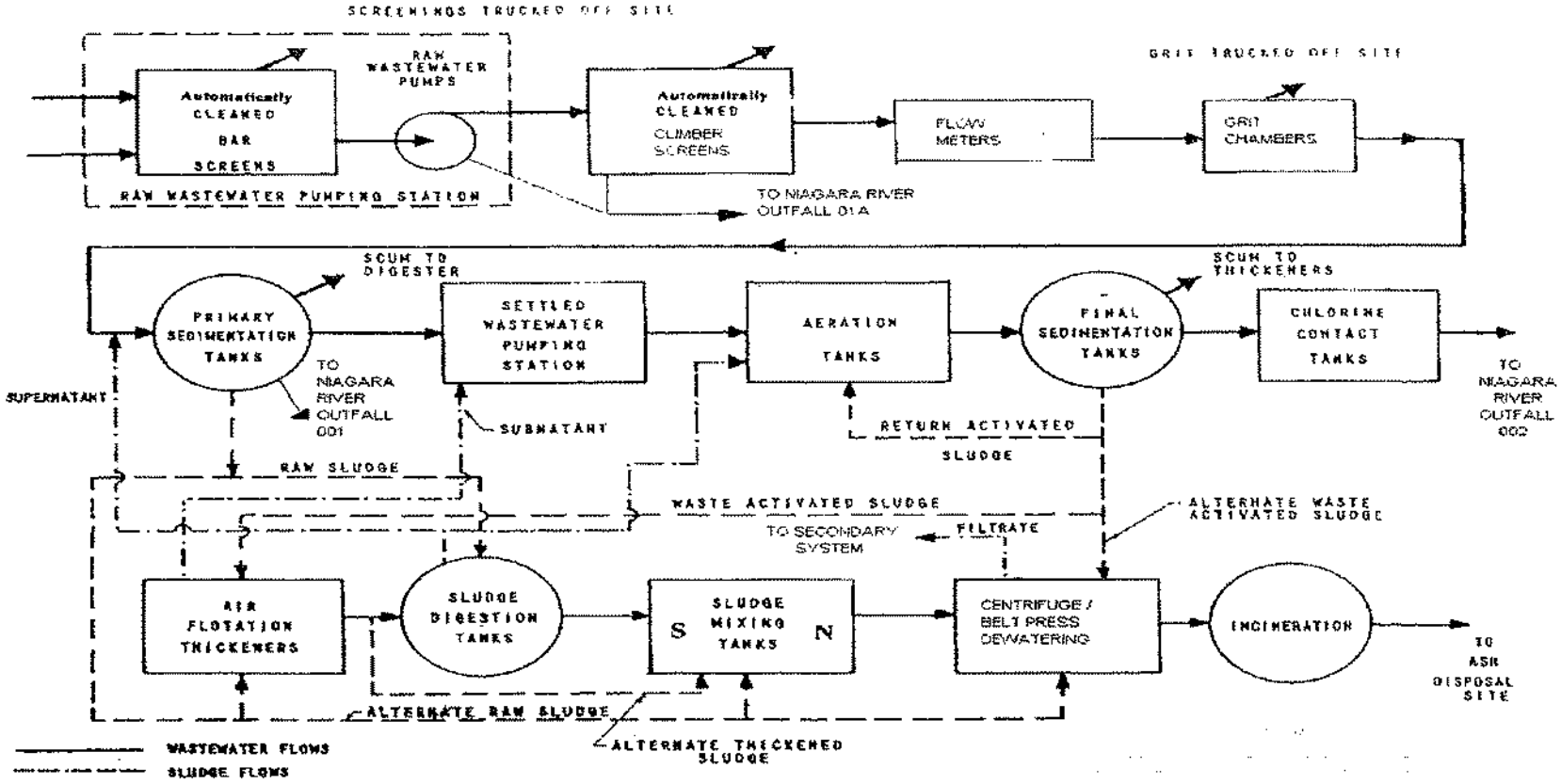
* Overflow Retention Facilities (ORF) or Peak Excess Flow Treatment Facilities (PEFTF). ORFs were designed, approved and constructed under an SSO abatement program. ORFs capture most sewer system flow surges and return them to the POTW for treatment. Under certain exceptionally high flow conditions, excess flow may be discharged.

3. **MMP Modification** - The MMP shall be modified whenever: (a)changes at the facility or within the collection system increase the potential for mercury discharges; (b) actual discharges exceed 50 ng/L; (c) a letter from the Department identifies inadequacies in the MMP; or, (d) pursuant to a permit modification.

MONITORING LOCATIONS

The permittee shall take samples and measurements, to comply with the monitoring requirements specified in this permit, at the location(s) specified below:



RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS

a) The permittee shall also refer to 6NYCRR Part 750 for additional information concerning monitoring and reporting requirements and conditions.

b) The monitoring information required by this permit shall be summarized, signed and retained for a period of three years from the date of the sampling for subsequent inspection by the Department or its designated agent. **Also, monitoring information required by this permit shall be summarized and reported by submitting;**

[X] (if box is checked) completed and signed Discharge Monitoring Report (DMR) forms for each 1 month reporting period to the locations specified below. Blank forms are available at the Department's Albany office listed below. The first reporting period begins on the effective date of this permit and the reports will be due no later than the 28th day of the month following the end of each reporting period.

[ ] (if box is checked) an annual report to the Regional Water Engineer at the address specified below. The annual report is due by February 1 and must summarize information for January to December of the previous year in a format acceptable to the Department.

[X] (if box is checked) a monthly "Wastewater Facility Operation Report..." (form 92-15-7) to the:
[X] Regional Water Engineer and/or [ ] County Health Department or Environmental Control Agency specified below

Send the **original** (top sheet) of each DMR page to:

Department of Environmental Conservation
Division of Water
Bureau of Watershed Compliance Programs
625 Broadway
Albany, New York 12233-3506

Phone: (518) 402-8177

Send the **first copy** (second sheet) of each DMR page to:

Department of Environmental Conservation
Regional Water Engineer, Region 9
270 Michigan Avenue
Buffalo, New York 14203-2999

Phone: 716-851-7070

Send an **additional copy** of each DMR page to:

c) Noncompliance with the provisions of this permit shall be reported to the Department as prescribed in 6NYCRR Part 750.

d) Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.

e) If the permittee monitors any pollutant more frequently than required by the permit, using test procedures approved under 40 CFR Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculations and recording of the data on the Discharge Monitoring Reports.

f) Calculation for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

g) Unless otherwise specified, all information recorded on the Discharge Monitoring Report shall be based upon measurements and sampling carried out during the most recently completed reporting period.

h) Any laboratory test or sample analysis required by this permit for which the State Commissioner of Health issues certificates of approval pursuant to section five hundred two of the Public Health Law shall be conducted by a laboratory which has been issued a certificate of approval. Inquiries regarding laboratory certification should be sent to the Environmental Laboratory Accreditation Program, New York State Health Department Center for Laboratories and Research, Division of Environmental Sciences, The Nelson A. Rockefeller Empire State Plaza, Albany, New York 12201.

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 2

IN THE MATTER OF:

Buffalo Sewer Authority
1038 City Hall
Buffalo, New York 14202-3310

SPDES Permit No. NY0028410

Respondent

Amended Administrative Order for Compliance pursuant to Sections 308(a) and 309(a) of the Clean Water Act, 33 U.S.C. §§ 1318(a) and 1319(a).

AMENDED

ADMINISTRATIVE ORDER

CWA-02-2014-3033

(Amends CWA-02-2012-3024)

This Amended Administrative Order CWA-02-2014-3033 amends Administrative Order CWA-02-2012-3024 to include: developments in the enforcement action since the March 9, 2012 effective date of Administrative Order CWA-02-2012-3024; updated General Provisions to reflect current practice; and to correct a date in the Findings of Fact and Findings of Violation. The Amendments to Administrative Order CWA-02-2012-3024 reflect the developments leading up to and including the approval of Buffalo Sewer Authority's Combined Sewer Overflow Long Term Control Plan and associated implementation schedule by the United States Environmental Protection Agency and the New York State Department of Environmental Conservation. Amended provisions can be found in Paragraphs 4, 11 and 13-20 of the Findings of Fact and Findings of Violation, Paragraphs 2.a., 2.f., 3, 3.a., 3.d.ii of the Ordered Provisions and Paragraphs 1-8 of the General Provisions.

STATUTORY AUTHORITY

The following Findings of Violation and Order for Compliance ("Order") are made and issued pursuant to Sections 308(a) and 309(a) of the Clean Water Act ("CWA"), 33 U.S.C. §§ 1318(a) and 1319(a). This Authority has been delegated by the Administrator of the United States Environmental Protection Agency ("EPA") to the Regional Administrator, EPA Region 2 and further delegated to the Director of the Division of Enforcement and Compliance Assistance, Region 2, EPA.

1. Section 301(a) of the CWA, 33 U.S.C. § 1311 (a), makes it unlawful for any person to discharge any pollutant from a point source to waters of the United States, except, inter alia, with the authorization of, and in compliance with, a National Pollutant Discharge Elimination System ("NPDES") permit issued pursuant to Section 402 of the CWA, 33 U.S.C. § 1342.

2. Section 402 of the CWA, 33 U.S.C. § 1342, authorizes the Administrator of EPA to issue a NPDES permit for the discharge of any pollutant, or combination of pollutants subject to certain requirements of the CWA and conditions which the Administrator determines are necessary. The New York State Department of Environmental Conservation ("NYSDEC") is the agency with the authority to administer the federal NPDES program in New York pursuant to Section 402 of the CWA, 33 U.S.C. § 1342. EPA maintains concurrent enforcement

authority with authorized states for violations of the CWA. Additionally, under the authority granted to the NYSDEC by the EPA under Section 402(b) of the CWA, 33 U.S.C. § 1342(b), a State Pollutant Discharge Elimination System ("SPDES") permit is required to be issued to facilities by the NYSDEC for the discharge of pollutants from said facilities from a point source to a navigable water of the United States.

3. Section 308 of the Act, 33 U.S.C. § 1318, provides, in relevant part, that the Administrator of EPA may require the owner or operator of any point source to, among other things: establish and maintain such records; make such reports; install, use and monitor such equipment; sample such effluents; and provide such other information as may reasonably be required in order to carry out Section 402 of the Act, 33 U.S.C. § 1342.

4. "Person" is defined by Section 502(5) of the CWA, 33 U.S.C. § 1362(5), to include an individual, corporation, partnership, association or municipality.

5. "Municipality" is defined by Section 502(4) of the CWA, 33 U.S.C. § 1362(4), to include among other things, a city, town, borough, county, parish, district, associations, or other public body created by or pursuant to State law and having jurisdiction over disposal of sewage, industrial wastes, or other wastes.

6. "Pollutant" is defined by Section 502(6) of the CWA, 33 U.S.C. § 1362(6), to include among other things, solid waste, dredged spoil, rock, sand, cellar dirt, sewage, sewage sludge and industrial, municipal and agricultural waste discharged into water.

7. "Point source" is defined by Section 502(14) of the CWA, 33 U.S.C. § 1362(14), to include any discernible, confined and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, from which pollutants are or may be discharged.

8. "Navigable waters" is defined by Section 502(7) of the CWA, 33 U.S.C. § 1362(7), to include the waters of the United States.

9. "Discharge of a pollutant" is defined by Section 502(12) of the CWA, 33 U.S.C. § 1362(12), to include any addition of any pollutant to navigable waters from any point source.

10. Section 402(q) of the CWA, 33 U.S.C. § 1342(q), provides that each permit, order, or decree issued pursuant to the chapter after December 21, 2000, for a discharge from a municipal combined storm and sanitary sewer shall conform to the Combined Sewer Overflow Policy ("CSO Policy") signed by the Administrator on April 11, 1994.

11. The CSO Policy states that "permittees with CSOs are responsible for developing and implementing long-term CSO control plans that will ultimately result in compliance with the requirements of the CWA."

12. Section 309(a) of the CWA, 33 U.S.C. § 1319(a), authorizes the Administrator to issue an order requiring compliance or commence a civil action when any person is found to be in violation of Section 301 of the CWA, 33 U.S.C. § 1311, or in violation of any permit condition or limitation in a permit issued under Section 402 of the CWA, 33 U.S.C. § 1342.

FINDINGS OF FACT AND FINDINGS OF VIOLATION

1. The Buffalo Sewer Authority ("BSA" or "Respondent"), is a public benefit municipal corporation, organized and existing under the laws of the State of New York, and located in Buffalo, New York. BSA has authority, control over and operates the sewer system within its boundaries, including, but not limited to the combined sewer system, the sanitary sewer system, and the related wastewater treatment plant.

2. BSA is a "person" and "municipality" within the meaning of Sections 502(5) and 502(4) of the CWA, 33 U.S.C. §§ 1362(5) and 1362(4).

3. BSA has discharged and continues to discharge "pollutants" within the meaning of Sections 502(6) and 502(12) of the CWA, 33 U.S.C. §§ 1362(6) and 1362(12), from the Buffalo wastewater treatment plant and sewer system through "point sources" within the meaning of Section 502(14) of the CWA, 33 U.S.C. § 1362(14) into the Niagara River, Black Rock Canal, Erie Basin, Buffalo River, Scajaquada Creek, Cazenovia Creek, and Cornelius Creek, each of which is a "navigable water" within the meaning of Section 502(7) of the CWA, 33 U.S.C. § 1362(7).

4. The NYSDEC, under the authority of Section 402(b) of the CWA, 33 U.S.C. § 1342(b), issued SPDES Permit No. NY0028410 (the "SPDES Permit") to BSA, with an effective date of July 1, 1999. The NYSDEC renewed the SPDES permit on February 3, 2004, on June 25, 2009, and again on December 31, 2013. It is scheduled to expire on June 30, 2019. The SPDES Permit authorizes BSA to discharge pollutants from a single wastewater treatment plant outfall and fifty-eight (58) combined sewer overflow structures ("CSO structures") at locations specified in the SPDES Permit, subject to certain limitations and conditions.

5. The Schedule of Compliance in the July 1, 1999 SPDES Permit provided in pertinent part as follows:

   "Development of Abatement Plan for Combined Sewer Overflow

   The permittee shall develop a combined sewer overflow abatement facility plan in accordance with the Phase I Long Term CSO Control Plan requirements specified in the USEPA Combined Sewer Overflow Policy (Federal Register Vo. 59, No. 75 4/19/94).

   This Abatement Plan shall contain all of the Long Term Plan elements specified in Section II C of the National CSO Policy, and further delineated in the USEPA document, "Combined Sewer Overflows, Guidance for Long-Term Control Plan" dated September, 1995. The permittee may choose either the "Presumption" or the "Demonstration" approach for the evaluation of alternatives.

   The Abatement Plan should integrate the pollutant reduction achievable by the implementation of the CSO Best Management Practices (BMPs) as required on pages 19-21 of this permit into the long term control plan. The Department will consider work or studies already completed or currently in progress for integration into the long term control plan.

   The permittee shall submit a completed CSO Abatement Facility Plan including a schedule of implementation to the Department.

13. On March 9, 2012, EPA, Region 2 issued an Administrative Order, Docket No. CWA-02-2012-3024 ("2012 Order"), to BSA, to address violations of the CWA (33 U.S.C. § 1251 et seq) and NYSDEC SPDES Permit number NY0028410. The 2012 Order requires that BSA update its CSO LTCP and that the Updated CSO LTCP include a schedule for the design, construction, and implementation of all control/treatment measures selected by BSA, to be completed as expeditiously as practicable, following any applicable environmental impact assessment review, pursuant to the New York State Environmental Quality Review Act, but in any event by no later than December 31, 2027.

14. In accordance with the 2012 Order, BSA submitted an Updated CSO LTCP, dated April 30, 2012, to the EPA and the NYSDEC for review and approval. Pursuant to "Ordered Provisions," Item 2.e of the 2012 Order, based on a joint review of the Updated CSO LTCP, the EPA and the NYSDEC declined to approve the Updated CSO LTCP and provided comments to BSA in a letter dated December 6, 2012.

15. The EPA and the NYSDEC met with BSA on February 12, 2013 to discuss the EPA's and the NYSDEC's comments. BSA followed up with a letter dated March 1, 2013 which, among other things, specified that BSA would submit a No Feasible Alternatives ("NFA") analysis and submit its Green Infrastructure ("GI") Master Plan to the Agencies by August 2, 2013, and would meet with the Agencies on or about August 15, 2013 to discuss those submittals.

16. Technical representatives of the EPA and the NYSDEC met with BSA to specifically discuss BSA's GI Master Plan on August 20, 2013. BSA followed up by providing the EPA and the NYSDEC with further information on its GI Master Plan on August 28, 2013. The EPA and the NYSDEC determined that an analogous technical meeting to discuss BSA's NFA analysis was not needed and indicated this to BSA in an email transmission dated September 11, 2013.

17. In a letter dated October 23, 2013 from EPA to BSA, EPA provided BSA with final written comments on BSA's Updated CSO LTCP. BSA was given until January 10, 2014 to submit its final revised CSO LTCP to EPA and NYSDEC. EPA's letter dated October 23, 2014 required that BSA provide a detailed implementation schedule as part of its final revised CSO LTCP and, based partly on work to be completed at the BSA wastewater treatment plant which was not originally contemplated, allowed a twenty year implementation schedule.

18. On January 10, 2014, BSA submitted its final revised CSO LTCP to EPA and to NYSDEC for review and approval. The final revised CSO LTCP includes a twenty year schedule.

19. In a letter dated March 18, 2014, EPA and NYSDEC approved BSA's final revised CSO LTCP. The approved CSO LTCP includes a twenty year implementation schedule, which is beyond the final compliance date of December 31, 2027, required by the EPA's 2012 Order.

20. Therefore, based on the above, EPA is issuing Amended Administrative Order, Docket No. CWA-02-2014-3033, to incorporate a twenty year implementation schedule and a final compliance date of March 18, 2034.

ORDERED PROVISIONS

Based on the Findings of Fact and Findings of Violation set forth above, and pursuant to the authority of Sections 308(a) and 309(a) of the CWA, 33 U.S.C. §§ 1318(a) and 1319(a), and in accordance with Section 402(q) of the CWA, 33 U.S.C. § 1342 (q), it is hereby ORDERED that:

1. Immediately upon receipt of the original copies of this Order, a responsible official of BSA shall complete and sign the acknowledgment of receipt of one of the originals of the Order and return said original to the Chief, Compliance Section, Water Compliance Branch, Division of Enforcement and Compliance Assistance, in the enclosed envelope to the address listed below.

2. Development of Updated Long Term Control Plan: BSA shall revise and implement an approved Updated LTCP consistent with the requirements of the CSO Policy and applicable State law and regulation. The Updated LTCP shall provide for the construction and implementation of all wastewater treatment plant ("WWTP") and sewer system improvements and other measures necessary to ensure that: (i) CSO discharges from all CSO discharge outfalls comply with the technology-based and water quality-based requirements of the CWA, the CSO Control Policy and state law and regulation; and (ii) bypasses at the WWTP are in compliance with the bypass conditions in 40 C.F.R. § 122.41(m), 327 IAC 5- 2-8(11), and shall demonstrate that there are no feasible alternatives to the remaining bypasses, in accordance with Section II.C.7 of the CSO Control Policy.
   a. By no later than April 30, 2012, BSA shall submit to EPA and NYSDEC an Updated LTCP. The schedule included in the Updated LTCP shall require the design, construction, and implementation of all control/treatment measures selected by BSA as expeditiously as practicable, following any applicable environmental impact assessment review pursuant to the New York State Environmental Quality Review Act ("SEQR review"), but in any event by no later than March 18, 2034.
   b. The Updated LTCP shall include, at a minimum:
      i. An update of the system characterization information, receiving water characterization information, existing conditions information, CSO control objectives, and any other information presented in the 2004 LTCP that is no longer current;
      ii. BSA's previous screening and subsequent evaluation of individual CSO control technologies and site-specific CSO controls. The Updated LTCP shall: (1) reassess the results of that original evaluation in light of the applicability of recreation-protective bacteria standards in BSA's receiving waters; (2) include, as appropriate, new technologies and controls (such as green infrastructure ("GI") and bio-ballasted flocculation treatment) not considered in the 2004 LTCP; and (3) in particular, carry out a new evaluation of a range of updated system-wide alternatives. Together, BSA's prior and updated system-wide alternatives evaluation shall include a sufficiently wide range of alternatives for eliminating, reducing, or treating CSO discharges, and for eliminating or reducing bypass discharges (except as permitted in the bypass conditions in 40 C.F.R. § 122.41(m) and 327 IAC 5-2-8(11)). The updated evaluation shall consider the costs and effectiveness (in terms of reduction in number of overflow events, overflow volume reduction, pollutant loading reductions, water quality improvements, etc.) predicted to result from implementation of each of the updated system-wide alternatives.

iii. In evaluating the relative performance of the updated system-wide alternatives and in selecting a preferred alternative, BSA shall give the highest priority to controlling overflows to sensitive areas as required under the CSO Control Policy, at section II.C.3.

iv. BSA's Updated LTCP shall include past and current alternative evaluation efforts that together include at a minimum: (1) taking no-action; (2) complete sewer separation (3) partial separation of various portions of the combined sewer system; (4) installation of various sizes of storage or equalization basins at the Buffalo Sewer Authority WWTP and/or in the sewer system; (5) construction of new secondary or advanced wastewater treatment plants; (6) construction of increased treatment capacities at the existing facilities; (7) construction of additional facilities (such as high rate treatment or ballasted flocculation facilities or its equivalent) for providing primary treatment or better than primary treatment of discharges from CSO discharge outfall structures; (8) construction of new intercepting sewers from the sewer system to the facilities; (9) construction of facilities for providing disinfection (and dechlorination, if necessary) of CSO discharges; (10) construction of facilities for removing floatables from CSO discharges; (11) construction of relief sewers; (12) relocation of CSO discharge outfall structures; (13) implementation of pretreatment measures to reduce flows and/or pollutants discharged into the sewer system from industrial users; (14) consideration of the use of GI where feasible, and (15) construction and/or implementation of combinations of these alternatives. These evaluations shall be carried out in accordance with Chapter 3 of EPA's "Combined Sewer Overflows Guidance for Long-Term Control Plan."

v. The Updated LTCP shall describe BSA's prior technology screening assessments and shall include, at a minimum, BSA's evaluation of the technical feasibility and applicability of each alternative or combination of alternatives at each CSO discharge outfall or grouping of CSO discharge outfalls. Where necessary, BSA shall update said assessments in light of the applicability of recreation-protective bacteria standards in BSA's receiving waters.

vi. BSA's updated evaluation of system-wide alternatives shall include:

1. An evaluation of a range of "sizes" of each updated system-wide alternative that will, for the typical year achieve an average volume of wet weather percent capture from 75 to 100 percent and reduce the average number of untreated CSO Discharge events to 0, 1-3, 4-7 and 8-12 per year. The updated LTCP shall include a detailed description of the 12 month rainfall record that BSA has utilized in developing its Updated LTCP, and that BSA will utilize in implementing its Post Construction Monitoring Program. The Updated LTCP shall describe in detail BSA's analysis of its available long term rainfall record, its basis for selecting its "typical year," and, in the event that BSA selects a "modified year" as its "typical year," shall discuss in detail all modifications made to the actual rainfall record to arrive at the "modified" rainfall record. The updated LTCP shall include a detailed tabular summary of the "modified" rainfall record, such that it is clear exactly what rainfall record shall be used in implementing the PCMP;

2. A determination of the estimated "project costs," as that term is described on pages 3-49 through 3-51 of the EPA's "Combined Sewer Overflows Guidance for Long-Term Control Plan," for each size of each updated system-wide alternative. The determination of the estimated "project costs" shall include: (a) "capital costs," "annual operation and maintenance costs," and "life cycle costs," as those terms are described on pages 3-49 through 3-51 of EPA's "Combined Sewer Overflows Guidance for Long-Term Control Plan;" and (b) an itemization of the "capital costs" and "annual operation and maintenance costs" used to determine the total "project costs" for each separate component of each alternative or combination of alternatives; and

3. An evaluation, using a validated collection system model, of the expected reduction in number of CSO events, CSO discharge volume and pollutant discharge quantity from each CSO discharge point for each size of each updated system-wide alternative. The evaluation shall include, at a minimum, an analysis of the improvement in every pollutant of concern, which are: fecal coliform in all receiving waters, and DO/BOD/SOD in the Buffalo River, Scajaquada Creek, and the Black Rock Canal.

vii. For each system-wide alternative, BSA's assessment shall include an evaluation, using water quality models, of the expected water quality improvements in the receiving waters that will result from implementation of each updated system-wide alternative. The evaluation shall include, at a minimum, an analysis of the improvement in every pollutant of concern in that receiving water.

viii. For each updated system-wide alternative, BSA shall include a cost-performance analysis, such as a "knee of the curve" analysis, for each alternative or combination of alternatives that will allow for the comparison of the costs to: (1) the associated expected water quality improvements; (2) the reduction of CSO discharge and bypass discharge volume; (3) the reduction in CSO discharge and bypass discharge events; (4) the increase in percent wet weather capture; and/or (5) the reduction in pollutant loading from CSO discharge and bypass discharge events.

ix. The Updated LTCP shall include a financial capability analysis that complies with USEPA's "Combined Sewer Overflows – Guidance for Financial Capability Analysis and Schedule Development" February 1997).

x. The Updated LTCP shall include the selection of CSO control measures, including the construction of all sewer system and facility improvements necessary to ensure compliance with the technology-based and water quality-based requirements of the CWA, state law and regulation and BSA's SPDES permit. The Updated LTCP shall include the selection of bypass discharge control measures, so as to ensure that all remaining bypasses are in compliance with the bypass conditions in 40 C.F.R. § 122.41(m), 327 IAC 5- 2-8(11), and shall demonstrate that there are no feasible alternatives to the remaining bypasses, in accordance with Section II.C.7 of the CSO Control Policy.

xi. The Updated LTCP shall include an expeditious schedule for the design, construction, and implementation of all CSO control measures selected by BSA. If it is not possible for BSA to design and construct all measures simultaneously, the Updated LTCP shall include a phased schedule based on the relative

importance of each measure, with highest priority being given to eliminating discharges to sensitive areas and to those projects which most reduce the discharge of pollutants. The schedule shall specify critical construction milestones for each specific measure, including, at a minimum, dates for: (1) submission of applications for all permits required by law; (2) start of design; (3) commencement of construction; (4) completion of construction; (5) completion of construction; and (6) achievement of full operation.

c. The alternatives evaluated should include the use of GI wherever feasible to reduce CSO volumes and handle separated storm water. GI shall generally mean systems and practices that use or mimic natural processes to infiltrate, evapotranspire, and/or harvest storm water on or near the site where it is generated. GI applications and approaches that may be considered include, but are not limited to, green roofs, downspout disconnection, trees and tree boxes, rain gardens, vegetated swales, pocket wetlands, infiltration planters, vegetated median strips, permeable pavements, reforestation, and protection and enhancement of riparian buffers and floodplains. EPA and NYSDEC encourage BSA to utilize GI projects as appropriate to reduce or replace gray infrastructure projects included in the Updated LTCP provided that any GI project proposed is anticipated to provide substantially the same or greater level of control as the alternative gray infrastructure project. Should BSA rely on other entities to implement GI projects, BSA must have in place agreements as appropriate, to ensure proper operation and maintenance of the GI project. For any GI project submitted as part of the Updated LTCP, BSA shall submit to EPA and NYSDEC a detailed GI project proposal outlining each proposed project.

   i. The GI project proposal shall be consistent with this Administrative Order and shall at a minimum include the following for each project:

      1. Data on location, sizing, design, and the performance criteria expected to be achieved with the implementation of the GI project, utilizing the information and models that BSA used in developing the Updated LTCP, and any monitoring information used in formulating the proposal; along with a demonstration of the long term effectiveness and performance expected to be achieved with implementation of the project;
      2. A description of the work required to implement the GI project and a schedule for completion of this work and implementation of the project that is consistent with this Administrative Order and the date set forth herein in Paragraph 2(a) for completion of construction and full implementation of all remedial and control measures;
      3. A description of the proposed ownership of and access to the GI project, and should BSA rely on other entities to implement the GI project, BSA must explain what agreements will be necessary to ensure proper operation and maintenance of the GI project (i.e., permanent access, sufficient control over key aspects of the project), and how they will be enforced to ensure proper operation and maintenance of the GI project; and
      4. A description of any post-construction monitoring and modeling to be performed that is necessary to determine whether the performance criteria set forth, as noted above, will be met upon completion and implementation of the GI project.

ii. Upon review of BSA's GI project proposal, EPA and NYSDEC will comment, approve, disapprove, or approve in part, the proposal:

1. BSA shall implement each GI project approved by EPA and NYDEC in accordance with the provisions and schedule in the approved proposal;
2. If the GI project proposal is approved in part, BSA shall, upon written direction from EPA and NYSDEC, take all actions in the approved portion of the GI proposal that EPA and NYSDEC determine are technically severable from any disapproved portions. For the disapproved portions, BSA shall, within 90 Days, correct all deficiencies and resubmit the proposal for approval. If the resubmission is approved in whole or in part, BSA shall proceed in accordance with this subparagraph; or
3. If the GI project proposal is disapproved, EPA and NYSDEC's decision is final. For each project which is disapproved, BSA shall propose an alternative GI project or gray infrastructure project, or combined green and gray infrastructure project, within 90 days of the date of disapproval. In the event that BSA's alternative proposal is disapproved by EPA and NYSDEC due to the GI project component of the proposal, BSA shall propose an alternative gray infrastructure project within 90 days of the date of disapproval.

iii. In the event that BSA implements an approved GI project proposal that fails to meet the specified performance criteria set forth in the project proposal and Updated LTCP, BSA shall propose, within 180 days after submittal of the applicable post-construction monitoring report documenting said failure, an additional green or gray infrastructure project designed to achieve the performance criteria with a schedule for completion of this work and implementation of the project that is consistent with this Administrative Order and the date set forth herein in Paragraph 2(a) for completion of construction and full implementation of all remedial and control measures. In the alternative, where BSA has substantially met the performance criteria, BSA may, within sixty (60) days after its knowledge of a project's failure to meet the performance criteria, petition EPA and NYSDEC for a change in the performance criteria. After consideration of any such request by BSA, EPA and NYSDEC's decision will be final. In the event that EPA and NYSDEC disapprove of BSA's request for a change in the performance criteria, BSA shall, within 180 days after EPA and NYSDEC's disapproval, propose additional control measures designed to achieve the performance criteria with a schedule for completion of this work and implementation of the Project that is consistent with this Administrative Order and the date set forth herein in Paragraph 2(a) for completion of construction and full implementation of all remedial and control measures.

iv. BSA shall submit to EPA an update on its implementation of GI projects as part of the semi-annual reports due on March 1st and September 1st of each year.

d. If BSA seeks to replace any gray infrastructure projects provided in the Updated LTCP, BSA shall submit to EPA and NYSDEC a detailed GI project proposal outlining each proposed project consistent with the requirements of Paragraph 2(c).

e. EPA and NYSDEC may approve the Updated LTCP or decline to approve it and provide written comments. Within 120 days of receiving EPA's and NYSDEC's written comments, BSA shall modify the Updated LTCP consistent with EPA's and

NYSDEC's written comments, and resubmit the Updated LTCP to EPA and NYSDEC for final approval.

f. Upon receipt of EPA's and NYSDEC's final approval of the Updated LTCP (hereinafter "Approved CSO LTCP"), BSA shall implement the measures in the Approved CSO LTCP in accordance with the schedule in the Plan, including certain milestones of which listed in the Appendix, "BSA Approved CSO LTCP Implementation Schedule," and shall complete the implementation of its Approved CSO LTCP by not later than March 18, 2034.

3. Post Construction Monitoring Plan: Within one year of approval of the Updated LTCP, BSA shall submit to EPA and NYSDEC for approval, a work plan for conducting an ongoing study or series of studies ("Post-Construction Monitoring Plan") to help determine: (1) whether the Approved CSO LTCP measures, when completed, meet all performance criteria specified in the Approved CSO LTCP; (2) whether BSA's CSOs comply with the technology-based and water quality-based requirements of the CWA, state law, the CSO Control Policy, all applicable federal and state regulations, and its SPDES Permit, for all CSO-receiving waters; and (3) whether all remaining bypasses are in compliance with the bypass conditions in 40 C.F.R. § 122.41(m), 327 IAC 5- 2-8(11), and demonstrate that there are no feasible alternatives to the remaining bypasses, in accordance with Section II.C.7 of the CSO Control Policy. The Post-Construction Monitoring Plan shall be consistent with the guidance "Combined Sewer Overflows Guidance for Long-Term Control Plan."

a. The Post-Construction Monitoring Plan shall contain a schedule for performance of the study or series of studies at key points during the course of the implementation of the remedial measures, as well as after completion of the remedial measures, specified in the Approved CSO LTCP. The Post-Construction Monitoring Plan also shall indicate the years (at least biannually) in which data generated during implementation of the Post-Construction Monitoring Plan will be submitted in the reports in Paragraph 4 to EPA and NYSDEC.

b. EPA and NYSDEC may approve the Post-Construction Monitoring Plan or may decline to approve it and provide written comments. Within ninety (90) days of receiving EPA's and NYSDEC's comments, BSA shall alter the Post-Construction Monitoring Plan consistent with EPA's and NYSDEC's comments, and resubmit the Plan to EPA and NYSDEC for final approval.

c. Upon final approval of the Post Construction Monitoring Plan, BSA shall implement, in accordance with the schedule therein, the Post-Construction Monitoring Plan. If the results of the Post-Construction Monitoring Plan indicate areas of non-compliance, BSA shall, within 120 days, (unless a different period is specified) of being requested in writing to do so, submit to EPA and NYSDEC a Supplemental Compliance Plan which includes the actions that BSA will take to achieve compliance and a schedule for taking such actions. Upon approval by the EPA and NYSDEC, BSA shall implement the Supplemental Compliance Plan, in accordance with the schedule specified in the approved Plan.

d. Within one hundred twenty (120) days after completion and implementation of the Post-Construction Monitoring Plan, BSA shall submit a Final Post-Construction-Monitoring Report to EPA and NYSDEC, for review, comment and approval, that:

i. demonstrates that BSA performed the Post-Construction Monitoring Plan in accordance with the approved Plan and schedule set forth in the approved Post-Construction Monitoring Plan; and

ii. summarizes the data collected during Post-Construction Monitoring and analyzes whether the completed control measures have met and/or are meeting the performance criteria specified in the Approved CSO LTCP; whether BSA's CSOs comply with the requirements of the CWA, state law, the CSO Control Policy, all applicable federal and state regulations, and BSA's SPDES Permits; and whether all remaining bypasses are in compliance with the bypass conditions in 40 C.F.R. § 122.41(m), 327 IAC 5- 2-8(11), and demonstrate that there are no feasible alternatives to the remaining bypasses, in accordance with Section II.C.7 of the CSO Control Policy.

e. EPA and NYSDEC may approve the Final Post-Construction Monitoring Report or may decline to approve it and provide written comments. Within sixty (60) days of receiving EPA's and NYSDEC's comments, BSA shall alter the Final Post-Construction Monitoring Report consistent with EPA's and NYSDEC's comments, and resubmit the Report to EPA and NYSDEC for final approval. Approval of the Final Post-Construction Monitoring Report only constitutes EPA's and NYSDEC's approval that the report contains the information required by this Administrative Order; it does not mean that EPA and NYSDEC believe BSA has complied with any other requirement of this Administrative Order or federal or state law.

4. Reporting Requirements

a. Semi-Annual Status Reports. Upon the effective date of this Administrative Order, until EPA and NYSDEC's approval of the Final Post-Construction-Monitoring Report, BSA shall submit written Semi-Annual Status Reports to EPA and NYSDEC. These reports shall be submitted by no later than March 1st of each year (for the "reporting period" from July 1 through December 31 of the previous calendar year) and September 1st of each year (for the "reporting period" from January 1 through June 30 of the current calendar year). The Semi-Annual Status Reports may be provided either as paper documents or in electronic format, provided that the electronic format is compatible with EPA and NYSDEC software and is accompanied by a written certification on paper in accordance with "General Provisions" Paragraph 1. The written certification must be sent via certified or overnight mail. The frequency of reports, and the reporting period, may be amended upon written agreement from EPA and NYSDEC. In each written Semi-Annual Status Report, BSA shall provide, at a minimum, the following:

i. a statement setting forth (1) the deadlines and other terms that BSA has been required to meet since the date of the last statement; (2) whether and to what extent BSA has met those requirements; and (3) the reasons for any noncompliance (notification to EPA and NYSDEC of any anticipated delay shall not, by itself, excuse the delay);

ii. (1) a general description of the work completed within the prior reporting period; (2) to the extent known, a statement as to whether the work completed in that period meets applicable design criteria; (3) a projection of work to be performed during the next six-month period; (4) notification of any anticipated delays for the upcoming six month period of time; and (5) any changes in key personnel.

iii. If any public meetings were held, the report should include a copy of any advertisements placed for the meeting, any materials or handouts, formal meeting notes, and a summary of the meeting.

iv. BSA shall also submit, with each written status report, copies (to EPA only) of all monthly monitoring reports or other reports pertaining to CSOs and bypasses that BSA submitted to NYSDEC during the reporting period.

b. Semi-Annual Status Meetings. Representatives of EPA, NYSDEC and BSA shall conduct semi-annual meetings to discuss BSA's compliance status with the provisions of this Order. These meetings shall be scheduled during the months of March or April to discuss the previous reporting period, and September or October to discuss the previous reporting period. The meetings can be conducted telephonically if agreed in writing (including electronic correspondence) by all parties in advance. The frequency of such compliance meetings may be reduced upon written agreement (including electronic correspondence) from EPA and NYSDEC.

c. Annual Post Construction Monitoring Report. Upon the effective date of this Administrative Order, until EPA and NYSDEC's approval of the Final Post-Construction-Monitoring Report, BSA shall submit annually with its September 1st Semi-Annual Reports, an Annual Post Construction Monitoring Report containing information generated in accordance with the Post-Construction Monitoring Plan. The Annual Post Construction Monitoring report may be provided either as paper documents or in electronic format, provided that the electronic format is compatible with EPA and NYSDEC software and is accompanied by a written certification on paper in accordance with "General Provisions" Paragraph 1. The written certification must be sent via certified or overnight mail. The frequency of reports, and the reporting period, may be amended upon written agreement from EPA and NYSDEC.

d. Permits or Approvals. When it is necessary for BSA to obtain a federal, state, or local permit or approval or perform SEQR review, BSA shall submit timely and complete applications, or timely perform the SEQR review, and take all other actions necessary to obtain all such permits or approvals or to ensure compliance with SEQR.

GENERAL PROVISIONS

1. Any documents to be submitted by BSA pursuant to this Administrative Order shall be signed by an official of BSA or an authorized representative of BSA (see 40 C.F.R. § 122.2) and include the following certification:

> "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."

2. All notifications, reports, submissions and communications required by this Order shall be sent by certified mail or its equivalent to the following addresses:

Doughlas McKenna, Chief
Water Compliance Branch
Division of Enforcement and Compliance Assistance
United States Environmental Protection Agency, Region 2
290 Broadway, 20th Floor
New York, New York 10007-1866

Joseph DiMura, P.E.
Director, Bureau of Water Compliance Programs
Division of Water
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-3506

Regional Water Engineer
New York State Department of Environmental Conservation
Region 9
270 Michigan Avenue
Buffalo, New York 14203-2915

3. The Respondent shall have the opportunity, for a period of twenty (20) days from the effective date of this Order, to confer, regarding the Amendments to Administrative Order CWA-02-2012-3024, with the following designated Agency Representative:

Doughlas McKenna, Chief
Water Compliance Branch
Division of Enforcement and Compliance Assistance
United States Environmental Protection Agency, Region 2
290 Broadway, 20th Floor
New York, New York 10007-1866
(212) 637-4244

4. Respondent may seek federal judicial review of this Order pursuant to Chapter 7 of the Administrative Procedure Act, 5 U.S.C. §§ 701-706.

5. This Order does not constitute a waiver from compliance with, or a modification of, the effective terms and conditions of the CWA, its implementing regulations, or any applicable permit, which remain in full force and effect. Issuance of this Order shall not be deemed an election by EPA to forego any civil or criminal actions for penalties, fines, imprisonment, or other appropriate relief under the CWA.

6. Notice is hereby given that should EPA commence an action in a United States District Court for a violation of any Ordered Provision of this Order, Respondent may be subject to (1) civil penalties up to $37,500 per day for each day of violation, pursuant to Section 309(d) of the CWA, 33 U.S.C. § 13199d); and/or (2) injunctive relief, pursuant to Section 309(b) of the CWA, 33 U.S.C. § 1319(b), as imposed by the Court.

7. If any provision of this Order is held by a court of competent jurisdiction to be invalid, any surviving provisions shall remain in full force and effect.

8. Provisions of Administrative Order CWA-02-2012-3024, incorporated herein, continue to be effective as of March 9, 2012. The Amendments to Administrative Order CWA-02-2012-3024 contained in this Order CWA-02-2014-3033 shall become effective upon the date of execution by the Director, Division of Enforcement and Compliance Assistance.

Dated: APRIL 11, 2014 Signed: _____

Dore LaPosta, Director
Division of Enforcement and Compliance Assistance

APPENDIX

BSA Approved CSO LTCP Implementation Schedule

Project Name	Project Milestones/Deadlines
Phase I Projects (see Table 11-11)	
Bird/Lang RTC Projects	Construction Start and Completion Dates: 3/17/2014 – 9/2/2014 Operations/Optimization (RTC): 9/3/2014 – 9/3/15
Foundation Projects (see Table 11-11)	
Foundation 1 - Smith Street Storage	Engineering Start: 3/18/2014 Engineering Completion: 3/18/2015 Notice to Proceed3/18/2015 Substantial Completion: 3/18/2017
Foundation 2 - SPP Optimization (20 projects)	Engineering Start: 3/1/14 Engineering Completion: 3/18/2015[1] Notice to Proceed: 3/1/14 Substantial Completion: 3/18/2017[1]
Foundation 3 - Remaining RTC (14 sites)	Engineering Start: 3/18/2016 Engineering Completion: 3/18/2023[1] Notice to Proceed: 3/18/2017 Substantial Completion: 3/18/2024[1]
Foundation 4 - Hamburg Drain Optimizations	Engineering Start: 3/18/2015 Engineering Completion: 3/18/2017[1] Notice to Proceed: 3/18/2016 Substantial Completion: 3/18/2018[1]
Foundation 4 – Hamburg Drain Storage	Engineering Start: 3/18/2028 Engineering Completion: 3/18/2030 Notice to Proceed: 3/18/2030 Substantial Completion: 3/18/2032
Green Projects (see GI Master Plan)	
Green Pilot Projects – 267-acres of GI control	Engineering Start:3/1/14 Engineering Completion: 3/18/2016[2] Construction Completion Date: 3/18/2018[2] PCM Start and Completion Dates: 3/18/2016 – 3/18/2019[2] Construction of controls for at least 134 acres will have started by 9/18/2017
Green 2 – 410-acres of GI control	Engineering Start: 3/18/2019 Engineering Completion: 3/18/2023[2] Construction Completion Date: 3/18/2024[2] Construction of controls for at least 205 acres will have started by 3/18/2022[2]

Green 3 – 375-acres of GI control	Engineering Start: 3/18/2023 Engineering Completion: 3/18/2028[2] Construction Completion Date:3/18/2029[2] Construction of controls for at least 188 acres will have started by 9/18/2026[2]
Green 4 – 263-acres of GI control	Engineering Start: 3/18/2028 Engineering Completion: 3/18/2033[2] Construction Completion Date:3/18/2034[2] Construction of controls for at least 132 acres will have started by 9/18/2031[2]
WWTP	
WWTP Improvements Project – Alternative C2 (two consecutive projects)	Engineering Start: 3/18/2015 Engineering Completion: 3/18/2019[1] Notice to Proceed: 3/18/2017 Substantial Completion 3/18/2022[1]
Gray Projects (see Section 12.3)	
CSOs 014/15 – In-line storage and optimization	Construction Start: 3/18/14 Substantial Completion: 3/18/15
CSO 013 – Satellite storage, conveyance, FM & PS	Engineering Start: 3/18/2019 Engineering Completion: 3/18/2020 Notice to Proceed: : 3/18/2020 Substantial Completion: 3/18/2022
North Relief – Interceptor	Engineering Start: 3/18/2019 Engineering Completion: 3/18/2022 Notice to Proceed: 3/18/2022 Substantial Completion: 3/18/2026
CSOs 010, 008/010, 061, 004 – Underflow capacity upsizing	Engineering Start: 3/18/2021 Engineering Completion: 3/18/2023 Notice to Proceed: 3/18/2023 Substantial Completion: 3/18/2024
SPP 337 (CSO 053) – Satellite storage, conveyance, FM & PS	Engineering Start: 3/18/2023 Engineering Completion: 3/18/2025 Notice to Proceed: 3/18/2025 Substantial Completion: 3/18/2027
SPP 336 a+b (CSO 053) – Satellite storage, conveyance, FM & PS	Engineering Start: 3/18/2024 Engineering Completion: 3/18/2026 Notice to Proceed: 3/18/2026 Substantial Completion: 3/18/2029

Jefferson & Florida (SPP 170B – CSO 053) – Satellite storage, conveyance and FM	Engineering Start: 3/18/2025 Engineering Completion: 3/18/2027 Notice to Proceed: 3/18/2027 Substantial Completion: 3/18/2030
CSO 055 – Satellite storage, conveyance, FM & PS	Engineering Start: 3/18/2027 Engineering Completion: 3/18/2030 Notice to Proceed: 3/18/2030 Substantial Completion: 3/18/2034
CSOs 028/044/047 - Satellite storage, conveyance, FM & PS (storage at Tops from CSO 47 west)	Engineering Start: 3/18/2028 Engineering Completion: 3/18/2031 Notice to Proceed: 3/18/2031 Substantial Completion: 3/18/2034
CSO 052 – Satellite storage, conveyance, FM & PS	Engineering Start: 3/18/2030 Engineering Completion: 3/18/2032 Notice to Proceed: 3/18/2032 Substantial Completion: 3/18/2034
CSO 064 – Satellite storage, conveyance, FM & PS	Engineering Start: 3/18/2030 Engineering Completion: 3/18/2032 Notice to Proceed: 3/18/2032 Substantial Completion: 3/18/2034
Post Construction Monitoring	
Submit PCM Plan	3/18/2015
Implement PCM	Per approved PCM Plan

NOTES:

References specified in the Implementation Schedule above refer to the Approved BSA CSO LTCP, including the Green Infrastructure Master Plan, approved by EPA and NYSDEC on March 18, 2014.

Engineering timeframes (from start to completion) include planning, design, permitting/SEQRA/Public Notice, regulatory review and approval, land/easement acquisition, funding, and bidding/award.

Substantial Completion is defined as the time at which the Project has progressed to the point where, in the opinion of Engineer, the Work is sufficiently complete, in accordance with the Contract Documents, so that the Project can be utilized for the purposes for which it is intended.

(1) Project consists of multiple smaller projects that will overlap in engineering and construction. Specific engineering completion and construction dates for each project site will determined and submitted to the Agencies as they are developed. In any case, all work associated with these blocks of projects will be completed within the overall timeframe shown.

(2) GI projects will consist of multiple smaller projects including building demolitions that will overlap in engineering and construction during a given GI phase. For each phase, the BSA will achieve the start of construction for at least 50 percent of the required acreage by the mid-point of each phase.

BUFFALO SEWER AUTHORITY

ARCADIS

CAPITAL PROJECTS PROGRAM MANAGEMENT | BSA CONTRACT NO. 82000075 | PRELIMINARY ENGINEERING REPORT

CSO053_5.2 Edison Martha Offline Storage (OLS) Tank

Prepared by ARCADIS of New York, Inc.

June 14, 2024, REVISED FEBRUARY 2025

TYLin | Greeley and Hansen Water Solutions

BSA Capital Projects Program Management Team:

Arcadis | JM Davidson Engineering | Hallmark Planning & Development | e3 Communications | Watts Architecture & Engineering | CORE Environmental | Atlantic Testing Laboratories | Frandina Engineering and Land Surveying | KHEOPS Architecture, Engineering and Survey | International Institute of Buffalo | Jade Stone Engineering | NASCO Construction Services | JKMuir

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Executive Summary

The Buffalo Sewer Authority (Authority) provides wastewater conveyance and treatment services to approximately 550,000 residents and businesses located in the City of Buffalo and surrounding communities. The Authority operates the Bird Island Wastewater Treatment Facility (WWTF), originally built in 1935, and later expanded in the late 1970s to include secondary treatment capabilities. The WWTF treats wastewater collected from the service area and discharges the treated effluent to the Niagara River under authority of the Clean Water Act and the State Pollutant Discharge Elimination System Permitting (SPDES) process. The Authority owns, operates, and maintains the collection system that serves the City of Buffalo service area and the interceptor system, interceptors and pump stations, that conveys flow from the surrounding communities and the City residents to the WWTF.

In accordance with an Administrative Order (AO) from the New York State Department of Environmental Conservation (DEC), the United States Environmental Protection Agency (US EPA), and the United States Department of Justice (DOJ), the Authority implemented a Combined Sewer Overflow (CSO) Long Term Control Plan (LTCP) approved on March 18, 2014. This LTCP aims to minimize CSO activations in the existing collection system and mitigate flow surges at the WWTF.

The LTCP's compliance criteria involve limiting the number of CSO activations per typical precipitation year for the Sewer Patrol Point's (SPP's) receiving waterbody, as determined by the Authority's Combined Sewer System (CSS) hydraulic model. Following the LTCP's approval in 2014, the hydraulic model was updated and recalibrated to reflect the current conditions of the collection system.

The updated model indicated that some initially planned projects were no longer viable, while others could be further optimized to meet the established targets. The Authority undertook an optimization process that defined many projects, and selected alternatives were summarized in the "LTCP Optimization Selected Alternative" Technical Memorandum (Memo) dated January 31, 2023, which constitutes the revised LTCP now named Queen City Clean Waters.

This report covers the Edison Martha Off-line Storage (OLS) Facility, one of the proposed projects under the Selected Alternative Memo within the collection system tributary to CSO-053 discharging to Scajaquada Creek.

This project consists of constructing a 2.61 million gallon (MG) buried concrete tank, associated diversion structure, and tank inlet and outlet sewers near the northwest corner of Edison Avenue and Kensington Expressway for the purpose of relieving the Edison Avenue Storm Relief Sewer, the downstream Kensington Expressway Sewer at Edison Avenue and the Scajaquada Tunnel Interceptor during wet weather events to reduce CSO discharges to the Scajaquada Tunnel from SPP340. The tank will be a nominal 130 feet wide by 336 feet long and be constructed on land in what is the Roosevelt Playground. Flows in excess of the reported 0.4 million gallon per day (mgd) dry weather flow in the Edison Avenue Storm Relief Sewer will flow over a 20-foot-long weir at the proposed Diversion Structure to be constructed around the existing sewer in the Edison Avenue Right of Way, and be conveyed via a 48-inch diameter Reinforced Concrete Pipe (RCP) to the tank. The storage tank will dewater via gravity through a 24-inch RCP pipe to the manhole where the Edison Avenue Storm Relief Sewer joins the Kensington Expressway Sewer at Edison Avenue, when there is available capacity in the downstream sewer. The tank will have inlet and outlet gates that will normally be open and be controlled from real time level signals. The outlet gate will be controlled by the level in the Hazelwood in-line-storage (ILS) facility downstream, whereas the inlet gate will be controlled by the tank level in the Edison Martha tank itself. The buried tank

will include semi-automated cleaning with a tipping bucket system and access will be provided to the tank for maintenance and for additional cleaning should it be required.

This project, together with multiple other projects in the tributary area of Scajaquada Tunnel Interceptor, have been selected to reduce typical year predicted activations at CSO-053 from 37 following the Phase 1 project implementation, to the target maximum number of four. If this project is not completed as scheduled, the Authority will be in violation of the AO.

An opinion of the Total Project Cost and a proposed implementation schedule are provided below.

Table ES-1: Opinion of Probable Total Project Cost

Project	Opinion of Total Project Cost
CSO053_5.2 Edison Martha Offline Storage (OLS) Tank	$84,500,000

Table ES-2: Anticipated Project Schedule

Description	Anticipated Completion Date
Design Completion	Winter 2026
Regulatory Review	Spring 2027
Bidding	Spring 2027
Construction Start Date	Summer 2027
Construction End Date	Spring 2033

SECTION 1 PROJECT BACKGROUND AND HISTORY

1.1 Site Information

1.1.1 Location

The site of the proposed project, known as the Edison Martha OLS, is located at 430 Edison Avenue, on what is otherwise known as the eastern portion of Roosevelt Playground situated just north of the Kensington Expressway and west of Edison Avenue in the northeast corner of the city. The site is behind the current Charter School of Inquiry, across from Gail and Martha Avenues. Easements for inlet and discharge sewer construction from the Edison Avenue Storm Relief Sewer to the storage tank and back will be sought from the charter school property owner.

Figure 1-1: Project Site Location

The site is located within the Scajaquada District of Authority's collection system, and the Edison Avenue Storm Relief Sewer is tributary to the regulator at Sewer Patrol Point (SPP)340 on the Scajaquada Tunnel Interceptor. During wet weather events, when the Scajaquada Tunnel Interceptor or the intercepting sewers it discharges into lack adequate hydraulic capacity to convey the flow, the interceptor can release the excess flow at SPP340 into the Scajaquada Drain. The Scajaquada Drain is a nearly four-mile channelized section of Scajaquada Creek that runs through the east side of the City of Buffalo. CSO-053 is where the Scajaquada Drain daylights near Forest Lawn Cemetery and once again becomes Scajaquada Creek.

1.1.2 Geologic Conditions

United State Geological Survey (USGS) maps place the proposed site at an elevation of between 665 and 675 feet above sea level. A copy of the USGS, Buffalo NE Quadrangle map for New York - Erie County can be found in Appendix A.

According to United States Department of Agriculture's (USDA's) Web soil Survey, the site soils are classified as: UrA- Urban land, Lima Complex with 1 to 6 percent slopes with a composition of roughly 60% Urban with 30% Lima and the remaining 10% minor components. The depth to "restrictive features" is listed as more than 80 inches with the typical depth to water table noted as 18-24 inches. The soils above the "restrictive feature" are expected to consist of primarily loam for the upper 16 inches with gravelly loam between that and the "restrictive layer". Refer to Appendix B for a copy of the Custom Soil Resource Report for the project site.

The 1965 Record Drawings for the Edison Avenue Storm Relief Sewer, notes "rock soundings" found along the path of the sewer at depths between 7 and 11 feet below grade which seems to confirm the information from USGS.

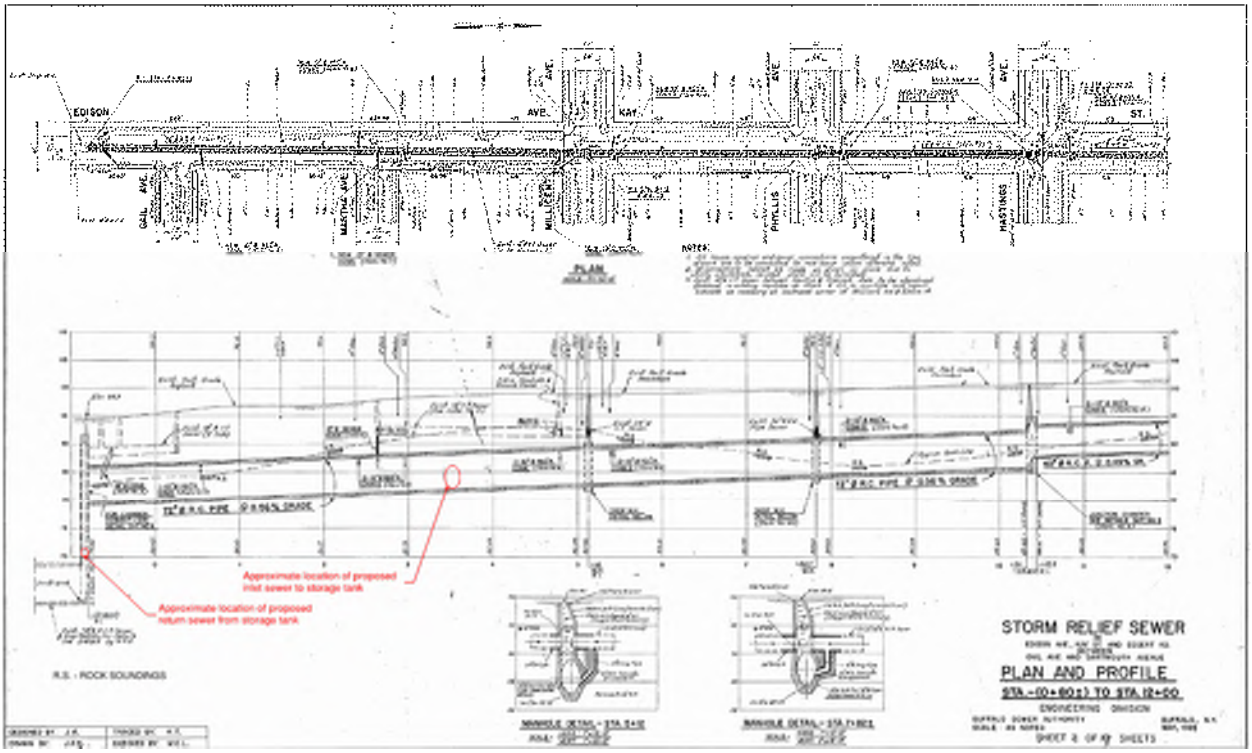


Figure 1-2: Edison Avenue Storm Relief Sewer Sheet 2 of 10

Per Figure 2-2, Bedrock Geology, of the 2014 LTCP, which can be found in Appendix C, the predominant form of bedrock found in the project area is Onondaga Limestone, which is what the "restrictive layer" is likely to consist of.

1.1.3 Impacted Environmental Resources

The United States Fish and Wildlife Service's Information for Planning and Conservation (IPaC) database was researched for the project location. The preliminary results from the IPaC are summarized below, with the full report available in Appendix D.

The database indicates that several endangered species may occur in the project area: the Northern Long-eared Bat, listed as an endangered species; the Salamander Mussel, listed as a proposed endangered species; and the Monarch Butterfly, listed as a candidate for threatened species. However, no critical habitat for these species is found in the project area, making it unlikely that the proposed project will impact these species.

Additionally, the database indicates that there are likely 23 migratory birds present in the project area. A probability of presence summary will be consulted prior to scheduling construction activities to avoid or minimize impacts on migratory birds.

Regarding U.S. Fish and Wildlife Service (USFWS) facilities, there are no refuge lands or fish hatcheries in the project location. Furthermore, the project location does not intersect any wetlands mapped by the National Wetlands Inventory (NWI).

The sewer system, of which the Edison Ave. Storm Relief Sewer is a part, discharges into two primary water bodies: Scajaquada Creek (PWL ID: 0101-0023) and the Niagara River (PWL ID: 0101-0006). According to the latest water quality assessment by NYSDEC, both water bodies are classified as "impaired" regarding fish consumption due to contaminants that degrade the habitat. Scajaquada Creek is also rated as "impaired" for both primary and secondary recreational activities, while the Niagara River is noted as a "threatened" water supply system with "stressed" aquatic life. The DEC reports that the high density of sanitary wastewater discharges significantly increases vulnerability to various contaminants, including fecal coliforms.

In addition, the Scajaquada Drain (the channelized portion of Scajaquada Creek) travels beneath the eastern half of the City of Buffalo for nearly four miles in a buried tunnel. This covered area is classified as a R4SBC wetland. The NWI Survey defines this wetland as:

- **System Riverine (R):** The Riverine System includes all wetlands and deepwater habitats contained within a channel, with two exceptions: (1) wetlands dominated by trees, shrubs, persistent emergent, emergent mosses, or lichens, and (2) habitats with water containing ocean-derived salts of 0.5 ppt or greater. A channel is an open conduit either naturally or artificially created which periodically or continuously contains moving water, or which forms a connecting link between two bodies of standing water.
- **Subsystem Intermittent (4):** This Subsystem includes channels that contain flowing water only part of the year. When the water is not flowing, it may remain in isolated pools or surface water may be absent.
- **Class Streambed (SB):** Includes all wetlands contained within the Intermittent Subsystem of the Riverine System and all channels of the Estuarine System or of the Tidal Subsystem of the Riverine System that are completely dewatered at low tide.
- **Water Regime Seasonally Flooded (C):** Surface water is present for extended periods especially early in the growing season, but is absent by the end of the growing season in most years. The water table after flooding ceases is variable, extending from saturated to the surface to a water table well below the ground surface.

1.1.4 Flood Plain Considerations

The Federal Emergency Management Association (FEMA) Flood Insurance Risk Map places the proposed project site in "Zone X", an area of minimal Flood Hazard. Refer to Appendix E for the National Flood Hazard FIRMette for proposed project site.

1.1.5 Project Impacts to Potential Environmental Justice Areas (PEJAs) and/or Disadvantaged Communities (DAC)

The project site and the majority of the area that the Scajaquada Creek flows through from the eastern border of the City of Buffalo to its convergence with the Niagara River to the west are found on the NYSDEC map of Potential Environmental Justice Areas (PEJAs) as is nearly the entire area of the City of Buffalo bordering the Niagara River. The Project site is located within census block group 15000US360290067013, an area having a total population of 1,625, over 98 percent of which is minority, and twenty percent of which whose income falls below the poverty level. CSO-053 is located in census block group 15000US360290063023, an area having a total population of 557, over 58 percent of which is minority, and nearly 37 percent of which whose income falls below the poverty level.

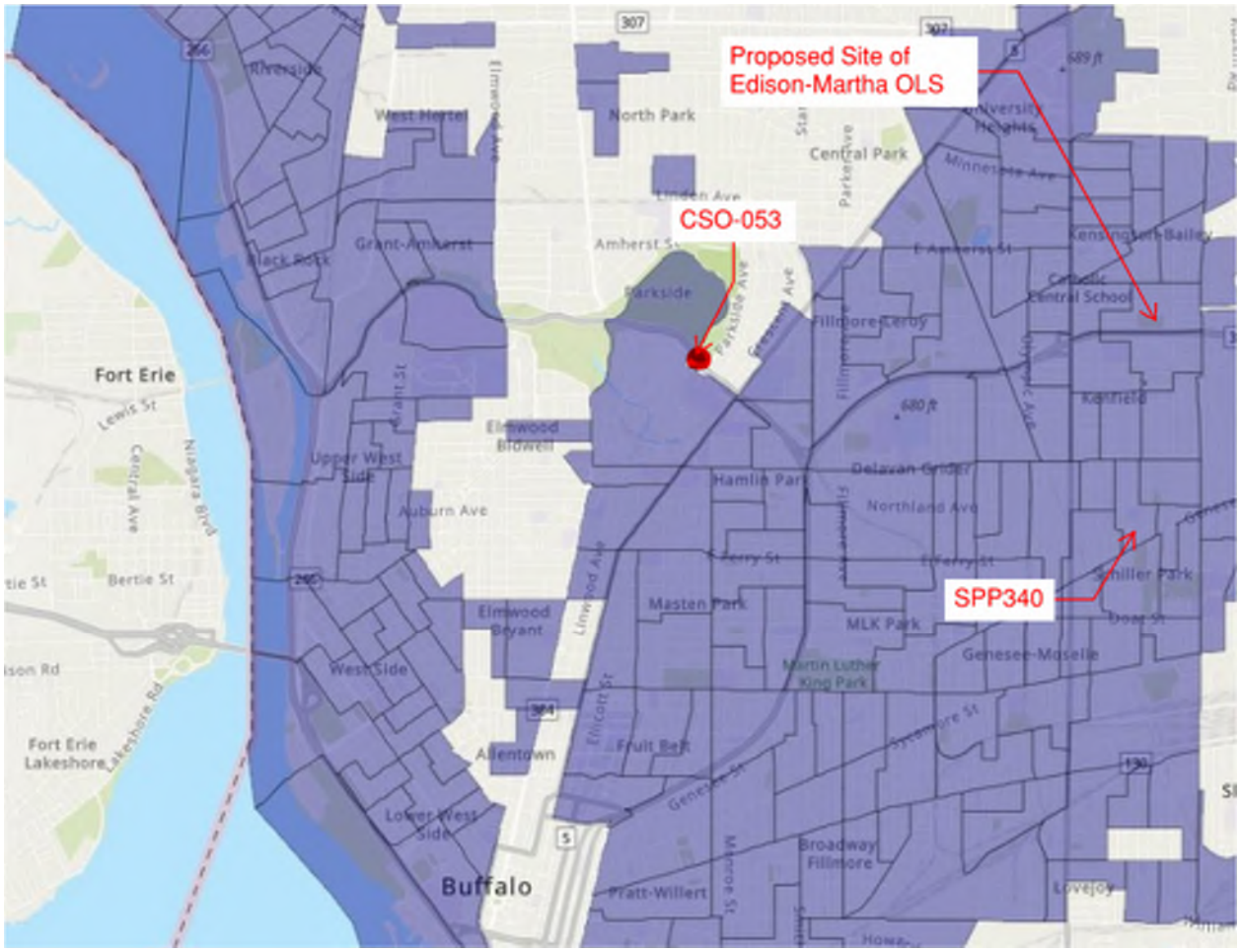


Figure 1-3: Potential Environmental Justice Areas, City of Buffalo

The project may offer some relief from sewage backups and basement flooding to the area upstream of the proposed project due to increased storage capacity in the sewer. Fish and other wildlife dwelling in or traversing through the Scajaquada Drain will benefit from improved water quality from SPP340, where the

Scajaquada Tunnel Interceptor overflows into Scajaquada Drain and downstream. However much of the environmental impacts of the project are not expected to be realized until the creek daylights in Forest Lawn Cemetery downstream of CSO-053 and flows through Delaware Park, eventually flowing into the Niagara River, Lake Ontario, and downstream. The water quality improvements that are expected to result from the project will have a positive impact on the recreational activities such as fishing and boating along the downstream reaches of Scajaquada Creek and the Niagara River. In addition to the PEJA areas of the City of Buffalo, there are several other areas with the PEJA designation downstream of the Scajaquada's confluence with the Niagara River that may also see environmental benefits such as positive impact on recreational activities as well as impact on their drinking water supplies from this project including the waterfront areas of: the City of Niagara Falls, and the Town of Tonawanda, NY.

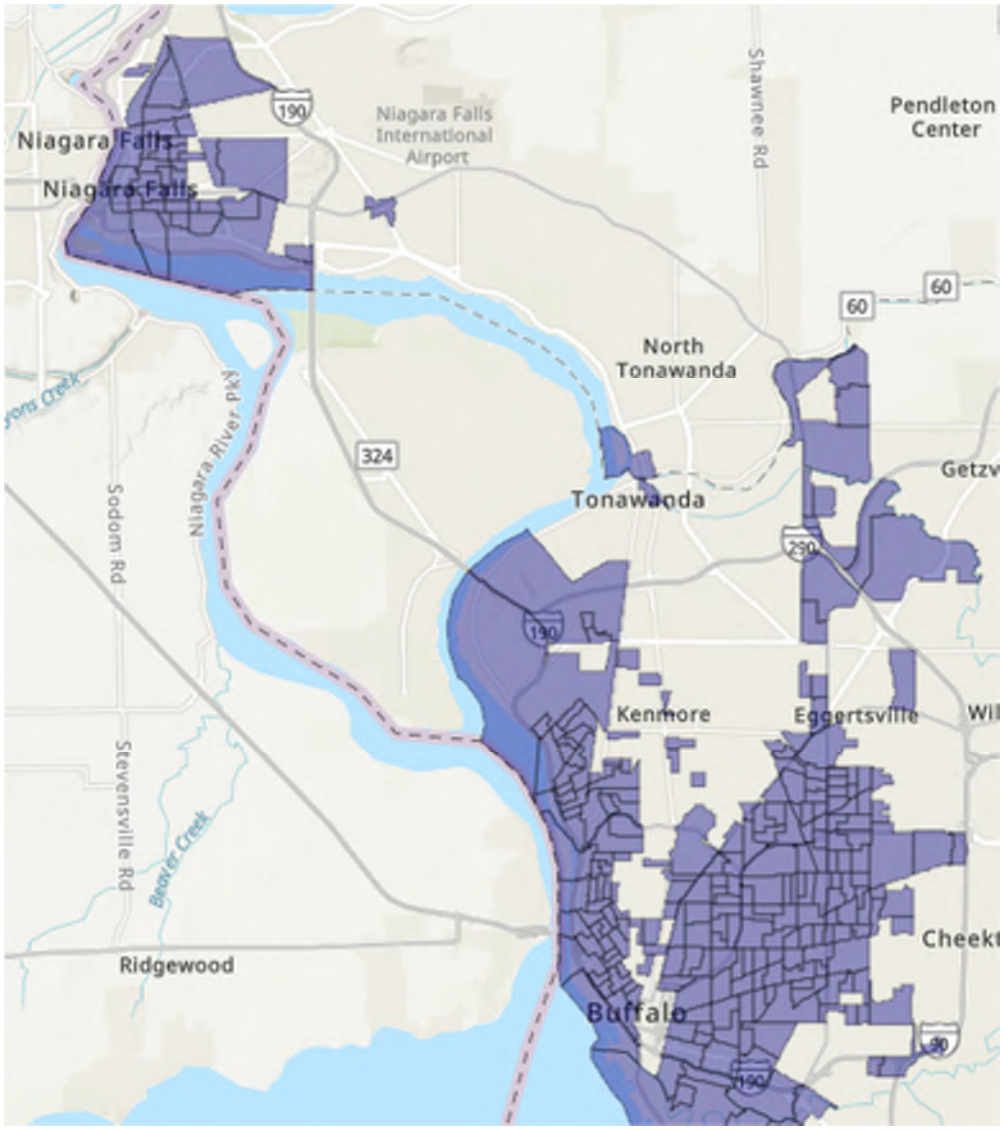


Figure 1-4: Potential Environmental Justice Areas Downstream of the City of Buffalo

1.2 Ownership and Service Area

The Authority's wastewater service area covers approximately 110 square miles, including the City of Buffalo and parts of the Towns of Alden, Cheektowaga, Elma, Lancaster, Tonawanda, and West Seneca, and the Villages of Depew, Lancaster, and Sloan, as well as Erie County Sewer District Nos. 1 and 4, as shown in Figure 1-5. The collection system serves a population of approximately 550,000 residents in 11 municipalities.

The Edison Avenue Storm Relief Sewer is part of the 850 miles of combined sewers, separate sanitary sewers and separate storm sewers owned by the Authority, a public benefit corporation of the State of New York established in 1935, that serves the City of Buffalo, NY. Of those 850 miles of sewers, 790 miles of those are combined sewers. The Edison Avenue Storm Relief sewer is one of them.

1.2.1 Outside Users

There are seven outside users connected to Buffalo Sewer's collection system, governed under individual intermunicipal agreements (IMAs) including:

- Erie County Sewer District #1
- Erie County Sewer District #4
- Town of Cheektowaga
- Village of Sloan
- West Seneca Town Sewer Districts #1, 2, 3, 4, 9 and 10
- West Seneca Town Sewer Districts #5, 13, and 14
- West Seneca Town Sewer District #1

Buffalo Sewer has wholesale agreements with these outside communities and does not own, operate, or maintain the wastewater collection systems within these communities. Each of these outside communities are charged by the Authority for their share of costs allocable to the treatment of their flows to the wastewater treatment facility (WWTF). Allocable costs include portions of administrative expenses, WWTF expenses, industrial waste expenses, the costs to maintain trunk sewers to convey flows from the city line to the WWTF, and debt service costs. The municipality or district is billed twice annually for services. Under the IMAs, each District is responsible for installing and maintaining meters at city lines. Buffalo Sewer has rights to challenge accuracy of meters, including through installation of test meters.

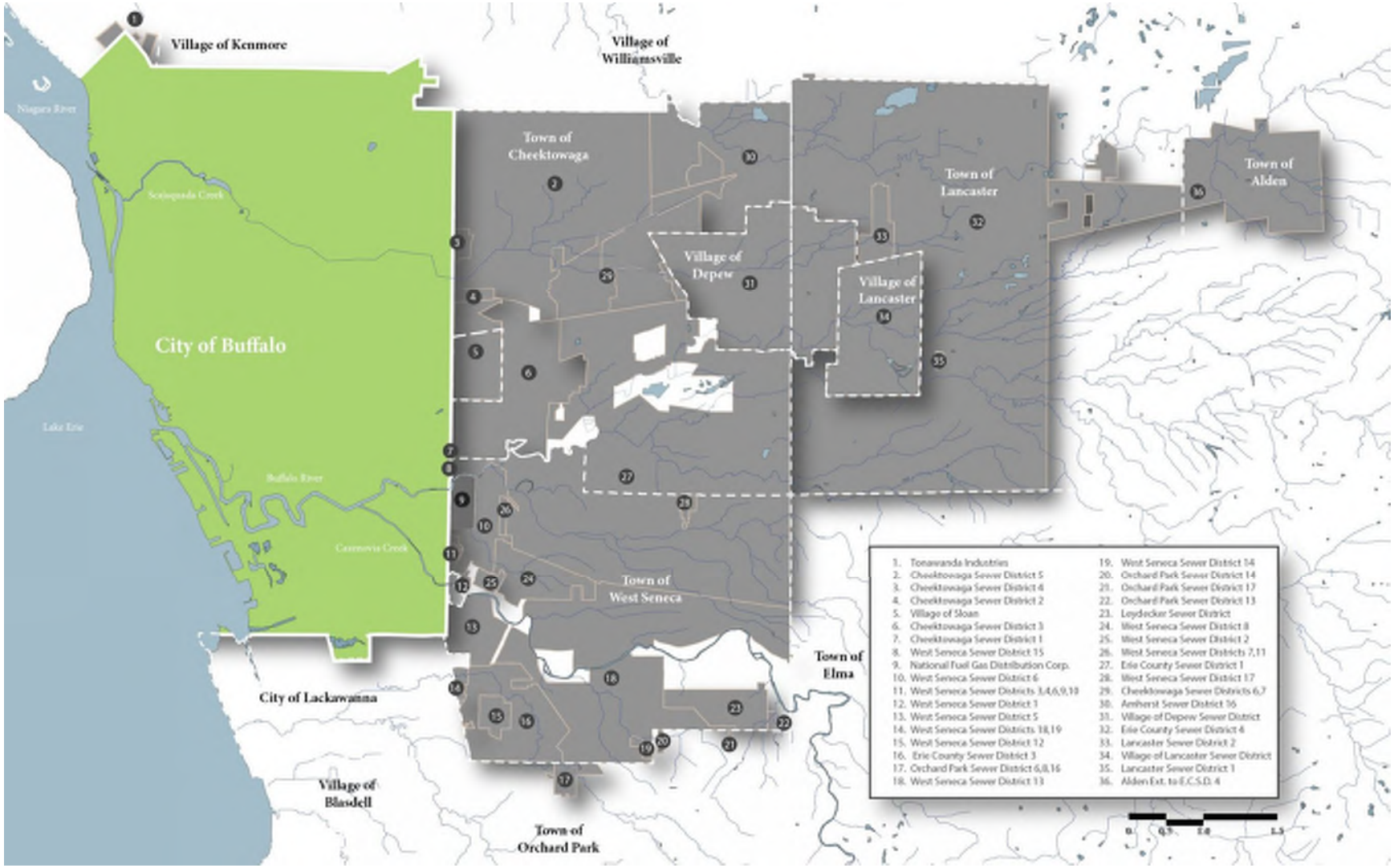


Figure 1-5: Buffalo Sewer Authority Service Area Map

1.2.2 Population Trends

Historically, the City of Buffalo has experienced population decline, unlike the population growth seen in New York State as a whole, as shown in Table 1-1. However, from 2010 to 2020, there was a population growth of 6.5%. Assuming an average population change based on the recent decade, it is projected the city's population will continue to grow at a rate of approximately 5.8% every ten years.

Table 1-1: Historical and Projected Population

Year	City of Buffalo		New York	
	Population	% Change	Population	% Change
1960	532,759		16,782,304	
1970	462,768	-13.1%	18,236,967	8.7%
1980	357,870	-22.7%	17,558,072	-3.7%
1990	328,123	-8.3%	17,990,455	2.5%
2000	292,648	-10.8%	18,976,457	5.5%
2010	261,310	-10.7%	19,378,102	2.1%
2020	278,349	6.5%	20,201,249	4.2%
2030*	295,388	5.8%	21,024,396	3.9%
2040*	312,427	5.8%	21,847,543	3.9%
2050*	329,466	5.8%	22,670,690	3.9%
2060*	346,505	5.8%	23,493,837	3.9%

*Projected

Source: US Census Bureau

As the population of the city is growing, the number of Buffalo Sewer connections has also increased over the past 11 years. Per the most recent Comprehensive Annual Financial Report (CAFR), as of FYE 2022, there are approximately 108,155 residential connections and 1,306 commercial, industrial, and governmental connections to the Authority's collection system. These connections increased by 4.4% and 132% respectively, from FY 2014 to FY 2023. Figure 1-6 shows the growth of connections since FY 2014.

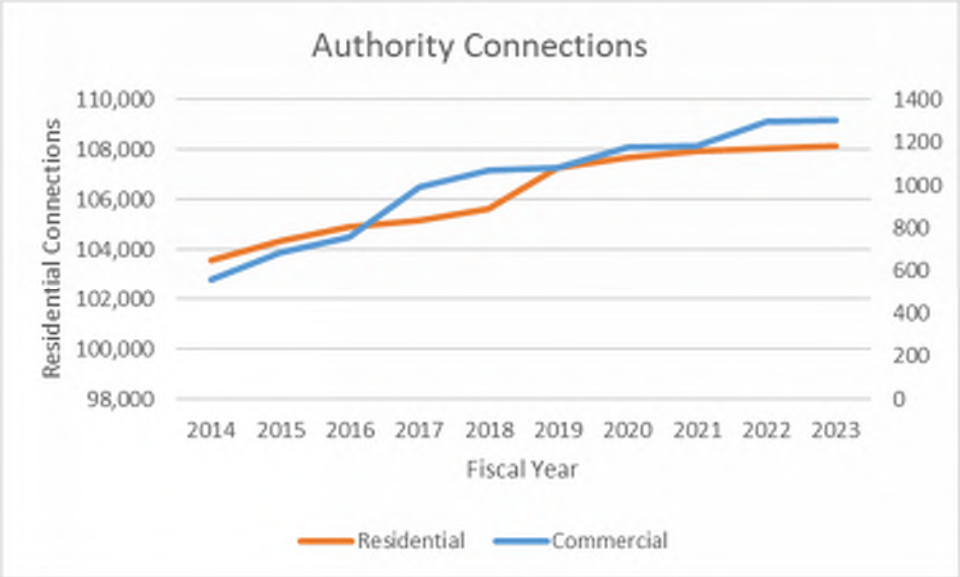


Figure 1-6: Buffalo Sewer Authority Connections

1.3 Existing Facilities and Present Condition

The 2014 LTCP provides an overview of the Authority's major system components including treatment and conveyance. The only existing Authority facility part of the proposed Edison Martha OLS project is the Edison Avenue Storm Relief Sewer.

1.3.1 General Description and History of Major System Components

The Edison Avenue Storm Relief Sewer was constructed in the early 1960s along Eggert Avenue, Kay St. and Edison Avenue north of the Kensington Expressway near the eastern border of the City of Buffalo to allow storm water flows which exceed the capacity of the adjacent combined sewers to be diverted from the combined sewers to the relief sewer in order to relieve sewage backups and basement flooding. The Edison Avenue Relief Sewer joins the Kensington Expressway Sewer at Edison Avenue just north of the intersection of Edison Avenue and the Kensington Expressway, which carries the excess storm water flow to the Scajaquada Tunnel Interceptor. When it was originally constructed, the Kensington Expressway Sewer at Edison Avenue originally discharged directly to the Scajaquada Drain. Later when the Scajaquada Tunnel Interceptor was built, the majority of the flow from the Kensington Expressway Sewer at Edison Avenue was directed to it.

However, when the Scajaquada Tunnel Interceptor does not have adequate capacity to convey the flow from the Kensington Expressway Sewer at Edison Avenue, the regulator at Sewer Patrol Point (SPP)340, located near the intersection of Hagen Street and Kerns Avenue, will overflow the excess flow to the Scajaquada Drain, a 3.7 mile underground culvert which carries the Scajaquada Creek through the eastside of the City of Buffalo from the border with the Town of Cheektowaga to Forest Lawn Cemetery where Scajaquada Drain eventually daylights and once again becomes Scajaquada Creek. The point where Scajaquada Creek emerges from its underground tunnel is known as CSO-053. Downstream, Scajaquada Creek joins the Black Rock Canal and eventually the Niagara River.

1.3.2 Current or Future Projects on the same Site

The existing recreational facilities at the Roosevelt Playground are in a derelict condition. The Buffalo Division of Parks and Recreation has been working with New City Parks, a non-profit organization whose mission is to work closely with small cities and their underserved communities to create parks where they are most needed, bringing greater health and happiness through play, exercise, and contact with nature, and building environmental and community resilience; to create a master plan for the Roosevelt Playground and to seek funding to implement the master plan. Photographs of the existing Roosevelt Playground facilities as well as the plan that New City Parks has created for the site can be viewed at: https://www.newcityparks.org/projects-grid/roosevelt-park. Some project funding has been secured, and they are currently in the process of securing additional funding for the project.

The plan moving forward would be that the planned park facilities work, predominantly located on the west side of the parcel, would overlap with the Edison Martha OLS work, so that at the conclusion of the projects a revitalized parkland would be returned to the community. The design team for the Edison Martha OLS basin will need to carefully coordinate the storage tank's above ground facilities with the design team for the park improvements to minimize any negative impact they could have on the plans for the park.

1.3.3 Existing Permits

The Authority currently holds State Pollution Discharge Elimination System (SPDES) permit and Publicly Operated Sewer System (POSS) number NY0028410 for its Bird Island Wastewater Treatment Facility and collection system. The permit was last renewed in 2019. Refer to Appendix F for a copy of the current permit.

The Authority currently operates under an Administrative Order (AO) with the US EPA, DEC and DOJ, that requires the Authority to comply with the LTCP that was developed and agreed upon by the parties to reduce the incidents of CSOs from its collection system. The requirements of the LTCP have been incorporated into their current SPDES permit. Refer to Appendix F for a copy of the 2015 Administrative Order.

1.3.4 Design Flows

The Edison Avenue Storm Relief Sewer begins to collect flow as a 42-inch diameter pipe set at a slope of 0.20 percent, having a hydraulic capacity of 29 million gallons per day (mgd), from where it is joined to an existing 24-inch diameter sewer just north of the intersection of Eggert Road and Dartmouth Avenue. It runs southward down Eggert Road increasing in size and slope, and therefore capacity, as sewers along Eggert Road, Dartmouth Avenue, Burke Drive, Hewitt Avenue, and Kensington Avenue discharge into it. The pipe size increases to 60-inches diameter with a slope of 0.24 percent having a hydraulic capacity of nearly 82.5 mgd where it turns from Eggert Road to Kay Street. The relief sewer continues to collect the flow from local sewers along Kay Street and intersecting streets of: Davidson, Hastings, Phyllis and Millicent Avenues, increasing its slope to 0.48 percent at Davidson Avenue for a hydraulic capacity of 116.6 mgd, and then increasing its size to 72-inch diameter with a slope of 0.56 percent for a capacity of nearly 205 mgd at the intersection of Hastings Avenue. It continues at this size and slope as Kay Street becomes Edison Avenue south of Millicent Avenue. The relief sewer continues to collect flow from local sewers along Edison Avenue as well as local sewers along the intersecting streets of Gail and Martha Avenues before discharging into the Kensington Expressway Sewer at Edison Avenue just north of the intersection of Edison Avenue and the Kensington Expressway.

Figure 1-7: Edison Avenue Storm Relief Sewer

1.3.5 Existing flows

Flow monitoring was last conducted in the area from July of 2016 through May of 2017. The maximum flow level during the monitoring period in the 72-inch diameter sewer at the intersection of Kay Street and Hastings Avenue, approximately 700 feet upstream of the proposed inlet to the Edison Martha OLS, was 30 inches which would appear to indicate excess capacity in the sewer. However, the CSS modeling shows that for a ten-year design storm the 72-inch diameter sewer would enter a surcharged condition.

1.3.6 Existing Energy Consumption

The Edison Avenue Storm Relief Sewer is a gravity sewer and has no external energy input.

1.4 Definition of the Problem

One of the issues identified in the Remedial Action Plan (RAP) for the Niagara River, developed in response to its designation as an Area of Concern (AOC), was the impact of combined sewer overflows (CSOs). The RAP's recommendations to "ensure that combined sewer overflows do not significantly contribute to river impairment" include system modeling and assessment to identify areas for improvement, maintaining systems, and designing and implementing necessary improvements. These requirements align with the US EPA CSO Control Policy and are reflected in the Best Management Practices (BMPs) outlined in the Authority's SPDES permit and the Administrative Order.

As part of the 2014 Long Term Control Plan (LTCP), it was determined that to meet the Water Quality Standards (WQS) of the Clean Water Act for Scajaquada Creek and downstream water bodies, the number of typical annual activations at CSO-053 needed to be reduced from 65 to a maximum of four. The 2023 LTCP optimization noted that efforts up to that point had reduced the annual activations at CSO-053 from 65 to 37 and reaffirmed that a maximum of four activations at CSO-053.

During the 2023 optimization process, the original list of future projects was reviewed to determine their viability and effectiveness in reducing the number of activations. This evaluation revealed that the current project list would only reduce the annual activations at CSO-053 to 26, not the desired four. A major factor for this shortfall was the discovery of a previously unknown cross-connection between the SPP339 basin and the SPP340 basin, which resulted in significantly more activations at SPP340 than initially predicted.

Consequently, a new list of additional projects was developed and evaluated using the revised Combined Sewer System (CSS) model to determine the most cost-effective projects needed to achieve the goal of a maximum of four annual activations for CSO-053. The revised project list for the area upstream of regulator SPP340 included the Edison Martha Offline Storage (OLS) project as one of the key initiatives to achieve the desired reduction in CSOs.

1.4.1 Compliance with current standards (federal, state, and local laws)

The proposed project is an outcome of Administrative Order Docket No. CWA-02-2012-3024 (SPDES Permit No. NY0028410). The Administrative Order resulted in the preparation of an LTCP to refine the Authority's sewer collection system model and to reduce CSO overflow volumes and frequencies. The LTCP was finalized in accordance with the Clean Water Act, Ten States Standards, and New York State Water Quality Standard Compliance measures. A copy of the Administrative Order is included in Appendix F.

1.5 Financial Status

The Authority currently receives revenue from the sources noted in Table 1-2, below.

Table 1-2: Comparison of Revenues (Actual and Budgeted) since 2021

Revenues	2021-2022 Actual	2022-2023 Actual	2023-2024 Original	2024-2025 Proposed
Operating Revenues				
Assessed sewer rents	12,052,518	12,106,288	19,852,600	24,957,600
Metered water use sewer rents	24,716,758	24,708,243	24,460,000	25,136,900
Outside Contracts	23,414,326	12,665,958	13,750,000	15,000,000
Industrial Waste Charges	4,505,575	5,133,775	3,525,000	3,875,000
Miscellaneous Revenue	31,097,051	18,036,621	4,691,400	1,305,500

Revenues	2021-2022 Actual	2022-2023 Actual	2023-2024 Original	2024-2025 Proposed
Non-Operating Revenues				
Interest Charges	597,601	858,886	711,000	615,000
Interest Earnings	148,078	3,759,557	2,760,000	3,510,000
Total Revenues	**96,531,907**	**77,269,329**	**69,750,000**	**74,400,000**

Note: Values are rounded to the nearest dollar. For more detailed numbers, see the Authority's 2024-2025 Budget at 2024-2025-BSA-Budget-1.pdf (buffalosewer.org)

The Levy of Sewer Rents based on assessed value will be $24,900,000 for the 2024-2025 Budget. This represents the amount of Sewer Rent that the Buffalo Sewer Authority will collect from all real property in the City of Buffalo except those properties exempt by law. This amount, when spread over the total estimated assessment for sewer purposes from the Department of Assessment, will result in an annual sewer rent of approximately $1.98 for each $1,000 of assessed valuation.

Any further change in the assessed value of taxable properties will require an adjustment to the assessment sewer rent to maintain this levy. If the final assessed value as determined by the City Department of Assessment increases or decreases, the sewer rent per $1,000 will correspondingly increase or decrease by $.00015673 for each $1,000,000 change in assessed value.

All sewer rents based on water use will be subject to a three percent adjustment to reflect consumer price indices. Flat rate sewer rents continue to be charged based on property characteristics (i.e., number of stories, front footage, etc.). Sewer rent meter charges will be assessed at a rate of $11.42 per 1,000 cubic feet. All flat and meter accounts will be assessed a capacity/drainage charge at a minimum of $6.18 per month.

The appropriations from the 2024-2025 budget for various expenditures are as shown in Table 1-6.

Table 1-3: Summary of Appropriations in the Authority's 2024-2025 Budget.

Appropriation Category	2024-2025 Budgeted Appropriation
Personnel Services	17,731,441
Utility Services	5,609,810
Fringe Benefits	12,296,500
Debt Service and Reserves	10,360,256
Purchase of Services	17,681,274
Materials and Supplies	8,343,957
Capital Outlay	1,500,960
Insurance and Financial Charges	649,500
Professional Development	221,302
TOTAL	**74,400,000**

In 2024-2025, the Authority anticipates debt payments of $8,610,256, which is a slight increase over the 2023-2024 budgeted amount of $8,044,007. In 2023, the Authority had ~$21.5 million in net revenue available for debt service, with estimated principal of ~$3.3 million, interest of ~$2.9 million, for a total debt service coverage of 3.43 (from the Authority's Annual Comprehensive Financial Report for Fiscal Year ended June 30, 2023).

The Median Household Income (MHI) for the City of Buffalo is $46,184 in 2022 dollars, while the NYS MHI is $81,386 in 2022 dollars as per the data at https://www.census.gov/quickfacts/fact/table/NY,buffalocitynewyork/INC110222. Therefore, the City of Buffalo MHI is only 57% of the New York State MHI.

SECTION 2 ALTERNATIVES ANALYSIS

The Edison Martha OLS project is one of several projects under the umbrella of the LTCP developed by the Authority to abate CSO events in compliance with the US EPA National CSO Control Policy and to meet WQS required per the Clean Water Act.

The LTCP began in 2004 at which time the Authority investigated the following system-wide improvement alternatives for CSO abatement:

- Foundation Plan, including floatables control, diversion structures, and partial sewer separation
- Consolidated District Consultant Plan, including offline and inline storage facilities
- System-Wide Storage with Partial Separation
- System-Wide Storage with Partial Separation (Excluding Buffalo River and Erie Basin CSOs)
- Satellite Treatment with Partial Separation
- Satellite Treatment with Partial Separation (Excluding Buffalo River and Erie Basin CSOs)
- Complete Separation

These alternatives were revisited in the 2014 LTCP report and additional alternatives were evaluated, including the following:

- Updated Analytical and Reporting Approach, including continuous simulation approach, CSO statistics reporting approach, and inter-event time (IET) for reporting CSO activations
- Phase I CSO Project Implementation
- Real-Time Control (RTC) Evaluation
- System-wide Green Infrastructure (GI)
- Revised Foundation Plan
- Additional System-wide Alternative Evaluations, including an updated 2004 Preferred System-wide Alternative (UA1), a new RTC/GI/North Relief at the Plant Alternative (UA2), a new System-wide Tunnel Alternative (UA3), and a new System-wide Tunnel with North Relief/High-Rate Treatment at the Plant Alternative (UA3A)

Again, these alternatives were revisited in 2023 in the LTCP Optimization Selected Alternative Technical Memorandum (Memo). This Memo was completed to update the understanding of the projects included in the 2014 LTCP report known as the baseline projects, and to provide an overview of the optimization process to select the revised set of projects to achieve LTCP compliance. The resulting set of projects, known as the Selected Alternative, are presented in the Memo, including the Edison Martha OLS Project.

As indicated above, the Authority has considered many options to accomplish the necessary CSO abatement set forth in the AO. To ensure the Selected Alternative for the Edison Martha OLS Project is still the recommended alternative for the SPP340 tributary area and the CSO-053 sewershed in 2024 and beyond, Arcadis evaluated the following alternatives. The cost for the OLS tank was developed for Preliminary Design and is assumed to be a Class 4 estimate, which would equate to +20% / -15% on the low end, and +50% / -30% on the high end.

For an apples-to-apples comparison, costs were developed on a high level for the sewershed-wide alternatives. Calculations associated with these costs have been included in the sub sections below. These costs are assumed to be a Class 5 estimate, which would equate to +30% / -20% on the low end, and +100% / -50% on the high end. These costs were determined using the following assumptions:

- For green infrastructure and partial sewer separation cost development, the costs from the 2014 LTCP, expressed on a per tributary area controllable by permeable pavement or redirection of street runoff (in acres) were updated from 2012 dollars (as used in the 2014 LTCP) to 2025 dollars using ENR Construction Cost Indices.

- A market factor of 50% was added onto the 2025 costs for partial sewer separation and tunnel options to account for recent patterns in bids received as compared to engineering estimates, and indicative of current construction market conditions.
- A project contingency of 35% (in accordance with New York State Environmental Facilities Corporation guidelines) and an engineering percentage of 15% was added onto the construction cost to obtain a project cost for comparison purposes.
- Deep tunnel costs were estimated based on the same tunnel, dewatering pump station, and piping costs cost curves used in the 2014 LTCP updated to 2025 dollars. In addition, the costs for drop shafts at each SPP noted under the tunnel alternative were taken from costs developed in the evaluation of the Genesee SPP341A drop shaft within this report.

2.1 Alternative 1 – No Action

2.1.1 Description

Under the no action alternative, no improvements would be made to the SPP340 tributary area nor the CSO-053 sewershed. This alternative would not reduce the number of annual CSO events, resulting in continued non-compliance with the Clean Water Act. Since the Authority is under AO to achieve a maximum of 4 annual CSO events at CSO-053, this alternative is infeasible and will not be pursued.

2.2 Alternative 2 – Green Infrastructure

2.2.1 Description

Green infrastructure (GI) was considered as an alternative for achieving the targeted number of activations. BSA has been passively implementing GI by accounting for reduction in impervious area as redevelopment occurs. Usually as abandoned buildings are demolished and lots are cleared, the reduction in impervious area is accounted for as potential GI within the sewershed. Annually, the model is updated with new impervious and pervious areas for each SPP tributary area based on the properties addressed.

Various model runs were performed that implemented different levels of control, in terms of acreage. For the purposes of this evaluation, it was assumed that the GI to be implemented would be permeable pavement, as the reduction in impervious area that BSA is achieving with lot demolitions is not enough to significantly impact the number of CSO activations. Permeable pavement was the chosen means for establishing GI since it is the most effective option for urban environments. The model assumes parking lanes within the tributary area will be converted to permeable pavement.

2.2.2 SPP340 Green Infrastructure

The table below summarizes the effects of permeable pavement implementation (by percentage and by acre) on the annual overflow volume and number of annual overflow events for the SPP340 tributary area.

The model shows that even if 100% of the parking lanes were replaced with permeable pavement within the 293.8-acre tributary area, the AO would not be met. This alternative is therefore considered infeasible.

Table 2-1: CSS Model Results for Green Infrastructure for SPP340

Permeable Pavement (%)	Permeable Pavement (acres)	Annual Overflow Volume (MG)	No. of Annual Overflow Events
0	0	41.6	16
20	58.8	36.0	14
40	117.5	31.7	12

60	176.3	27.6	10
80	235.0	25.7	10
100	293.8	22.8	9

2.2.3 SPP340 Base Construction Cost

The base construction cost of GI was calculated to be an average unit price of $254,000 per acre. At 293.8 acres, this results in an alternative cost of $74,501,000. The cost of this alternative is not relevant as it requires additional projects which would add to the overall cost to achieve the target activation level of 4.

2.2.4 CSO-053 Green Infrastructure

The model was run for each of the SPPs within the CSO-053 sewershed to determine the feasibility of the green infrastructure alternative for the sewershed. The table below lists the impacted SPP within the sewershed, the percentage of permeable pavement required to meet the AO, the estimated cost per tributary area, and the notes for each tributary area.

The model shows that even if 100% of the parking lanes were replaced with permeable pavement within the SPP336B, SPP337, SPP338, SPP340, and SPP341A tributary areas, the AO would still not be met. This alternative is therefore considered infeasible.

Table 2-2: CSS Model Results for Green Infrastructure for CSO-053

Impacted SPP	Permeable Pavement (%)	Permeable Pavement (acres)	Estimated Costs (in millions of dollars)	Notes
165B	0	0	--	Target already achieved with 1 activation predicted.
175	40	82.1	$20.8	40% GI will reduce activations from 5 to 2 at this SPP.
176				
177				
336B	100	603.5	$153	Even with 100% implementation of GI, the number of activations will be reduced from 36 to 12, but still not achieve the targeted number of activations at 4.
337	100	332.8	$84.4	
338	100	756.4	$191.8	
340	100	293.8	$74.5	
341A	100	89.9	$22.8	
TOTAL		2,158.5	$394	

2.2.5 CSO-053 Base Construction Cost

The overall CSO construction cost of GI was calculated to be an average unit price of $254,000 per acre. At 2,158.5 acres this results in an alternative cost of $394,000,000. The cost of this alternative is not relevant as it requires additional projects which would add to the overall cost to achieve the target activation level of 4.

2.3 Alternative 3 – Partial Sewer Separation

2.3.1 Description

This alternative achieves partial sewer separation via stormwater redirection from the public right of way (ROW), which is mainly composed of the roadways and associated catch basins currently connected to the combined system. This alternative includes the installation of new storm sewers in the public ROW to intercept existing catch basins and the impervious areas directly connected to the roadway before the runoff can enter the combined sewer system. The storm flows would be redirected to new storm water outfalls along Scajaquada Creek, thereby removing the storm flows from the SPP340 tributary area/the CSO-053 sewershed. The existing combined sewer system will remain and will still receive sanitary and stormwater flows from the private properties in the tributary area.

2.3.2 SPP340 Partial Sewer Separation

The CSS model was run to analyze the potential for surface stormwater redirection in the SPP340 tributary area. The model was run based on 20%, 40%, 60%, 80%, and 100% stormwater redirection, see table below. To comply with the AO, 100% of the surface runoff would need to be redirected to the new storm sewers.

Table 2-3: CSS Model Results for Partial Sewer Separation for SPP340

Level of Partial Sewer Separation (%)	Annual Overflow Volume (MG)	No. of Annual Overflow Events
0	41.6	16
20	31.9	13
40	20.6	10
60	12.4	8
80	7.0	6
100	2.8	4

Collecting 100% of surface runoff with a new storm sewer system would require the addition of miles of piping and numerous catch basins to cover the 293.8-acre tributary area. This amount of construction and disturbance to the neighborhood would present significant challenges.

2.3.3 SPP340 Base Construction Cost

The base construction cost of partial sewer separation was calculated to be an average unit price of $225,000 per acre. At 293.8 acres, this results in an alternative cost of $66,105,000.

2.3.4 CSO-053 Partial Sewer Separation

The CSS model was run to analyze the potential for surface stormwater redirection in the CSO-053 sewershed. The model was run based on 20%, 40%, 60%, 80%, and 100% stormwater redirection, see table below.

The model shows that even if 100% of stormwater was redirected in the SPP336B and SPP337 tributary areas, the AO would still not be met. This alternative is therefore considered infeasible.

Table 2-4: CSS Model Results for Partial Sewer Separation for CSO-053

Impacted SPP	Partial Sewer Separation (%)	Partial Sewer Separation (acres)	Estimated Costs (in millions of dollars)	Notes
165B	0	0	--	Target already achieved with 1 activation predicted
175	40	82.1	$18.5	Activations reduced from 5 to 1 at this SPP
176				
177				
336B	100	603.5	$135.8	Target not achieved
337	100	332.8	$74.9	Target not achieved
338	80	605.1	$136.2	Activations reduced from 19 to 0
340	100	293.8	$66.1	Activations reduced from 16 to 4
341A	80	71.9	$16.2	Activations reduced from 14 to 3
TOTAL		**1,989.2**	**$447.6**	

2.3.5 CSO-053 Base Construction Cost

The base construction cost of partial sewer separation was calculated to be an average unit price of $225,000 per acre. At 1,989.2 acres this results in an alternative cost of $447,572,000. The cost of this alternative is not relevant as it requires additional projects which would add to the overall cost to achieve the target activation level of 4.

2.4 Alternative 4 – Deep Tunnel

2.4.1 Description

Note that this alternative applies to the CSO-053 sewershed only. A deep tunnel would be infeasible in the SPP340 tributary area.

This alternative includes building offline storage in the form of deep tunnels well below the existing combined sewer system, similar to what is currently present as the Scajaquada Tunnel. Overflow from each of the SPPs in the CSO-053 sewershed would be redirected into drop shafts and into a new tunnel for storage. Given the significant depth of a Tunnel, this option would also need a dewatering pump station and force main to return stored flow to the collection system following the rain event.

To control to the target number of activations of 4 activations during the typical precipitation year for each SPP, a tunnel would need to be sized as follows:

- Length – 25,400 linear feet

- Diameter – 12 feet
- Adit lengths and diameters as shown below
- Associated drop shafts at each SPP
- Dewatering pump station sized to dewater the storage tunnel within 24 hours after the rain event, resulting in a total annual dewatered volume of 265 million gallons

Table 2-5: Summary of Adit Connections to New Deep Tunnel

SPP	CSO	Adit Length (ft)	Adit Diameter (ft)
SPP179	006	605	5
SPP180	006	15	2
SPP331	006	50	3
SPP175	053	5435	2
SPP229A	053	15	2
SPP333	053	600	4
SPP336B	053	410	5
SPP337	053	15	5
SPP338	053	15	4
SPP339	053	15	3
SPP340	053	60	5
SPP341A	053	560	3

2.4.2 CSO-053 Base Construction Cost

The base construction cost of the deep tunnel was calculated to be $225,997,000.

2.5 Alternative 5 – Offline Storage Tank (Selected Alternative)

2.5.1 Description

This alternative is the chosen alternative under the 2023 Optimization Memo Selected Alternative plan for the Authority's LTCP.

While preparing the 2023 LTCP Optimization Memo, a previously unknown cross-connection between the SPP339 basin and the SPP340 basin was discovered. This cross connection was added to the revised sewer model. When the uncompleted baseline projects from the 2014 LTCP report were added to the model, it was determined that completing these projects would no longer bring the predicted number of activations for CSO-053 down to the desired number of four, but still leave 26 predicted activations in a typical year. The intent of this project, in combination with the other LTCP projects noted for CSO-053, is to reduce annual combined sewer overflow activations from a predicted number of 37, based on the current model, to a maximum of four.

2.5.2 SPP340 Offline Storage Tank (Selected Alternative)

To accomplish this for the collection system upstream of SPP340, it was determined that it would be necessary to provide an additional storage volume of at least 2.61 million gallons within the collection system and make certain modifications at the SPP. The intent of this project is to provide this 2.61 million gallons of storage in the collection system upstream of SPP340, which regulates the overflow of sewage

from the Scajaquada Interceptor to the Scajaquada Tunnel at one of several locations in order to reduce the number of annual activations at CSO-053 downstream.

Two possible sites within the collection system upstream of SPP340 were originally selected for locating a portion of the 2.61 MG of storage volume, but the site known as Lang Weber was quickly ruled out as it was determined that the site had elevation constraints that made it not viable to provide any meaningful storage volume at that location.

Therefore, it was determined that the entire storage volume for the collection system tributary to SPP340 would need to be provided at the Edison Martha site.

The Edison Martha OLS project includes building an underground offline storage (OLS) tank to receive and store up to 2.61 million gallons (MG) of combined sewage from the Edison Avenue Storm Relief Sewer during wet weather events, and the sewers needed to divert the sewage flow from the Edison

Avenue Storm Relief Sewer to the underground tank and return the stored combined sewage from the tank to the relief sewer downstream when capacity is available.

Figure 2-1: Alternative 5 – Offline Storage Tank Proposed Project Plan

The Edison Martha OLS will include a 2.61 MG underground concrete storage basin, a 48-inch diameter influent sewer and a 24-inch diameter effluent sewer connecting the storage basin to the existing relief sewer on Edison Avenue. The storage basin will include tipping buckets and associated water connections for the purposes of cleaning the underground storage basin, and instrumentation and controls to monitor conditions in the tank.

2.5.3 SPP340 Base Construction Cost

The cost of the Edison Martha OLS tank was calculated during the Preliminary Design in 2024. This resulted in a cost of $38,650,000.

2.5.4 CSO-053 Offline Storage Tanks & SPP Modifications (Selected Alternative)

This alternative includes a combination of offline storage tanks and SPP modifications as shown in the table below. Each project was assessed within the collection system like the alternatives noted above and modifications to the model were made to fine-tune the recommendations. In some cases, several iterations were completed to determine the most appropriate modifications. However, if the targets could be achieved by a simple weir elevation change, this modification was recommended as it provided a simple, cost-effective improvement to reduce flows and more extensive improvements were not evaluated. These improvements achieved 4 activations or less at each SPP in the typical year.

Table 2-6: CSO-053 Selected Alternative Projects and Costs

Impacted SPP	Description of Project	Cost from PER ($million)	Notes
165B	Replacement of 1000 LF of 24-inch pipe with 36-inch pipe and expansion of the junction chamber	---	Further evaluations during final design deemed this project unnecessary.
175	Increasing weir heights in the three SPPs	$0.13	
176			
177			
336B	Constructing a 5.5 MG buried concrete tank, diversion structure and tank inlet and outlet sewers	$44.62	Design being refined from an off-line storage tank to a real-time control structure
337	Installation of a new vortex-style drop shaft to the Scajaquada Tunnel to accommodate a peak flow of 48 MGD	$7.03	
338	Installing longer/higher weir within the SPP.	$0.16	Project removed from this set of projects and moved into an existing project with work in the same location as a change order
340	Constructing a 2.61 MG buried concrete tank, diversion structure and tank inlet and outlet sewers	$38.65	
341A	Installation of a new vortex-style drop shaft to the Scajaquada Tunnel to accommodate a peak flow of 26.4 MGD	$4.22	

TOTAL		**$94.82**	

2.5.5 CSO-053 Base Construction Cost

The overall cost for CSO-053 was totaled at $94,820,000 based on the sum of the Selected Alternative projects.

SECTION 3 RECOMMENDED ALTERNATIVE

3.1 Cost and Feasibility Comparison

3.1.1 SPP340 Alternatives Selection

Table 3-1: SPP340 Alternatives Cost and Feasibility Comparison

Alternative No.	Cost (2025 USD)	Feasibility
1 – No Action	$0	Infeasible
2 – Green Infrastructure	$74,501,000	Infeasible
3 – Partial Sewer Separation	$66,105,000	Feasible
4 – Deep Tunnel (N/A)	--	--
5 – Offline Storage Tank (Selected Alternative)	$38,650,000	Feasible

Alternatives 1 and 2 are considered infeasible because they are incapable of reaching the AO mandate of a maximum of 4 annual CSO events at CSO-053. Alternative 3, although feasible, presents significant construction challenges and higher costs compared to alternative 5. Alternative 3 would require the implementation of new storm sewers across the entire SPP340 tributary. This would mean disrupting the daily lives of hundreds of families, all of whom lay within a low-income, environmentally compromised area. Additionally, this alternative assumes 100% storm water redirection is plausible. Achieving 100% redirection in practice is highly unlikely, leading to potential compliance issues post-construction. Although feasible, this alternative has been ruled out for these reasons.

Alternative 5 is less expensive than alternative 3 and is confined to a smaller land footprint. The construction will take place within the confines of Roosevelt Playground, a site that will be undergoing redevelopment in the coming years. This is the most cost-effective option for the SPP340 tributary area and will have the lowest impact on the vulnerable community. For these reasons, Alternative 5 – Offline Storage Tank (Selected Alternative) is the recommended alternative for SPP340.

3.1.2 CSO-053 Alternatives Selection

Table 3-2: CSO-053 Alternatives Cost and Feasibility Comparison

Alternative No.	Cost (2025 USD)	Feasibility
1 – No Action	$0	Infeasible
2 – Green Infrastructure	$394,000,000	Infeasible
3 – Partial Sewer Separation	$447,570,000	Infeasible
4 – Deep Tunnel	$225,997,000	Feasible
5 – Offline Storage Tanks & SPP Modifications (Selected Alternative)	$94,820,000	Feasible

Alternatives 1, 2, and 3 are considered infeasible because they are incapable of reaching the AO mandate of a maximum of 4 annual CSO events at CSO-053. Alternative 4, although feasible, presents significant construction challenges and higher costs compared to alternative 5. Alternative 4 would require the implementation of a new deep tunnel in the sewershed. This would mean disrupting the daily lives of hundreds of families, all of whom lay within a low-income, environmentally compromised area. Although feasible, this alternative has been ruled out for these reasons.

Alternative 5 is less expensive than alternative 4 and is confined to a smaller land footprint. The construction will take place within the confines of City-owned parks and existing SPP infrastructure. This is the most cost-effective option for the CSO-053 sewershed and will have the lowest impact on the vulnerable community. For these reasons, Alternative 5 – Offline Storage Tanks & SPP Modifications (Selected Alternative) is the recommended alternative for CSO-053.

3.2 Basis of Selection

3.2.1 Prioritization of Recommendations

In the 2023 LTCP Optimization Memo, each project included in the Selected Alternative was given a score based on the ranking system indicated in Table 3-1. These project scores were used to put together the proposed implementation schedule that would prioritize the projects which could provide the most impact.

Table 3-3: Project Ranking System

No.	Factor	Score Conditions		
		1	2	3
1	SPP Overflow Volume Rank	Baseline typical year SPP overflow volume > 5 MG	Baseline typical year SPP overflow between 1 and 5MG	Baseline typical year SPP overflow volume < 1 MG
2	Waterbody Rank	Black Rock Canal and Scajaquada Creek SPPs	Buffalo River SPPs	Erie Basin and Niagara River SPPs
3	SPP Project Rank	Highest priority project upstream of a particular SPP based	2nd Highest priority project upstream of a particular SPP based on	3rd highest priority project upstream of a particular SPP based on cost
4	Construction Priority	Construction planned/occurring soon	Normal priority	Avoiding construction in this area due to concerns such as contaminated soil,
5	CSO Cost Effectiveness	Combined cost effectiveness of projects in CSO	Combined cost effectiveness of projects in CSO basin $/gal	Combined cost effectiveness of projects in CSO basin $/gal reduction
6	Environmental Justice (EJ)	Disadvantage ranking > 4	Disadvantage ranking > 2 and ≤ 4	Disadvantage ranking ≤ 2

The Edison Martha OLS project received the following scores, which made it one of the highest priority projects to come out of the 2023 LTCP Optimization.

Table 3-4: Edison Martha OLS Prioritization Project Score

SPP Overflow Volume Rank	Waterbody Rank	SPP Project Rank	Construction Priority	CSO Cost Effectiveness	Environmental Justice (EJ)	Combined Score
1	1	1	2	1	1	7.1

3.2.2 Feasibility Constraints

The following feasibility constraints were considered when developing the Edison Martha OLS project for the 2023 LTCP Optimization in order to help minimize the cost burden on rate payers while maximizing resident's quality of life in relation to their construction and subsequent operation and maintenance.

- Cost Related Constraints
  - Space Consideration/Land Acquisition
  - Rock Excavation
  - Operations Costs
- Non-Monetary Factors
  - Social Justice

3.2.2.1 Space Considerations/Land Acquisition

Storage structures require a significant footprint to hold millions of gallons of combined wastewater. These structures can be centralized so that a single point collects the target volume, decentralized with many smaller storage facilities, or a combination of both. The City of Buffalo is fully developed, and the public right-of-way is crowded with existing utilities. To build these structures and enable the Authority to operate them in perpetuity, permanent easements would need to be acquired or land would need to be purchased. Alternatively, these structures can be constructed in existing public lands, such as parks.

Because of the fully developed nature of the City of Buffalo, most of the OLS tanks included in the LTCP, including the Edison Martha OLS, are planned to be located under City parks. Constructing the OLSs under the existing parks lands offers several advantages including time and monetary savings by bypassing the majority of land acquisition phase, and typically, following the construction, the land atop the structures can be returned to parkland, often with improvements from the preconstruction state.

The 9.6-acre Roosevelt Playground and the 2.1-acre Lang Weber Park were originally identified as a possible locations for storage within the SPP340 basin. The Lang Weber Park site was quickly eliminated from further consideration when it was determined that "No meaningful amount of storage" could be placed at the site, and all proposed storage for the SPP340 basin moved to the much larger Roosevelt playground site.

3.2.2.2 Rock Excavation

Bedrock is a significant constraint when configuring any underground structures. Most of the City was constructed on Onondaga Limestone, which separates shale formations that formed north and south of the City. It is a hard bedrock that forms outcrops along Lake Erie and in Ontario and is shallow throughout most of the city. Record drawings from previous sewer projects show that bedrock was a concern during construction of the interceptors and tunnels. New storage structures will require considerable effort to build within the rock.

The soils report for the site has now been completed, and as expected, rock excavation will be needed at the Edison Martha OLS site. When constructing the Edison Avenue Storm Relief Sewer, rock was encountered in the area between six to twelve feet below grade. The recent soils investigation

indicates that bedrock encountered at depths between 9.5 to 14 feet below existing grade. Planning for the work will need to consider rock removal methods and their relation to construction costs, construction timelines, and residents' quality of life.

3.2.2.3 Operations Costs

Another constraint that needs to be considered is operations costs. Off-line storage tanks have traditionally been installed so that the hydraulic grade line (HGL) in the tank is lower than the target overflow HGL and pumped back to the system or pumped to an elevated tank for release by gravity at a later time. Both configurations require a significant amount of energy and manpower to operate and maintain the equipment installed in these structures. Selected storage configurations should attempt to minimize operation and maintenance costs by minimizing the use of mechanical equipment. Selected off-line storage sites should utilize existing grade changes within the system to fill and/or drain by gravity to the maximum extent possible. Structure hydraulics should also be optimized for self-cleaning.

The Edison Martha OLS site was selected with this in mind. The diversion structure is planned to be constructed on the Edison Avenue Storm Relief Sewer approximately 420 linear feet upstream of the manhole that joins that sewer to the Kensington Expressway Sewer at Edison Avenue. At the manhole, there is a drop of approximately 17 and a half feet between the two sewers giving the ability to flow by gravity out of the Edison Avenue Storm Relief Sewer to and through the basin and back to the Kensington Expressway Sewer at Edison Avenue at the drop manhole.

3.2.2.4 Non-Monetary Factors

Land acquisition for structures also requires the Authority to be cognizant of environmental justice within the City. Much of the City of Buffalo, particularly the East Buffalo and the West Side neighborhoods, have been historically underserved and have large minority populations. Past public projects, like construction of the Kensington Expressway, divided neighborhoods and displaced families. Implementation of CSO control projects must be aware of these past injustices and find a way to meet the goals of the LTCP while improving the lives of residents.

3.3 Hydraulics Basis-of-Design

3.3.1.1 Hydraulic Model

The updated CSS model created for the LTCP and revised for the 2023 LTCP Optimization was used to determine the key hydraulic elements for this project including the overflow weir elevation and length, the peak flow over the weir and to the basin as well as the elevation that the storage basin would be considered "full". For specific details regarding the development and update of the hydraulic model see the 2014 LTCP, the 2018 Collection System Model – Model Update Report, and the 2023 LTCP Optimization documents previously submitted to NYSDEC.

3.3.1.2 Hydraulic Profile

The preliminary schematic diagram developed for this project is shown in Figure 3-2, below. The elevations noted are based upon the NAVD88 datum. To convert the NAVD88 datum to City Datum, subtract 574.9 feet. To convert the NAVD88 datum to CSS model datum, add 0.55 feet.

The tank "full" elevation has been set to the top of overflow weir elevation at the diversion structure on the Edison Avenue Storm Relief Sewer, and bottom of the basin elevations calculated to give the required storage volume, 2.61 million gallons, using the original 130 ft by 336 ft footprint given in the revised LTCP and the floor slopes necessary to facilitate the cleaning of the basin by the tipping bucket system. Final Design will review the soil boring data to determine if it would be cost effective to modify the depth of

the proposed basin and therefore the footprint, or shift the location of the proposed basin on the site to mitigate the need for rock excavation.

The peak dry weather flow in the Edison Avenue Storm Relief Sewer from the CSS model is expected to be 0.4 mgd. This would generally result in a flow depth of less than 2.5 inches in the 72-inch diameter sewer if it were clean, but sewers are rarely clean and downstream debris can cause upstream backups. To ensure that dry weather flow remains in the relief sewer and is not directed to the storage basin, the proposed elevation of the overflow weir has preliminarily been set at 657.34, five inches above the invert of the pipe at the overflow structure. The "full" level in the tank has also been set at the top of weir elevation of 657.34 to maximize the storage volume of the tank even during small wet weather events.

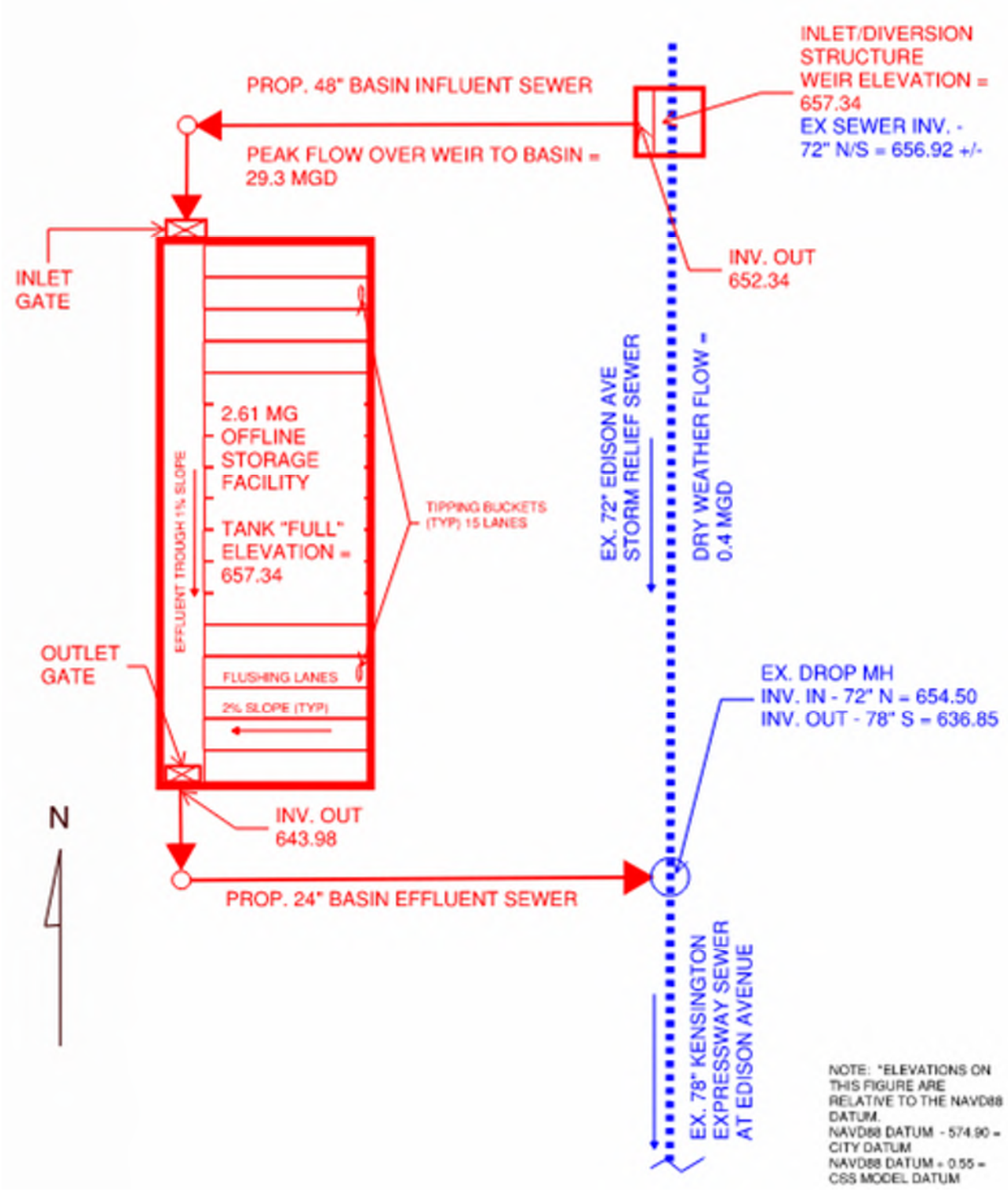


Figure 3-1: Edison Martha OLS Schematic Diagram

3.4 Process/ Mechanical Basis of Design

3.4.1 Governing Codes and Standards

The following codes and standards are applicable to the process mechanical work of the project.

- Guides for the Design of Wastewater Treatment Works. New England Interstate Water Pollution Control Commission (NEIWPCC), Lowell, MA, 2016 ("TRA16").
- Recommended Standards for Wastewater Facilities. Great Lakes – Upper Mississippi River Board of State and Provincial Public Health and Environmental Managers, Health Research, Inc., Health Education Services Division, Albany, NY 2014 ("Ten States Standards").

3.4.2 Inlet and Outlet Sewers

A diversion chamber with a 20 ft long weir will be constructed around the existing 72-inch diameter Edison Avenue Storm Relief Sewer approximately 420 linear feet upstream of the manhole that joins that sewer to the Kensington Expressway Sewer at Edison Avenue. As previously indicated the top of weir elevation for the overflow weir will be set to 5 inches above the invert elevation of the sewer. Based on the existing record drawings of the sewer, this elevation is predicted to be 657.89 feet but will need to be field verified at the time of construction. The current grade at the Diversion Structure location is approximately 672.9 feet, more than 15 ft above the invert of the 72-inch diameter pipe. The crown of the 48-inch tank influent pipe has been preliminarily set at one ft below the elevation of the top of the overflow weir to allow free discharge over the weir and full flow capacity through the pipe until the elevation in the tank prevents this, making the invert of the 48-inch influent pipe 652.34 feet, more than 20 feet below existing grade.

Peak flow over the weir was determined to be 29.3 mgd based on running the CSS model for a typical year simulation. To convey the peak flow through the 48-inch diameter influent pipe, the pipe must be sloped at a minimum of 0.10%. It is not required that the downstream end of the influent pipe maintain a free discharge while filling the tank, so the invert elevation may be set by the slope needed to convey the peak flow rate. Since hydrogen sulfide and other odor compounds are often released from sewage when it undergoes turbulent flow, such as at abrupt elevation drops in the sewer, the final design should consider placing the invert of the inlet pipe as near the bottom of the tank as possible to minimize odor release at the outlet of the pipe. This potential for odor release will need to be weighed against the cost of additional rock excavation to lower the sewer. The Diversion Structure with the drop over the weir to the inlet pipe is also another location where odors might be released and the final design should consider the need for odor mitigation measures at that location as well.

The design criteria given for the tank outlet pipe was that the tank should have the ability to empty within 24 hours after a storm event finalizes. The time to empty will vary depending on storm duration and severity, as well as conditions downstream. Since the tank outlet gate will be dependent upon the water level in the Hazelwood ILS downstream, emptying times will vary. A 24-inch diameter pipe set at a slope of 0.080%, the minimum allowable slope for a pipe of that size, has a full flow capacity of over 4.1 mgd and should therefore have adequate capacity to dewater the 2.61 million gallons in the tank within 24 hours, if conditions allow it. Keeping the discharge pipe at the minimum slope will help minimize any rock excavation that may be necessary.

3.4.3 Storage Tank

The storage tank will have electrically motorized slide gates at the inlet and outlet sewers. Both gates will typically be open to allow any flow that should overtop the weir during a dry weather period due to upstream debris causing flow backups in the sewer to pass through the tank and be returned to the sewer downstream.

The outlet gate should be located such that it is in a seating position when the tank is full, and will have a modulating actuator that is controlled through a real-time-control (RTC) signal received from the Hazelwood ILS Structure based upon the water surface level in that structure. When the level sensor at Hazelwood ILS indicates the water surface level has reached a quarter of a foot at that structure, the outlet gate at Edison OLS will begin to close and continue to close in an incremental fashion in relation to the water surface level recorded at Hazelwood ILS. The outlet gate at Edison Martha OLS will be completely closed when the water surface level at Hazelwood ILS reaches five feet. As the water surface level recedes below the five foot level in the Hazelwood ILS structure, the process will reverse and the Edison Martha OLS outlet gate will begin to incrementally open, releasing the stored sewage to the downstream sewer.

These preliminary controls were calculated in accordance with the 2023 Optimization Memo. The weir depth at the Hazelwood ILS tank is 8.4 ft in relation to the bottom of the tank. Once the water surface level reaches 5 ft in the tank, this corresponds to the tank being approximately 60% full. At this point, the Edison Martha OLS tank will begin retaining water. The control logic will be further configured during Final Design.

The inlet gate which will be located such that it will be in a seating position when the level in the upstream sewer exceeds the level in the tank, to prevent the tank from over filling should the upstream sewer surcharge. The inlet gate will also have a modulating actuator that will be activated through a real-time-control (RTC) signal received when the water level in the tank reaches a predetermined level and will continue to close proportionally in relation to the level until reaching full closure when the level reaches the desired max water surface in the tank, which will match the top of weir elevation in the Diversion Structure. This elevation has tentatively been set at 657.34 ft. based on the top of weir elevation being 5 inches above the invert of the sewer at the connection point and the invert determined from the sewer record drawings. The existing sewer invert elevation will need to be confirmed at the time of construction. The storage tank will be constructed with a minimum 2 feet freeboard above this max water surface, and any additional height required for operation of the tipping bucket cleaning system to function properly.

The storage tank will be configured with a series of tipping buckets along the east side for flushing any debris remaining in the bottom of the tank once it has been dewatered. Tipping buckets are a low energy input system consisting of containers referred to as “buckets” that are located near or above the max water surface and are suspended from pivot points on each side and water lines for filling the containers. When empty, the weight of the “buckets” keeps them upright so that they can be filled from the top. As the buckets are filled, the center of gravity is altered, causing the buckets to tip and spill their contents creating a wall of water that then travels down the wall of the tank and across the floor carrying any debris in its path with it. Typically, the only power inputs to this type of system are for solenoid valves that control the water flow to each bucket and the power to the level sensors in the tank that provide the “ready to flush” signal when the basin has been dewatered after an event and the limit switches that provide indication for when the “buckets” have tipped, releasing their contents and flushing the area below. For this system to function as intended, the tank will need to be constructed with a sloped bottom and short “training walls” to contain the water from each bucket within the “lane” it is intended to clean. This water will travel down individual flushing lanes for each bucket, from east to west where a recessed trough will direct the flushing water and debris to the outlet pipe. The bottom slab of the tank will be sloped at 2% from east to west for the flushing lanes. Max water depth at the upstream (east) side of the tank will be 7 feet, increasing to 9.5 feet at the end of the flushing lanes. The collection trough along the western side of the tank will be recessed 0.5 ft. at the north end to prevent splash back into the flushing lane and be sloped at 1% from north to south so that debris does not collect in the trough. The reason the tank has been configured to flush to the west instead of the east, which would appear to be illogical as it is the opposite orientation would allow shortening the inlet and outlet sewers, is because each of the tipping buckets will require an access point in the top of the tank above it which conflicts with the park

use plan of having an open grassy playing field area in the area where the tipping buckets would be located otherwise.

3.4.4 Utility Room/Building

Since the water lines to fill the tipping buckets will be connected to a sewage storage tank, the potable water source will need to be provided with backflow protection. Backflow protection devices typically cannot be installed below grade, so a small above grade utility building/room will be needed to house the backflow preventer. This Utility Building should also be sized to house the water meter, flushing system solenoid valve manifold for the tipping bucket system along with the other power and control equipment for the tipping buckets, gates and level sensors. Through preliminary discussions with the Parks Department, it has been determined that their preference is to provide the space we need for this utility building/room within the existing park Field House versus having another separate above grade structure constructed on site.

3.4.5 Site Waterline

Because the Parks Department desires the utility room to be located in the existing Field House on the east side of the Park, and already has plans to install a new 6-inch diameter site waterline from the 8-inch diameter watermain at the end of Roosevelt Avenue to the Field House for their proposed Splash Pad, the tentative plan is to tie into this new 6" water line in the Field House, provide separate backflow preventer and meter to isolate the tipping bucket feed from the splash pad feed before the tipping bucket solenoid valve manifold. The 6-inch diameter water line should be able to provide a minimum of 400 gpm of potable water to fill the tipping buckets while the pressure at the connection to the 8-inch diameter main remains above 40 psi. Filling the tipping buckets to flush the tank can be done overnight or outside of splash pad operation hours. This 6-inch diameter waterline will supply water to a flushing water manifold consisting of a 2-inch diameter pipe with a solenoid valve for each tipping bucket. These 2" water supply lines would be run from the Field House to the east side of the basin through a buried casing pipe or pipes. The solenoid valves would be activated to fill the tipping buckets to release in sequential order from the north to the south of the basin. It is expected that the fill time for each bucket would be less than 15 minutes in duration, resulting in a flushing duration of under 4 hours complete.

3.5 Cost Estimate

The opinion of probable total project costs for the recommended alternative are summarized in the Table 3-3 below and are presented in 3rd Quarter 2030 Dollars. Current (3rd Quarter 2024) construction costs were escalated to the presented dollars to represent the costs at the midpoint of construction timeframe. Note also that all Engineering Costs have been escalated to a timeframe for when they will be incurred. Detailed Cost Estimates are included in Appendix G.

The opinion of probable costs developed as part of this report are based on equipment manufacturer quotations, budgetary estimates for other, similar construction projects, and Arcadis experience. The costs include line items for construction work (labor, materials, and equipment), Contractor's overhead and profit, costs associated with the General Conditions (i.e. bonds, insurance, and mobilization), engineering design and construction services, and a 35 percent contingency for changes or refinement to the Project scope during the design phase. A dedicated line item for a contingency allowance is not included at this time but is anticipated to be included as the project progresses toward construction.

The information compiled in the probable costs is consistent with an AACE International Class 4 estimate where the Project definition and engineering is up to 30 percent complete. The typical purpose of this level of estimate is for concept screening. AACE guidelines indicate that that Class 4 estimates have typical accuracy ranges on the low side of -10 to -20 percent and on the high side between +20 to +30 percent.

This range is based on the technical and construction staging complexity of the project, availability of accurate reference information, and inclusion of appropriate contingency factors to represent Work not yet defined.

Table 3-5: Opinion of Probable Total Project Cost

Project	Opinion of Total Project Cost
CSO053_5.2 Edison Martha Offline Storage (OLS) Tank	$84,500,000

3.6 Project Schedule

The Authority desires to begin construction of the Edison Martha OLS facility in June of 2027 and complete startup and commissioning for operation by May of 2033. To accomplish these milestone objectives, a scope of work has been developed by the Authority's Program Management team to produce preliminary design documents and begin the process of securing funding to build the Edison Martha OLS. The preliminary design document will establish the basis of design for the OLS and will be used to procure an engineering consultant to take the 30% design to the completion of bidding documents. The Program Management team will support the Authority in overseeing the retained consultant and the ensuing construction and startup and commissioning processes.

Table 3-6: Anticipated Project Schedule

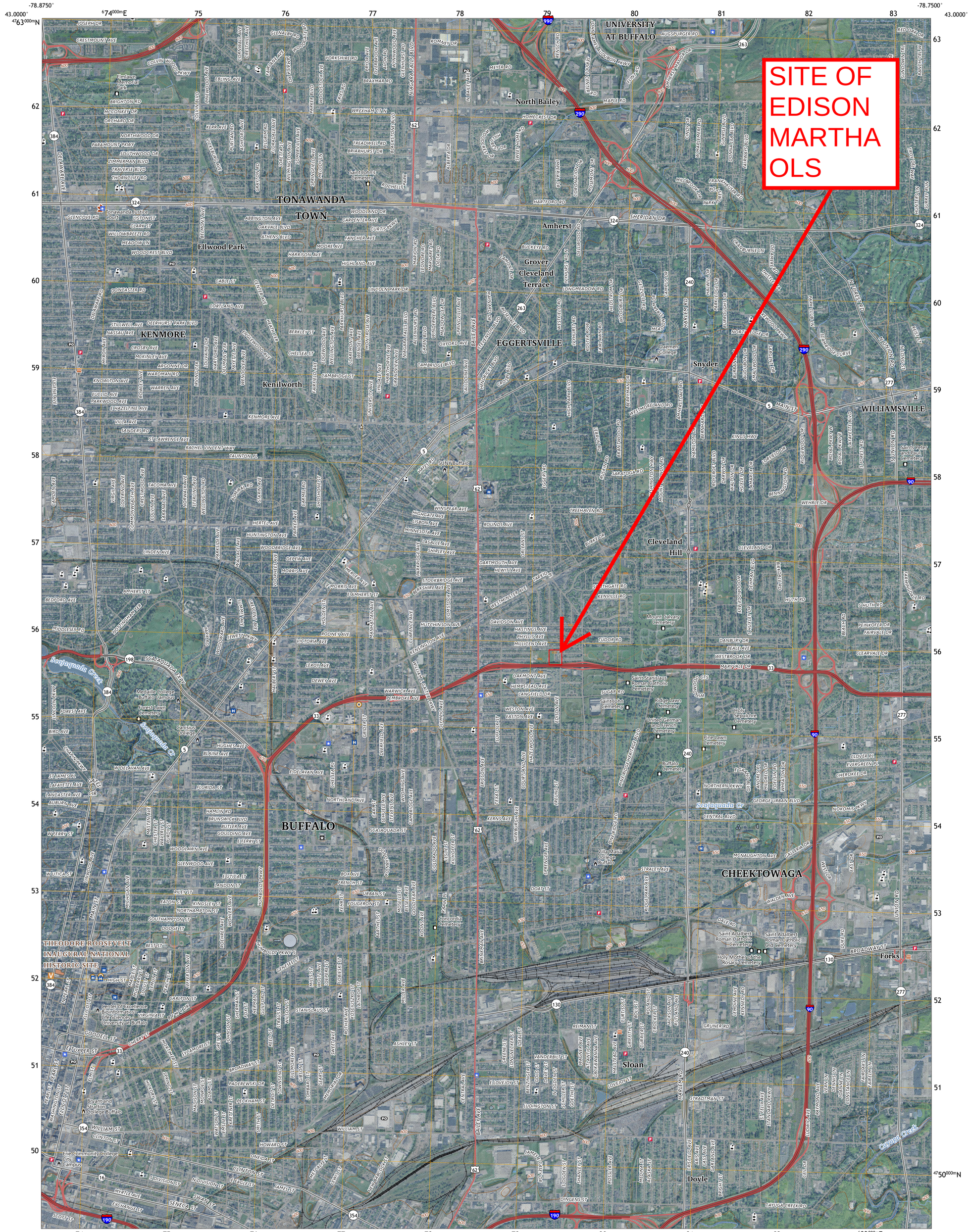
Description	Anticipated Completion Date
Design Completion	Winter 2026
Regulatory Review	Spring 2027
Bidding	Spring 2027
Construction Start Date	Summer 2027
Construction End Date	Spring 2033

APPENDIX A: USGS Buffalo NE Quadrangle Map, New York-Erie County, 7.5 Minute Topo

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map
OnDemand Topo

BUFFALO NE QUADRANGLE
NEW YORK - ERIE COUNTY
7.5-MINUTE TOPO

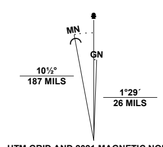


Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid:Universal Transverse Mercator, Zone 17T

Data is provided by The National Map (TNM), is the best available at the time of map generation, and includes data content from supporting themes of Elevation, Hydrography, Geographic Names, Boundaries, Transportation, Structures, Land Cover, and Orthoimagery. Refer to associated Federal Geographic Data Committee (FGDC) Metadata for additional source data information.

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands. Temporal changes may have occurred since these data were collected and some data may no longer represent actual surface conditions.

Learn About The National Map: https://nationalmap.gov



UTM GRID AND 2021 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
PH
Grid Zone Designation
17T

SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
CONTOUR SMOOTHNESS = High

QUADRANGLE LOCATION

Tonawanda West	Tonawanda East	Clarence Center
Buffalo NW	Buffalo NE	Lancaster
Buffalo SE OE W	Buffalo SE	Orchard Park

ADJOINING QUADRANGLES

ROAD CLASSIFICATION

Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

BUFFALO NE, NY
2024

APPENDIX B: USDA Soil Report for Proposed Project Site

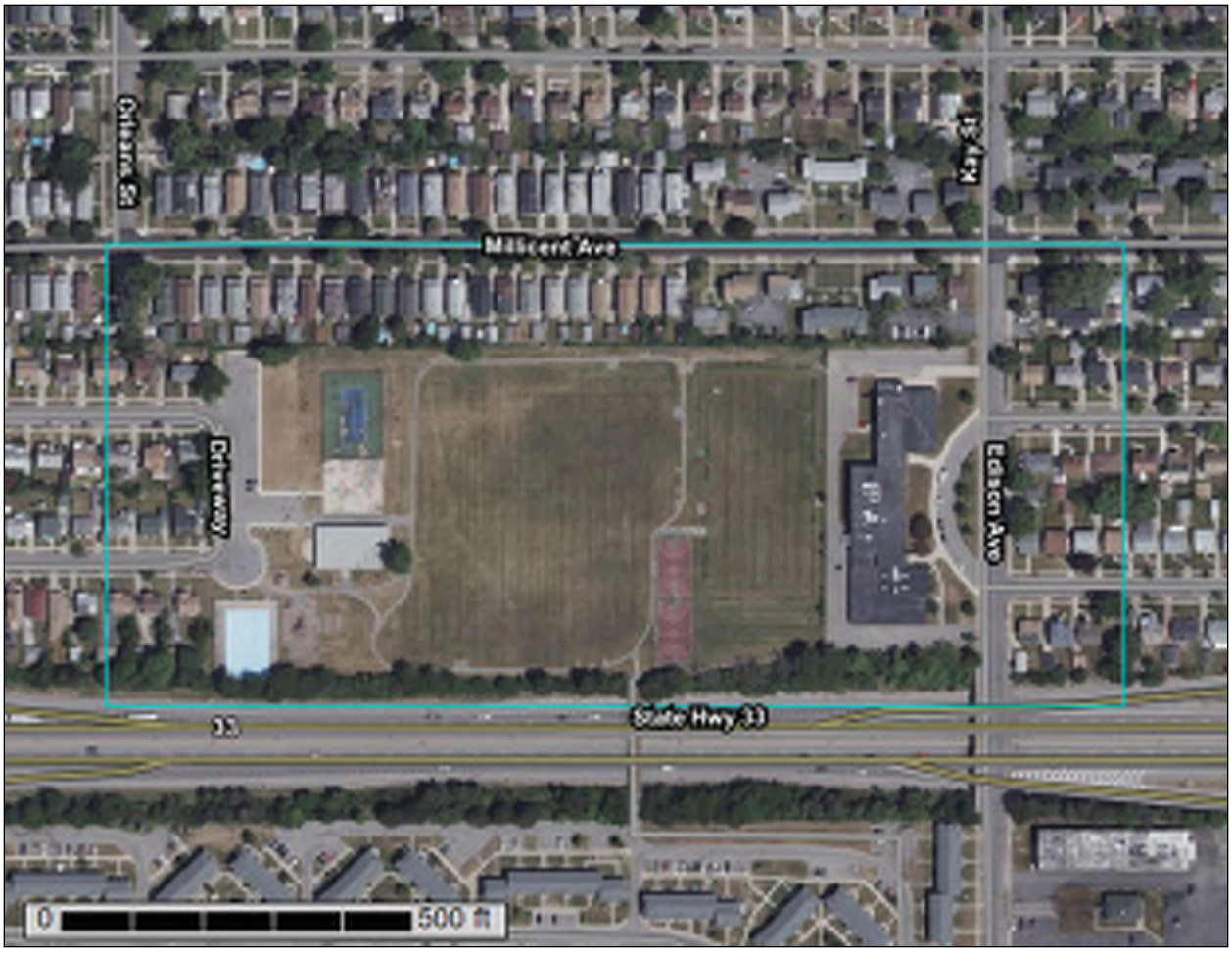
United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Erie County, New York



May 8, 2024

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map (Edison Marth OLS Proposed Site)

Map Scale: 1:2,420 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 35 70 140 210

Feet: 0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Erie County, New York
Survey Area Data: Version 23, Sep 5, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 4, 2020—Aug 15, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend (Edison Marth OLS Proposed Site)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Ug	Urban land-Cayuga complex	6.2	28.5%
Uh	Urban land-Churchville complex	0.0	0.0%
UrA	Urban land-Lima complex, 1 to 6 percent slopes	15.6	71.5%
Us	Urban land-Niagara complex	0.0	0.1%
Totals for Area of Interest		**21.8**	**100.0%**

Map Unit Descriptions (Edison Marth OLS Proposed Site)

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Erie County, New York

Ug—Urban land-Cayuga complex

Map Unit Setting

National map unit symbol: 9rq7
Elevation: 570 to 710 feet
Mean annual precipitation: 36 to 48 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 115 to 195 days
Farmland classification: Not prime farmland

Map Unit Composition

Urban land: 60 percent
Cayuga and similar soils: 30 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Urban Land

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8s
Hydric soil rating: Unranked

Description of Cayuga

Setting

Landform: Till plains, lake plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest, tread
Down-slope shape: Concave
Across-slope shape: Convex
Parent material: Clayey glaciolacustrine deposits over loamy till derived from limestone, dolomite, sandstone, or shale

Typical profile

H1 - 0 to 10 inches: silt loam
H2 - 10 to 26 inches: silty clay
H3 - 26 to 60 inches: gravelly loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 18 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Available water supply, 0 to 60 inches: Moderate (about 8.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2w

Hydrologic Soil Group: D
Ecological site: F101XY009NY - Moist Lake Plain
Hydric soil rating: No

Minor Components

Collamer
Percent of map unit: 4 percent
Hydric soil rating: No

Udorthents
Percent of map unit: 2 percent
Hydric soil rating: No

Canandaigua
Percent of map unit: 2 percent
Landform: Depressions
Hydric soil rating: Yes

Unnamed soils
Percent of map unit: 2 percent
Hydric soil rating: No

Uh—Urban land-Churchville complex

Map Unit Setting
National map unit symbol: 9rq9
Elevation: 570 to 720 feet
Mean annual precipitation: 36 to 48 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 115 to 195 days
Farmland classification: Not prime farmland

Map Unit Composition
Urban land: 65 percent
Churchville and similar soils: 25 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Churchville

Setting
Landform: Till plains, lake plains
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope, tread
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Clayey glaciolacustrine deposits over loamy till

Typical profile
H1 - 0 to 11 inches: silt loam

H2 - 11 to 26 inches: silty clay
H3 - 26 to 60 inches: gravelly loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 6 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Available water supply, 0 to 60 inches: Moderate (about 8.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: C/D
Ecological site: F101XY009NY - Moist Lake Plain
Hydric soil rating: No

Minor Components

Niagara

Percent of map unit: 3 percent
Hydric soil rating: No

Ovid

Percent of map unit: 3 percent
Hydric soil rating: No

Lakemont

Percent of map unit: 2 percent
Landform: Depressions
Hydric soil rating: Yes

Udorthents

Percent of map unit: 2 percent
Hydric soil rating: No

UrA—Urban land-Lima complex, 1 to 6 percent slopes

Map Unit Setting

National map unit symbol: 2w3k1
Elevation: 590 to 720 feet
Mean annual precipitation: 31 to 57 inches
Mean annual air temperature: 41 to 50 degrees F
Frost-free period: 100 to 190 days
Farmland classification: Not prime farmland

Map Unit Composition

Urban: 60 percent
Lima and similar soils: 30 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Urban

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8s
Hydric soil rating: Unranked

Description of Lima

Setting

Landform: Till plains, ridges, drumlins
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Crest
Down-slope shape: Linear
Across-slope shape: Convex
Parent material: Calcareous loamy lodgment till derived from limestone, sandstone, and shale

Typical profile

Ap - 0 to 9 inches: loam
Bt/E - 9 to 12 inches: loam
Bt1 - 12 to 16 inches: loam
Bt2 - 16 to 25 inches: gravelly loam
C - 25 to 79 inches: gravelly loam

Properties and qualities

Slope: 1 to 6 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately high (0.00 to 1.42 in/hr)
Depth to water table: About 18 to 24 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Available water supply, 0 to 60 inches: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: B/D
Ecological site: F101XY013NY - Moist Till
Hydric soil rating: No

Minor Components

Honeoye

Percent of map unit: 6 percent
Landform: Ridges, till plains, drumlins

Landform position (two-dimensional): Summit, shoulder, backslope
Landform position (three-dimensional): Crest, side slope
Down-slope shape: Linear, convex
Across-slope shape: Convex
Hydric soil rating: No

Appleton

Percent of map unit: 3 percent
Landform: Ridges, drumlins, till plains
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

Lyons

Percent of map unit: 1 percent
Landform: Drainageways, depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

Us—Urban land-Niagara complex

Map Unit Setting

National map unit symbol: 9rqh
Elevation: 560 to 670 feet
Mean annual precipitation: 36 to 48 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 115 to 195 days
Farmland classification: Not prime farmland

Map Unit Composition

Urban land: 60 percent
Niagara and similar soils: 30 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Urban Land

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8s
Hydric soil rating: Unranked

Description of Niagara

Setting

Landform: Lake plains
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Tread
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Silty and clayey glaciolacustrine deposits

Typical profile

H1 - 0 to 11 inches: silt loam
H2 - 11 to 27 inches: silt loam
H3 - 27 to 72 inches: silt loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: About 6 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Available water supply, 0 to 60 inches: High (about 10.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: C/D
Ecological site: F101XY009NY - Moist Lake Plain
Hydric soil rating: No

Minor Components

Udorthents

Percent of map unit: 3 percent
Hydric soil rating: No

Raynham

Percent of map unit: 3 percent
Hydric soil rating: No

Swormville

Percent of map unit: 2 percent
Hydric soil rating: No

Canandaigua

Percent of map unit: 2 percent
Landform: Depressions
Hydric soil rating: Yes

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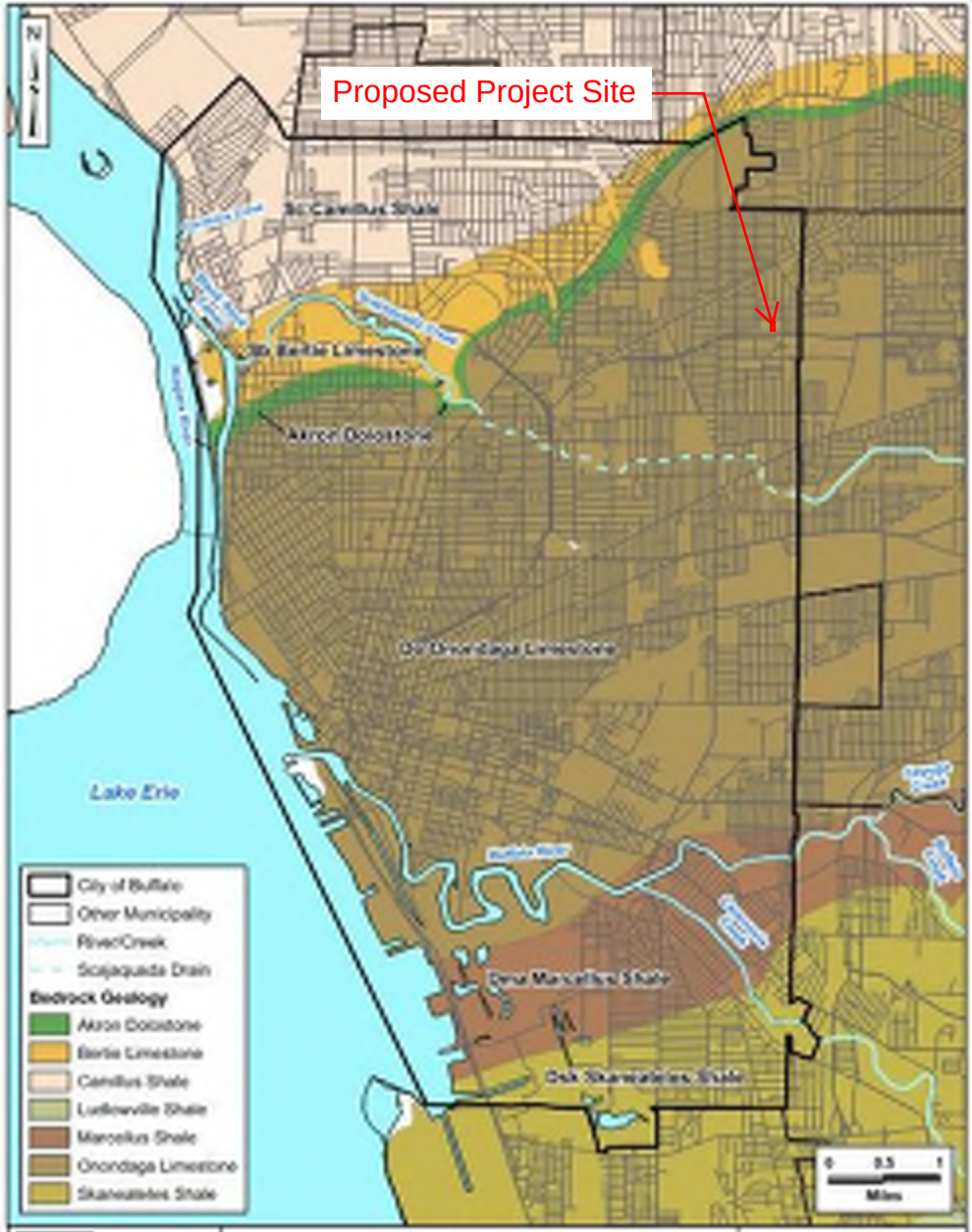
APPENDIX C: Figure 2-2 from 2012 Buffalo Sewer Authority LTCP Update.



BUFFALO SEWER AUTHORITY
Long Term Control Plan Update

FIGURE 2-2
BEDROCK GEOLOGY

APPENDIX D: United States Fish and Wildlife Service's Information for Planning and Conservation (IPaC) Database Results

IPaC **U.S. Fish & Wildlife Service**

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

NOT FOR CONSULTATION

Location

Erie County, New York

Local office

New York Ecological Services Field Office

(607) 753-9334
(607) 753-9699
fw5es_nyfo@fws.gov

3817 Luker Road
Cortland, NY 13045-9385

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species[1] and their critical habitats are managed by the Ecological Services Program of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries[2]).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact NOAA Fisheries for species under their jurisdiction.

---

1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the listing status page for more information. IPaC only shows species that are regulated by USFWS (see FAQ).

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2. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Mammals

NAME	STATUS
Northern Long-eared Bat Myotis septentrionalis Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9045	Endangered
Tricolored Bat Perimyotis subflavus Wherever found This species only needs to be considered if the following condition applies: • This species only needs to be considered if the project includes wind turbine operations. No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/10515	Proposed Endangered

Clams

NAME	STATUS
Salamander Mussel Simpsonaias ambigua Wherever found There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/6208	Proposed Endangered

Insects

NAME	STATUS
Monarch Butterfly Danaus plexippus Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9743	Candidate

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Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

Bald & Golden Eagles

Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act[1] and the Migratory Bird Treaty Act[2].

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats[3], should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "Supplemental Information on Migratory Birds and Eagles".

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

There are likely bald eagles present in your project area. For additional information on bald eagles, refer to Bald Eagle Nesting and Sensitivity to Human Activity

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

NOT FOR CONSULTATION

NAME	BREEDING SEASON
Bald Eagle Haliaeetus leucocephalus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Dec 1 to Aug 31
Golden Eagle Aquila chrysaetos This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1680	Breeds Jan 1 to Aug 31

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week

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12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.

3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

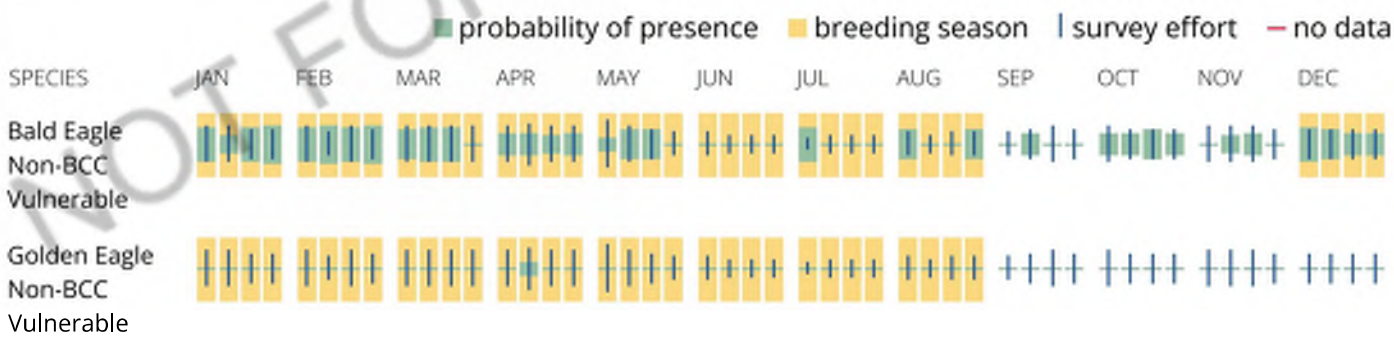
Breeding Season (▪)
Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (–)
A week is marked as having no data if there were no survey events for that week.

Survey Timeframe
Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



NOT FOR CONSULTATION

What does IPaC use to generate the potential presence of bald and golden eagles in my specified location?

The potential for eagle presence is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply). To see a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What does IPaC use to generate the probability of presence graphs of bald and golden eagles in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur. Please contact your local Fish and Wildlife Service Field Office if you have questions.

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Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats[3] should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "Supplemental Information on Migratory Birds and Eagles".

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-

golden-eagles-may-occur-project-action

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

NOT FOR CONSULTATION

NAME	BREEDING SEASON
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Dec 1 to Aug 31
Belted Kingfisher *Megaceryle alcyon* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds Mar 15 to Jul 25
Black-billed Cuckoo *Coccyzus erythropthalmus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9399	Breeds May 15 to Oct 10
Blue-winged Warbler *Vermivora cyanoptera* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds May 1 to Jun 30
Bobolink *Dolichonyx oryzivorus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 20 to Jul 31

Canada Warbler Cardellina canadensis — Breeds May 20 to Aug 10
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Cerulean Warbler Setophaga cerulea — Breeds Apr 20 to Jul 20
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/2974

Chimney Swift Chaetura pelagica — Breeds Mar 15 to Aug 25
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Eastern Meadowlark Sturnella magna — Breeds Apr 25 to Aug 31
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

Eastern Whip-poor-will Antrostomus vociferus — Breeds May 1 to Aug 20
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Evening Grosbeak Coccothraustes vespertinus — Breeds May 15 to Aug 10
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Golden Eagle Aquila chrysaetos — Breeds Jan 1 to Aug 31
This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.
https://ecos.fws.gov/ecp/species/1680

Golden-winged Warbler Vermivora chrysoptera — Breeds May 1 to Jul 20
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/8745

Lesser Yellowlegs Tringa flavipes — Breeds elsewhere
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/9679

NOT FOR CONSULTATION

Pectoral Sandpiper Calidris melanotos This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Prairie Warbler Setophaga discolor This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 1 to Jul 31
Red-headed Woodpecker Melanerpes erythrocephalus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Sep 10
Rose-breasted Grosbeak Pheucticus ludovicianus This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds May 15 to Jul 31
Ruddy Turnstone Arenaria interpres morinella This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds elsewhere
Semipalmated Sandpiper Calidris pusilla This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds elsewhere
Short-billed Dowitcher Limnodromus griseus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9480	Breeds elsewhere
Upland Sandpiper Bartramia longicauda This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9294	Breeds May 1 to Aug 31
Wood Thrush Hylocichla mustelina This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Aug 31

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Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read

"Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

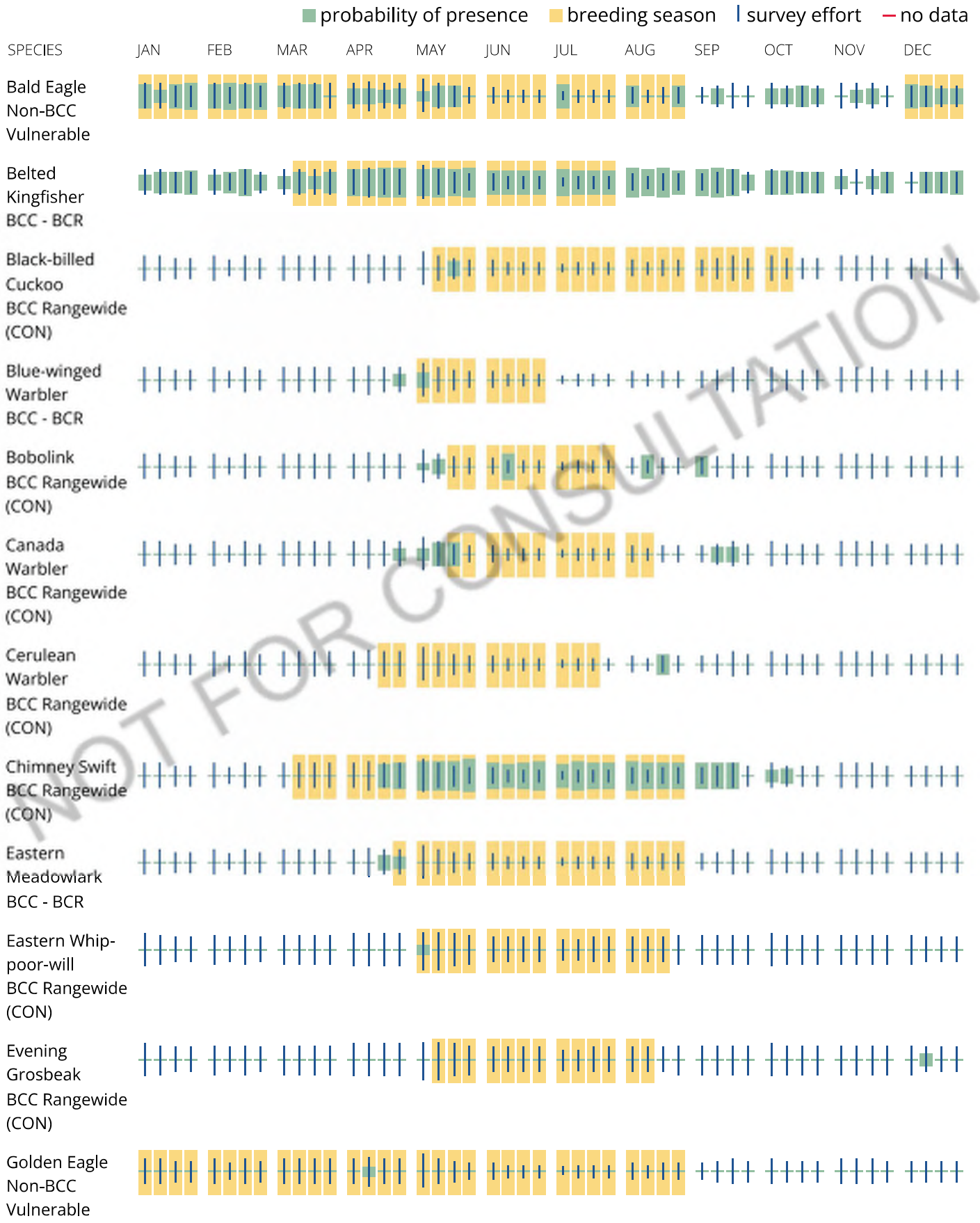
No Data (–)

A week is marked as having no data if there were no survey events for that week.

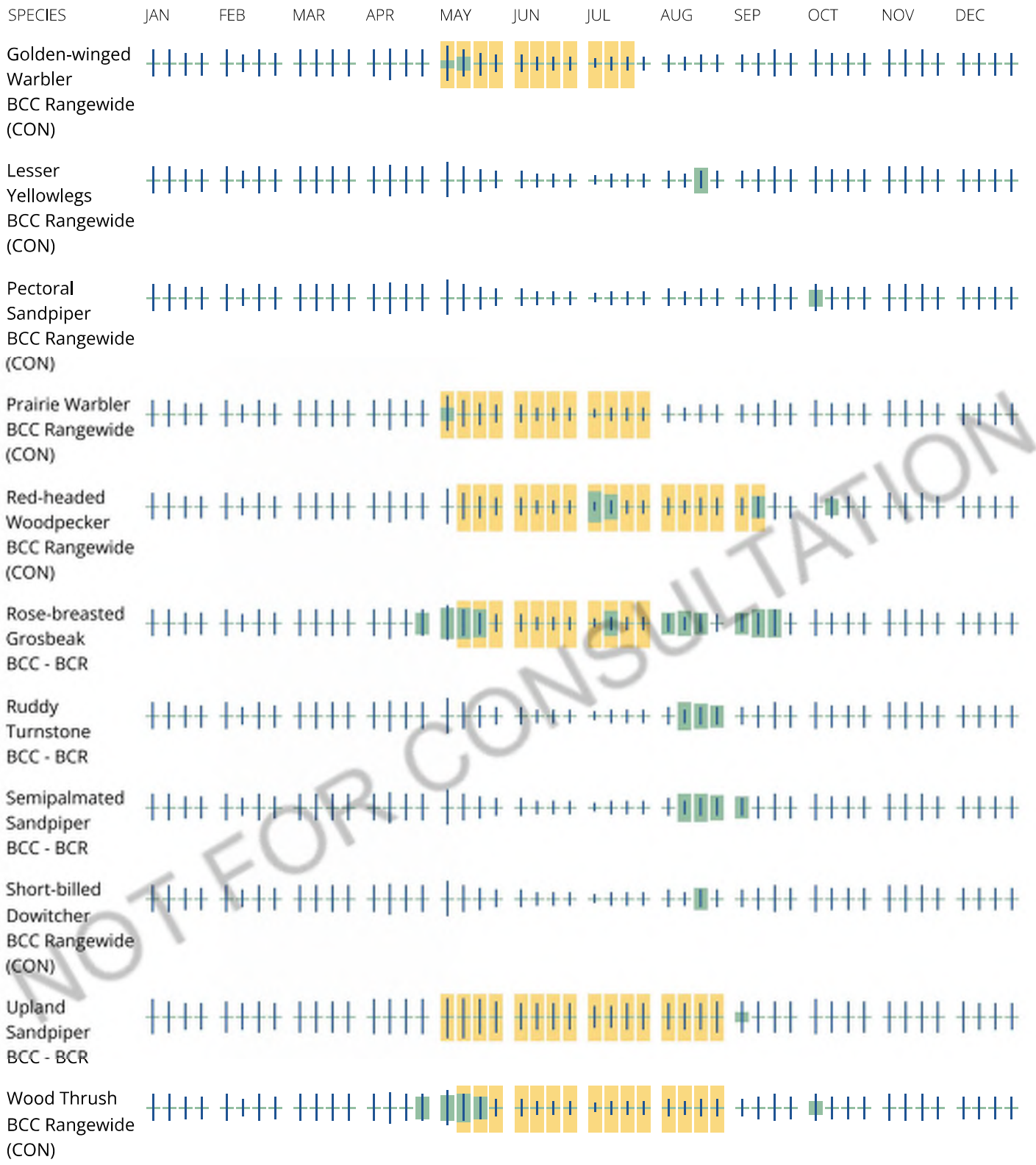
Survey Timeframe

NOT FOR CONSULTATION

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



NOT FOR CONSULTATION



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Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure.

To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the Avian Knowledge Network (AKN). This data is derived from a growing collection of survey, banding, and citizen science datasets.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the RAIL Tool and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in

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offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the Diving Bird Study and the nanotag studies or contact Caleb Spiegel or Pam Loring.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

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Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

This location did not intersect any wetlands mapped by NWI.

NOTE: This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

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The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

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APPENDIX E: FEMA National Flood Hazard Layer FIRMette for Proposed Project Site

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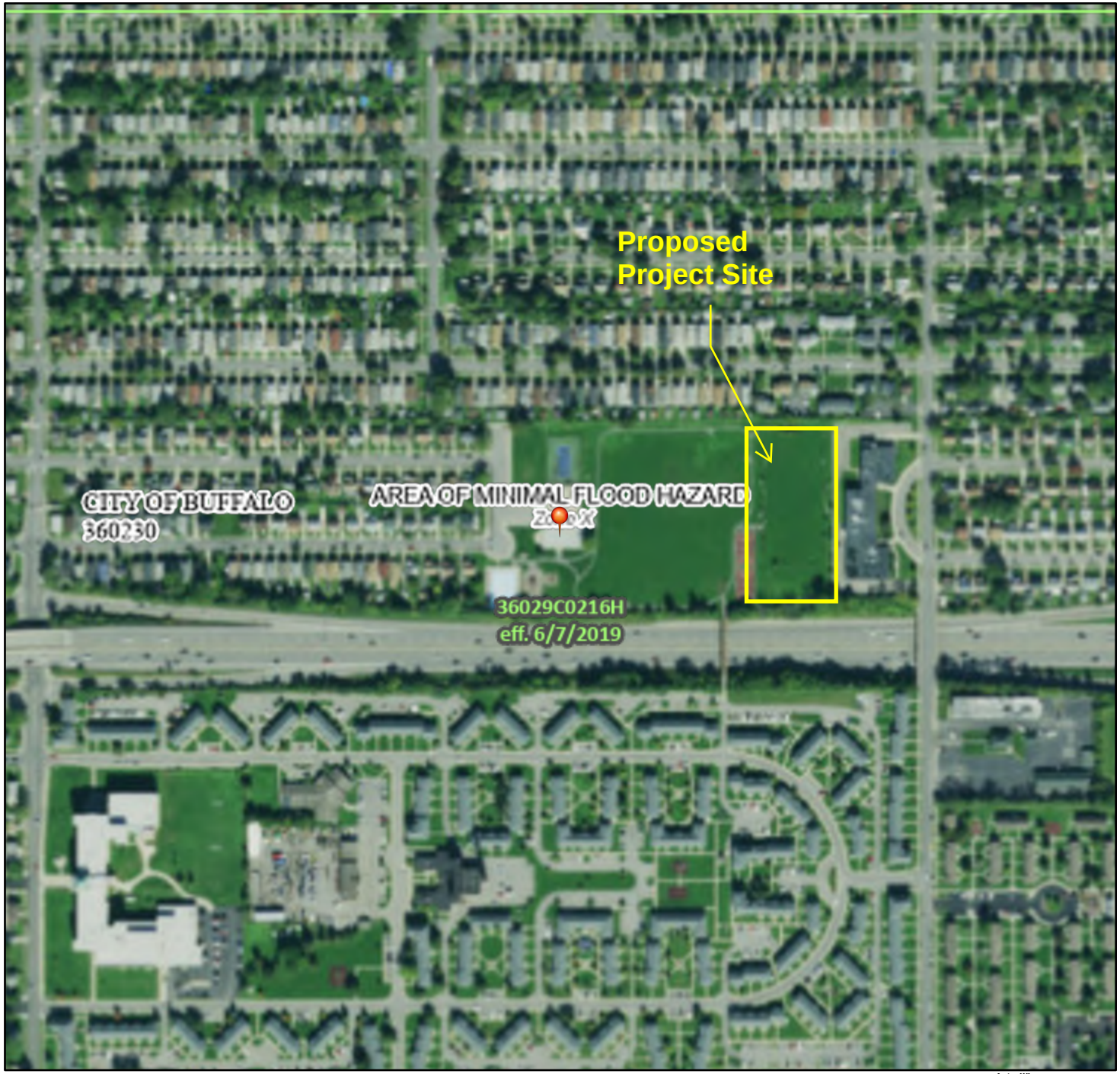
FEMA



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APPENDIX F: NYSDEC Administrative Order CWA-02-2014-3033 and SPDES Permit

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 2

IN THE MATTER OF:

Buffalo Sewer Authority
1038 City Hall
Buffalo, New York 14202-3310

SPDES Permit No. NY0028410

Respondent

Amended Administrative Order for Compliance pursuant to Sections 308(a) and 309(a) of the Clean Water Act, 33 U.S.C. §§ 1318(a) and 1319(a).

AMENDED

ADMINISTRATIVE ORDER

CWA-02-2014-3033

(Amends CWA-02-2012-3024)

This Amended Administrative Order CWA-02-2014-3033 amends Administrative Order CWA-02-2012-3024 to include: developments in the enforcement action since the March 9, 2012 effective date of Administrative Order CWA-02-2012-3024; updated General Provisions to reflect current practice; and to correct a date in the Findings of Fact and Findings of Violation. The Amendments to Administrative Order CWA-02-2012-3024 reflect the developments leading up to and including the approval of Buffalo Sewer Authority's Combined Sewer Overflow Long Term Control Plan and associated implementation schedule by the United States Environmental Protection Agency and the New York State Department of Environmental Conservation. Amended provisions can be found in Paragraphs 4, 11 and 13-20 of the Findings of Fact and Findings of Violation, Paragraphs 2.a., 2.f., 3, 3.a., 3.d.ii of the Ordered Provisions and Paragraphs 1-8 of the General Provisions.

STATUTORY AUTHORITY

The following Findings of Violation and Order for Compliance ("Order") are made and issued pursuant to Sections 308(a) and 309(a) of the Clean Water Act ("CWA"), 33 U.S.C. §§ 1318(a) and 1319(a). This Authority has been delegated by the Administrator of the United States Environmental Protection Agency ("EPA") to the Regional Administrator, EPA Region 2 and further delegated to the Director of the Division of Enforcement and Compliance Assistance, Region 2, EPA.

1. Section 301(a) of the CWA, 33 U.S.C. § 1311 (a), makes it unlawful for any person to discharge any pollutant from a point source to waters of the United States, except, inter alia, with the authorization of, and in compliance with, a National Pollutant Discharge Elimination System ("NPDES") permit issued pursuant to Section 402 of the CWA, 33 U.S.C. § 1342.

2. Section 402 of the CWA, 33 U.S.C. § 1342, authorizes the Administrator of EPA to issue a NPDES permit for the discharge of any pollutant, or combination of pollutants subject to certain requirements of the CWA and conditions which the Administrator determines are necessary. The New York State Department of Environmental Conservation ("NYSDEC") is the agency with the authority to administer the federal NPDES program in New York pursuant to Section 402 of the CWA, 33 U.S.C. § 1342. EPA maintains concurrent enforcement

authority with authorized states for violations of the CWA. Additionally, under the authority granted to the NYSDEC by the EPA under Section 402(b) of the CWA, 33 U.S.C. § 1342(b), a State Pollutant Discharge Elimination System ("SPDES") permit is required to be issued to facilities by the NYSDEC for the discharge of pollutants from said facilities from a point source to a navigable water of the United States.

3. Section 308 of the Act, 33 U.S.C. § 1318, provides, in relevant part, that the Administrator of EPA may require the owner or operator of any point source to, among other things: establish and maintain such records; make such reports; install, use and monitor such equipment; sample such effluents; and provide such other information as may reasonably be required in order to carry out Section 402 of the Act, 33 U.S.C. § 1342.

4. "Person" is defined by Section 502(5) of the CWA, 33 U.S.C. § 1362(5), to include an individual, corporation, partnership, association or municipality.

5. "Municipality" is defined by Section 502(4) of the CWA, 33 U.S.C. § 1362(4), to include among other things, a city, town, borough, county, parish, district, associations, or other public body created by or pursuant to State law and having jurisdiction over disposal of sewage, industrial wastes, or other wastes.

6. "Pollutant" is defined by Section 502(6) of the CWA, 33 U.S.C. § 1362(6), to include among other things, solid waste, dredged spoil, rock, sand, cellar dirt, sewage, sewage sludge and industrial, municipal and agricultural waste discharged into water.

7. "Point source" is defined by Section 502(14) of the CWA, 33 U.S.C. § 1362(14), to include any discernible, confined and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, from which pollutants are or may be discharged.

8. "Navigable waters" is defined by Section 502(7) of the CWA, 33 U.S.C. § 1362(7), to include the waters of the United States.

9. "Discharge of a pollutant" is defined by Section 502(12) of the CWA, 33 U.S.C. § 1362(12), to include any addition of any pollutant to navigable waters from any point source.

10. Section 402(q) of the CWA, 33 U.S.C. § 1342(q), provides that each permit, order, or decree issued pursuant to the chapter after December 21, 2000, for a discharge from a municipal combined storm and sanitary sewer shall conform to the Combined Sewer Overflow Policy ("CSO Policy") signed by the Administrator on April 11, 1994.

11. The CSO Policy states that "permittees with CSOs are responsible for developing and implementing long-term CSO control plans that will ultimately result in compliance with the requirements of the CWA."

12. Section 309(a) of the CWA, 33 U.S.C. § 1319(a), authorizes the Administrator to issue an order requiring compliance or commence a civil action when any person is found to be in violation of Section 301 of the CWA, 33 U.S.C. § 1311, or in violation of any permit condition or limitation in a permit issued under Section 402 of the CWA, 33 U.S.C. § 1342.

FINDINGS OF FACT AND FINDINGS OF VIOLATION

1. The Buffalo Sewer Authority ("BSA" or "Respondent"), is a public benefit municipal corporation, organized and existing under the laws of the State of New York, and located in Buffalo, New York. BSA has authority, control over and operates the sewer system within its boundaries, including, but not limited to the combined sewer system, the sanitary sewer system, and the related wastewater treatment plant.

2. BSA is a "person" and "municipality" within the meaning of Sections 502(5) and 502(4) of the CWA, 33 U.S.C. §§ 1362(5) and 1362(4).

3. BSA has discharged and continues to discharge "pollutants" within the meaning of Sections 502(6) and 502(12) of the CWA, 33 U.S.C. §§ 1362(6) and 1362(12), from the Buffalo wastewater treatment plant and sewer system through "point sources" within the meaning of Section 502(14) of the CWA, 33 U.S.C. § 1362(14) into the Niagara River, Black Rock Canal, Erie Basin, Buffalo River, Scajaquada Creek, Cazenovia Creek, and Cornelius Creek, each of which is a "navigable water" within the meaning of Section 502(7) of the CWA, 33 U.S.C. § 1362(7).

4. The NYSDEC, under the authority of Section 402(b) of the CWA, 33 U.S.C. § 1342(b), issued SPDES Permit No. NY0028410 (the "SPDES Permit") to BSA, with an effective date of July 1, 1999. The NYSDEC renewed the SPDES permit on February 3, 2004, on June 25, 2009, and again on December 31, 2013. It is scheduled to expire on June 30, 2019. The SPDES Permit authorizes BSA to discharge pollutants from a single wastewater treatment plant outfall and fifty-eight (58) combined sewer overflow structures ("CSO structures") at locations specified in the SPDES Permit, subject to certain limitations and conditions.

5. The Schedule of Compliance in the July 1, 1999 SPDES Permit provided in pertinent part as follows:

   "Development of Abatement Plan for Combined Sewer Overflow

   The permittee shall develop a combined sewer overflow abatement facility plan in accordance with the Phase I Long Term CSO Control Plan requirements specified in the USEPA Combined Sewer Overflow Policy (Federal Register Vo. 59, No. 75 4/19/94).

   This Abatement Plan shall contain all of the Long Term Plan elements specified in Section II C of the National CSO Policy, and further delineated in the USEPA document, "Combined Sewer Overflows, Guidance for Long-Term Control Plan" dated September, 1995. The permittee may choose either the "Presumption" or the "Demonstration" approach for the evaluation of alternatives.

   The Abatement Plan should integrate the pollutant reduction achievable by the implementation of the CSO Best Management Practices (BMPs) as required on pages 19-21 of this permit into the long term control plan. The Department will consider work or studies already completed or currently in progress for integration into the long term control plan.

   The permittee shall submit a completed CSO Abatement Facility Plan including a schedule of implementation to the Department.

The permittee shall report to the NYSDEC progress/status of plan development in intervals not to exceed 90 days.

Upon approval of the CSO Abatement Facility Plan, the NYSDEC will propose a SPDES permit modification, pursuant to Uniform Procedures – 6 NYCRR – Part 621, to include the schedule of implementation."

6. The SPDES Permit was modified October 2, 2001 to, among other changes, modify the deadline for submittal of a CSO Abatement Plan (hereinafter either "Abatement Plan," "combined sewer overflow abatement facility plan," "Long-Term Control Plan," "LTCP" or "updated LTCP") from July 1, 2001 to July 1, 2002. On August 29, 2002, the CSO Abatement Plan deadline was amended, by permit modification, again to July 1, 2003. On January 12, 2004, the CSO Abatement Plan deadline was again amended, by permit modification, to February 1, 2004.

7. BSA failed to submit the required Abatement Plan by February 1, 2004. BSA did not submit an Abatement plan until July 14, 2004, 164 days late.

8. BSA's failure to timely submit the required Abatement Plan is a violation of the SPDES Permit and is, therefore, a violation of Section 301 of the CWA, 33 U.S.C. § 1311.

9. Under a cover letter dated April 20, 2006, the NYSDEC notified the BSA that the Abatement Plan submitted by BSA on July 14, 2004 was not acceptable in that it would not meet the water quality objectives of the CSO Control Policy and had therefore failed to satisfy the SPDES Permit requirements of a combined sewer overflow abatement facility plan, as described in paragraph 5 above. This NYSDEC cover letter required that BSA revise its LTCP accordingly and submit it to the NYSDEC by July 31, 2006. BSA failed to submit such a revised LTCP to the NYSDEC by July 31, 2006.

10. Accordingly, EPA, NYSDEC, the U. S. Department of Justice ("USDOJ"), and the New York State Office of Attorney General commenced discussions with BSA to settle the violation. The settlement was to be embodied in a Consent Decree, under the auspices of federal court, for the development and implementation of a LTCP.

11. Since those discussions were on-going, the SPDES Permit was modified, effective January 1, 2010, to include Section VIII entitled "CSO LONG-TERM CONTROL PLAN," which states the following:

"BSA submitted a CSO Long-Term Control Plan (LTCP) in July 2004 in accordance with the requirements of their SPDES permit. Currently, the USEPA, USDOJ, NYSDEC and the permittee are engaged in negotiations concerning the LTCP, and anticipate that these negotiations will result in the entry of a Consent Decree. The Consent Decree will govern the permittee's obligations in ensuring that the WWTF and the combined sewer overflow discharges comply with the requirements of the Clean Water Act and the 1994 CSO Control Policy. This permit may be modified upon the ratification of the Consent Decree in accordance with 6 NYCRR Part 621."

12. To date, however, the parties have not reached a settlement nor entered into a Consent Decree.

13. On March 9, 2012, EPA, Region 2 issued an Administrative Order, Docket No. CWA-02-2012-3024 ("2012 Order"), to BSA, to address violations of the CWA (33 U.S.C. § 1251 et seq) and NYSDEC SPDES Permit number NY0028410. The 2012 Order requires that BSA update its CSO LTCP and that the Updated CSO LTCP include a schedule for the design, construction, and implementation of all control/treatment measures selected by BSA, to be completed as expeditiously as practicable, following any applicable environmental impact assessment review, pursuant to the New York State Environmental Quality Review Act, but in any event by no later than December 31, 2027.

14. In accordance with the 2012 Order, BSA submitted an Updated CSO LTCP, dated April 30, 2012, to the EPA and the NYSDEC for review and approval. Pursuant to "Ordered Provisions," Item 2.e of the 2012 Order, based on a joint review of the Updated CSO LTCP, the EPA and the NYSDEC declined to approve the Updated CSO LTCP and provided comments to BSA in a letter dated December 6, 2012.

15. The EPA and the NYSDEC met with BSA on February 12, 2013 to discuss the EPA's and the NYSDEC's comments. BSA followed up with a letter dated March 1, 2013 which, among other things, specified that BSA would submit a No Feasible Alternatives ("NFA") analysis and submit its Green Infrastructure ("GI") Master Plan to the Agencies by August 2, 2013, and would meet with the Agencies on or about August 15, 2013 to discuss those submittals.

16. Technical representatives of the EPA and the NYSDEC met with BSA to specifically discuss BSA's GI Master Plan on August 20, 2013. BSA followed up by providing the EPA and the NYSDEC with further information on its GI Master Plan on August 28, 2013. The EPA and the NYSDEC determined that an analogous technical meeting to discuss BSA's NFA analysis was not needed and indicated this to BSA in an email transmission dated September 11, 2013.

17. In a letter dated October 23, 2013 from EPA to BSA, EPA provided BSA with final written comments on BSA's Updated CSO LTCP. BSA was given until January 10, 2014 to submit its final revised CSO LTCP to EPA and NYSDEC. EPA's letter dated October 23, 2014 required that BSA provide a detailed implementation schedule as part of its final revised CSO LTCP and, based partly on work to be completed at the BSA wastewater treatment plant which was not originally contemplated, allowed a twenty year implementation schedule.

18. On January 10, 2014, BSA submitted its final revised CSO LTCP to EPA and to NYSDEC for review and approval. The final revised CSO LTCP includes a twenty year schedule.

19. In a letter dated March 18, 2014, EPA and NYSDEC approved BSA's final revised CSO LTCP. The approved CSO LTCP includes a twenty year implementation schedule, which is beyond the final compliance date of December 31, 2027, required by the EPA's 2012 Order.

20. Therefore, based on the above, EPA is issuing Amended Administrative Order, Docket No. CWA-02-2014-3033, to incorporate a twenty year implementation schedule and a final compliance date of March 18, 2034.

ORDERED PROVISIONS

Based on the Findings of Fact and Findings of Violation set forth above, and pursuant to the authority of Sections 308(a) and 309(a) of the CWA, 33 U.S.C. §§ 1318(a) and 1319(a), and in accordance with Section 402(q) of the CWA, 33 U.S.C. § 1342 (q), it is hereby ORDERED that:

1. Immediately upon receipt of the original copies of this Order, a responsible official of BSA shall complete and sign the acknowledgment of receipt of one of the originals of the Order and return said original to the Chief, Compliance Section, Water Compliance Branch, Division of Enforcement and Compliance Assistance, in the enclosed envelope to the address listed below.

2. Development of Updated Long Term Control Plan: BSA shall revise and implement an approved Updated LTCP consistent with the requirements of the CSO Policy and applicable State law and regulation. The Updated LTCP shall provide for the construction and implementation of all wastewater treatment plant ("WWTP") and sewer system improvements and other measures necessary to ensure that: (i) CSO discharges from all CSO discharge outfalls comply with the technology-based and water quality-based requirements of the CWA, the CSO Control Policy and state law and regulation; and (ii) bypasses at the WWTP are in compliance with the bypass conditions in 40 C.F.R. § 122.41(m), 327 IAC 5- 2-8(11), and shall demonstrate that there are no feasible alternatives to the remaining bypasses, in accordance with Section II.C.7 of the CSO Control Policy.
   a. By no later than April 30, 2012, BSA shall submit to EPA and NYSDEC an Updated LTCP. The schedule included in the Updated LTCP shall require the design, construction, and implementation of all control/treatment measures selected by BSA as expeditiously as practicable, following any applicable environmental impact assessment review pursuant to the New York State Environmental Quality Review Act ("SEQR review"), but in any event by no later than March 18, 2034.
   b. The Updated LTCP shall include, at a minimum:
      i. An update of the system characterization information, receiving water characterization information, existing conditions information, CSO control objectives, and any other information presented in the 2004 LTCP that is no longer current;
      ii. BSA's previous screening and subsequent evaluation of individual CSO control technologies and site-specific CSO controls. The Updated LTCP shall: (1) reassess the results of that original evaluation in light of the applicability of recreation-protective bacteria standards in BSA's receiving waters; (2) include, as appropriate, new technologies and controls (such as green infrastructure ("GI") and bio-ballasted flocculation treatment) not considered in the 2004 LTCP; and (3) in particular, carry out a new evaluation of a range of updated system-wide alternatives. Together, BSA's prior and updated system-wide alternatives evaluation shall include a sufficiently wide range of alternatives for eliminating, reducing, or treating CSO discharges, and for eliminating or reducing bypass discharges (except as permitted in the bypass conditions in 40 C.F.R. § 122.41(m) and 327 IAC 5-2-8(11)). The updated evaluation shall consider the costs and effectiveness (in terms of reduction in number of overflow events, overflow volume reduction, pollutant loading reductions, water quality improvements, etc.) predicted to result from implementation of each of the updated system-wide alternatives.

iii. In evaluating the relative performance of the updated system-wide alternatives and in selecting a preferred alternative, BSA shall give the highest priority to controlling overflows to sensitive areas as required under the CSO Control Policy, at section II.C.3.

iv. BSA's Updated LTCP shall include past and current alternative evaluation efforts that together include at a minimum: (1) taking no-action; (2) complete sewer separation (3) partial separation of various portions of the combined sewer system; (4) installation of various sizes of storage or equalization basins at the Buffalo Sewer Authority WWTP and/or in the sewer system; (5) construction of new secondary or advanced wastewater treatment plants; (6) construction of increased treatment capacities at the existing facilities; (7) construction of additional facilities (such as high rate treatment or ballasted flocculation facilities or its equivalent) for providing primary treatment or better than primary treatment of discharges from CSO discharge outfall structures; (8) construction of new intercepting sewers from the sewer system to the facilities; (9) construction of facilities for providing disinfection (and dechlorination, if necessary) of CSO discharges; (10) construction of facilities for removing floatables from CSO discharges; (11) construction of relief sewers; (12) relocation of CSO discharge outfall structures; (13) implementation of pretreatment measures to reduce flows and/or pollutants discharged into the sewer system from industrial users; (14) consideration of the use of GI where feasible, and (15) construction and/or implementation of combinations of these alternatives. These evaluations shall be carried out in accordance with Chapter 3 of EPA's "Combined Sewer Overflows Guidance for Long-Term Control Plan."

v. The Updated LTCP shall describe BSA's prior technology screening assessments and shall include, at a minimum, BSA's evaluation of the technical feasibility and applicability of each alternative or combination of alternatives at each CSO discharge outfall or grouping of CSO discharge outfalls. Where necessary, BSA shall update said assessments in light of the applicability of recreation-protective bacteria standards in BSA's receiving waters.

vi. BSA's updated evaluation of system-wide alternatives shall include:

1. An evaluation of a range of "sizes" of each updated system-wide alternative that will, for the typical year achieve an average volume of wet weather percent capture from 75 to 100 percent and reduce the average number of untreated CSO Discharge events to 0, 1-3, 4-7 and 8-12 per year. The updated LTCP shall include a detailed description of the 12 month rainfall record that BSA has utilized in developing its Updated LTCP, and that BSA will utilize in implementing its Post Construction Monitoring Program. The Updated LTCP shall describe in detail BSA's analysis of its available long term rainfall record, its basis for selecting its "typical year," and, in the event that BSA selects a "modified year" as its "typical year," shall discuss in detail all modifications made to the actual rainfall record to arrive at the "modified" rainfall record. The updated LTCP shall include a detailed tabular summary of the "modified" rainfall record, such that it is clear exactly what rainfall record shall be used in implementing the PCMP;

2. A determination of the estimated "project costs," as that term is described on pages 3-49 through 3-51 of the EPA's "Combined Sewer Overflows Guidance for Long-Term Control Plan," for each size of each updated system-wide alternative. The determination of the estimated "project costs" shall include: (a) "capital costs," "annual operation and maintenance costs," and "life cycle costs," as those terms are described on pages 3-49 through 3-51 of EPA's "Combined Sewer Overflows Guidance for Long-Term Control Plan;" and (b) an itemization of the "capital costs" and "annual operation and maintenance costs" used to determine the total "project costs" for each separate component of each alternative or combination of alternatives; and

3. An evaluation, using a validated collection system model, of the expected reduction in number of CSO events, CSO discharge volume and pollutant discharge quantity from each CSO discharge point for each size of each updated system-wide alternative. The evaluation shall include, at a minimum, an analysis of the improvement in every pollutant of concern, which are: fecal coliform in all receiving waters, and DO/BOD/SOD in the Buffalo River, Scajaquada Creek, and the Black Rock Canal.

vii. For each system-wide alternative, BSA's assessment shall include an evaluation, using water quality models, of the expected water quality improvements in the receiving waters that will result from implementation of each updated system-wide alternative. The evaluation shall include, at a minimum, an analysis of the improvement in every pollutant of concern in that receiving water.

viii. For each updated system-wide alternative, BSA shall include a cost-performance analysis, such as a "knee of the curve" analysis, for each alternative or combination of alternatives that will allow for the comparison of the costs to: (1) the associated expected water quality improvements; (2) the reduction of CSO discharge and bypass discharge volume; (3) the reduction in CSO discharge and bypass discharge events; (4) the increase in percent wet weather capture; and/or (5) the reduction in pollutant loading from CSO discharge and bypass discharge events.

ix. The Updated LTCP shall include a financial capability analysis that complies with USEPA's "Combined Sewer Overflows – Guidance for Financial Capability Analysis and Schedule Development" February 1997).

x. The Updated LTCP shall include the selection of CSO control measures, including the construction of all sewer system and facility improvements necessary to ensure compliance with the technology-based and water quality-based requirements of the CWA, state law and regulation and BSA's SPDES permit. The Updated LTCP shall include the selection of bypass discharge control measures, so as to ensure that all remaining bypasses are in compliance with the bypass conditions in 40 C.F.R. § 122.41(m), 327 IAC 5- 2-8(11), and shall demonstrate that there are no feasible alternatives to the remaining bypasses, in accordance with Section II.C.7 of the CSO Control Policy.

xi. The Updated LTCP shall include an expeditious schedule for the design, construction, and implementation of all CSO control measures selected by BSA. If it is not possible for BSA to design and construct all measures simultaneously, the Updated LTCP shall include a phased schedule based on the relative

importance of each measure, with highest priority being given to eliminating discharges to sensitive areas and to those projects which most reduce the discharge of pollutants. The schedule shall specify critical construction milestones for each specific measure, including, at a minimum, dates for: (1) submission of applications for all permits required by law; (2) start of design; (3) commencement of construction; (4) completion of construction; (5) completion of construction; and (6) achievement of full operation.

c. The alternatives evaluated should include the use of GI wherever feasible to reduce CSO volumes and handle separated storm water. GI shall generally mean systems and practices that use or mimic natural processes to infiltrate, evapotranspire, and/or harvest storm water on or near the site where it is generated. GI applications and approaches that may be considered include, but are not limited to, green roofs, downspout disconnection, trees and tree boxes, rain gardens, vegetated swales, pocket wetlands, infiltration planters, vegetated median strips, permeable pavements, reforestation, and protection and enhancement of riparian buffers and floodplains. EPA and NYSDEC encourage BSA to utilize GI projects as appropriate to reduce or replace gray infrastructure projects included in the Updated LTCP provided that any GI project proposed is anticipated to provide substantially the same or greater level of control as the alternative gray infrastructure project. Should BSA rely on other entities to implement GI projects, BSA must have in place agreements as appropriate, to ensure proper operation and maintenance of the GI project. For any GI project submitted as part of the Updated LTCP, BSA shall submit to EPA and NYSDEC a detailed GI project proposal outlining each proposed project.

   i. The GI project proposal shall be consistent with this Administrative Order and shall at a minimum include the following for each project:

      1. Data on location, sizing, design, and the performance criteria expected to be achieved with the implementation of the GI project, utilizing the information and models that BSA used in developing the Updated LTCP, and any monitoring information used in formulating the proposal; along with a demonstration of the long term effectiveness and performance expected to be achieved with implementation of the project;
      2. A description of the work required to implement the GI project and a schedule for completion of this work and implementation of the project that is consistent with this Administrative Order and the date set forth herein in Paragraph 2(a) for completion of construction and full implementation of all remedial and control measures;
      3. A description of the proposed ownership of and access to the GI project, and should BSA rely on other entities to implement the GI project, BSA must explain what agreements will be necessary to ensure proper operation and maintenance of the GI project (i.e., permanent access, sufficient control over key aspects of the project), and how they will be enforced to ensure proper operation and maintenance of the GI project; and
      4. A description of any post-construction monitoring and modeling to be performed that is necessary to determine whether the performance criteria set forth, as noted above, will be met upon completion and implementation of the GI project.

ii. Upon review of BSA's GI project proposal, EPA and NYSDEC will comment, approve, disapprove, or approve in part, the proposal:

1. BSA shall implement each GI project approved by EPA and NYDEC in accordance with the provisions and schedule in the approved proposal;
2. If the GI project proposal is approved in part, BSA shall, upon written direction from EPA and NYSDEC, take all actions in the approved portion of the GI proposal that EPA and NYSDEC determine are technically severable from any disapproved portions. For the disapproved portions, BSA shall, within 90 Days, correct all deficiencies and resubmit the proposal for approval. If the resubmission is approved in whole or in part, BSA shall proceed in accordance with this subparagraph; or
3. If the GI project proposal is disapproved, EPA and NYSDEC's decision is final. For each project which is disapproved, BSA shall propose an alternative GI project or gray infrastructure project, or combined green and gray infrastructure project, within 90 days of the date of disapproval. In the event that BSA's alternative proposal is disapproved by EPA and NYSDEC due to the GI project component of the proposal, BSA shall propose an alternative gray infrastructure project within 90 days of the date of disapproval.

iii. In the event that BSA implements an approved GI project proposal that fails to meet the specified performance criteria set forth in the project proposal and Updated LTCP, BSA shall propose, within 180 days after submittal of the applicable post-construction monitoring report documenting said failure, an additional green or gray infrastructure project designed to achieve the performance criteria with a schedule for completion of this work and implementation of the project that is consistent with this Administrative Order and the date set forth herein in Paragraph 2(a) for completion of construction and full implementation of all remedial and control measures. In the alternative, where BSA has substantially met the performance criteria, BSA may, within sixty (60) days after its knowledge of a project's failure to meet the performance criteria, petition EPA and NYSDEC for a change in the performance criteria. After consideration of any such request by BSA, EPA and NYSDEC's decision will be final. In the event that EPA and NYSDEC disapprove of BSA's request for a change in the performance criteria, BSA shall, within 180 days after EPA and NYSDEC's disapproval, propose additional control measures designed to achieve the performance criteria with a schedule for completion of this work and implementation of the Project that is consistent with this Administrative Order and the date set forth herein in Paragraph 2(a) for completion of construction and full implementation of all remedial and control measures.

iv. BSA shall submit to EPA an update on its implementation of GI projects as part of the semi-annual reports due on March 1st and September 1st of each year.

d. If BSA seeks to replace any gray infrastructure projects provided in the Updated LTCP, BSA shall submit to EPA and NYSDEC a detailed GI project proposal outlining each proposed project consistent with the requirements of Paragraph 2(c).

e. EPA and NYSDEC may approve the Updated LTCP or decline to approve it and provide written comments. Within 120 days of receiving EPA's and NYSDEC's written comments, BSA shall modify the Updated LTCP consistent with EPA's and

NYSDEC's written comments, and resubmit the Updated LTCP to EPA and NYSDEC for final approval.

f. Upon receipt of EPA's and NYSDEC's final approval of the Updated LTCP (hereinafter "Approved CSO LTCP"), BSA shall implement the measures in the Approved CSO LTCP in accordance with the schedule in the Plan, including certain milestones of which listed in the Appendix, "BSA Approved CSO LTCP Implementation Schedule," and shall complete the implementation of its Approved CSO LTCP by not later than March 18, 2034.

3. Post Construction Monitoring Plan: Within one year of approval of the Updated LTCP, BSA shall submit to EPA and NYSDEC for approval, a work plan for conducting an ongoing study or series of studies ("Post-Construction Monitoring Plan") to help determine: (1) whether the Approved CSO LTCP measures, when completed, meet all performance criteria specified in the Approved CSO LTCP; (2) whether BSA's CSOs comply with the technology-based and water quality-based requirements of the CWA, state law, the CSO Control Policy, all applicable federal and state regulations, and its SPDES Permit, for all CSO-receiving waters; and (3) whether all remaining bypasses are in compliance with the bypass conditions in 40 C.F.R. § 122.41(m), 327 IAC 5- 2-8(11), and demonstrate that there are no feasible alternatives to the remaining bypasses, in accordance with Section II.C.7 of the CSO Control Policy. The Post-Construction Monitoring Plan shall be consistent with the guidance "Combined Sewer Overflows Guidance for Long-Term Control Plan."

a. The Post-Construction Monitoring Plan shall contain a schedule for performance of the study or series of studies at key points during the course of the implementation of the remedial measures, as well as after completion of the remedial measures, specified in the Approved CSO LTCP. The Post-Construction Monitoring Plan also shall indicate the years (at least biannually) in which data generated during implementation of the Post-Construction Monitoring Plan will be submitted in the reports in Paragraph 4 to EPA and NYSDEC.

b. EPA and NYSDEC may approve the Post-Construction Monitoring Plan or may decline to approve it and provide written comments. Within ninety (90) days of receiving EPA's and NYSDEC's comments, BSA shall alter the Post-Construction Monitoring Plan consistent with EPA's and NYSDEC's comments, and resubmit the Plan to EPA and NYSDEC for final approval.

c. Upon final approval of the Post Construction Monitoring Plan, BSA shall implement, in accordance with the schedule therein, the Post-Construction Monitoring Plan. If the results of the Post-Construction Monitoring Plan indicate areas of non-compliance, BSA shall, within 120 days, (unless a different period is specified) of being requested in writing to do so, submit to EPA and NYSDEC a Supplemental Compliance Plan which includes the actions that BSA will take to achieve compliance and a schedule for taking such actions. Upon approval by the EPA and NYSDEC, BSA shall implement the Supplemental Compliance Plan, in accordance with the schedule specified in the approved Plan.

d. Within one hundred twenty (120) days after completion and implementation of the Post-Construction Monitoring Plan, BSA shall submit a Final Post-Construction-Monitoring Report to EPA and NYSDEC, for review, comment and approval, that:

i. demonstrates that BSA performed the Post-Construction Monitoring Plan in accordance with the approved Plan and schedule set forth in the approved Post-Construction Monitoring Plan; and

ii. summarizes the data collected during Post-Construction Monitoring and analyzes whether the completed control measures have met and/or are meeting the performance criteria specified in the Approved CSO LTCP; whether BSA's CSOs comply with the requirements of the CWA, state law, the CSO Control Policy, all applicable federal and state regulations, and BSA's SPDES Permits; and whether all remaining bypasses are in compliance with the bypass conditions in 40 C.F.R. § 122.41(m), 327 IAC 5- 2-8(11), and demonstrate that there are no feasible alternatives to the remaining bypasses, in accordance with Section II.C.7 of the CSO Control Policy.

e. EPA and NYSDEC may approve the Final Post-Construction Monitoring Report or may decline to approve it and provide written comments. Within sixty (60) days of receiving EPA's and NYSDEC's comments, BSA shall alter the Final Post-Construction Monitoring Report consistent with EPA's and NYSDEC's comments, and resubmit the Report to EPA and NYSDEC for final approval. Approval of the Final Post-Construction Monitoring Report only constitutes EPA's and NYSDEC's approval that the report contains the information required by this Administrative Order; it does not mean that EPA and NYSDEC believe BSA has complied with any other requirement of this Administrative Order or federal or state law.

4. Reporting Requirements

a. Semi-Annual Status Reports. Upon the effective date of this Administrative Order, until EPA and NYSDEC's approval of the Final Post-Construction-Monitoring Report, BSA shall submit written Semi-Annual Status Reports to EPA and NYSDEC. These reports shall be submitted by no later than March 1st of each year (for the "reporting period" from July 1 through December 31 of the previous calendar year) and September 1st of each year (for the "reporting period" from January 1 through June 30 of the current calendar year). The Semi-Annual Status Reports may be provided either as paper documents or in electronic format, provided that the electronic format is compatible with EPA and NYSDEC software and is accompanied by a written certification on paper in accordance with "General Provisions" Paragraph 1. The written certification must be sent via certified or overnight mail. The frequency of reports, and the reporting period, may be amended upon written agreement from EPA and NYSDEC. In each written Semi-Annual Status Report, BSA shall provide, at a minimum, the following:

i. a statement setting forth (1) the deadlines and other terms that BSA has been required to meet since the date of the last statement; (2) whether and to what extent BSA has met those requirements; and (3) the reasons for any noncompliance (notification to EPA and NYSDEC of any anticipated delay shall not, by itself, excuse the delay);

ii. (1) a general description of the work completed within the prior reporting period; (2) to the extent known, a statement as to whether the work completed in that period meets applicable design criteria; (3) a projection of work to be performed during the next six-month period; (4) notification of any anticipated delays for the upcoming six month period of time; and (5) any changes in key personnel.

iii. If any public meetings were held, the report should include a copy of any advertisements placed for the meeting, any materials or handouts, formal meeting notes, and a summary of the meeting.

iv. BSA shall also submit, with each written status report, copies (to EPA only) of all monthly monitoring reports or other reports pertaining to CSOs and bypasses that BSA submitted to NYSDEC during the reporting period.

b. Semi-Annual Status Meetings. Representatives of EPA, NYSDEC and BSA shall conduct semi-annual meetings to discuss BSA's compliance status with the provisions of this Order. These meetings shall be scheduled during the months of March or April to discuss the previous reporting period, and September or October to discuss the previous reporting period. The meetings can be conducted telephonically if agreed in writing (including electronic correspondence) by all parties in advance. The frequency of such compliance meetings may be reduced upon written agreement (including electronic correspondence) from EPA and NYSDEC.

c. Annual Post Construction Monitoring Report. Upon the effective date of this Administrative Order, until EPA and NYSDEC's approval of the Final Post-Construction-Monitoring Report, BSA shall submit annually with its September 1st Semi-Annual Reports, an Annual Post Construction Monitoring Report containing information generated in accordance with the Post-Construction Monitoring Plan. The Annual Post Construction Monitoring report may be provided either as paper documents or in electronic format, provided that the electronic format is compatible with EPA and NYSDEC software and is accompanied by a written certification on paper in accordance with "General Provisions" Paragraph 1. The written certification must be sent via certified or overnight mail. The frequency of reports, and the reporting period, may be amended upon written agreement from EPA and NYSDEC.

d. Permits or Approvals. When it is necessary for BSA to obtain a federal, state, or local permit or approval or perform SEQR review, BSA shall submit timely and complete applications, or timely perform the SEQR review, and take all other actions necessary to obtain all such permits or approvals or to ensure compliance with SEQR.

GENERAL PROVISIONS

1. Any documents to be submitted by BSA pursuant to this Administrative Order shall be signed by an official of BSA or an authorized representative of BSA (see 40 C.F.R. § 122.2) and include the following certification:

> "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."

2. All notifications, reports, submissions and communications required by this Order shall be sent by certified mail or its equivalent to the following addresses:

Doughlas McKenna, Chief
Water Compliance Branch
Division of Enforcement and Compliance Assistance
United States Environmental Protection Agency, Region 2
290 Broadway, 20th Floor
New York, New York 10007-1866

Joseph DiMura, P.E.
Director, Bureau of Water Compliance Programs
Division of Water
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-3506

Regional Water Engineer
New York State Department of Environmental Conservation
Region 9
270 Michigan Avenue
Buffalo, New York 14203-2915

3. The Respondent shall have the opportunity, for a period of twenty (20) days from the effective date of this Order, to confer, regarding the Amendments to Administrative Order CWA-02-2012-3024, with the following designated Agency Representative:

Doughlas McKenna, Chief
Water Compliance Branch
Division of Enforcement and Compliance Assistance
United States Environmental Protection Agency, Region 2
290 Broadway, 20th Floor
New York, New York 10007-1866
(212) 637-4244

4. Respondent may seek federal judicial review of this Order pursuant to Chapter 7 of the Administrative Procedure Act, 5 U.S.C. §§ 701-706.

5. This Order does not constitute a waiver from compliance with, or a modification of, the effective terms and conditions of the CWA, its implementing regulations, or any applicable permit, which remain in full force and effect. Issuance of this Order shall not be deemed an election by EPA to forego any civil or criminal actions for penalties, fines, imprisonment, or other appropriate relief under the CWA.

6. Notice is hereby given that should EPA commence an action in a United States District Court for a violation of any Ordered Provision of this Order, Respondent may be subject to (1) civil penalties up to $37,500 per day for each day of violation, pursuant to Section 309(d) of the CWA, 33 U.S.C. § 13199d); and/or (2) injunctive relief, pursuant to Section 309(b) of the CWA, 33 U.S.C. § 1319(b), as imposed by the Court.

7. If any provision of this Order is held by a court of competent jurisdiction to be invalid, any surviving provisions shall remain in full force and effect.

8. Provisions of Administrative Order CWA-02-2012-3024, incorporated herein, continue to be effective as of March 9, 2012. The Amendments to Administrative Order CWA-02-2012-3024 contained in this Order CWA-02-2014-3033 shall become effective upon the date of execution by the Director, Division of Enforcement and Compliance Assistance.

Dated: APRIL 11, 2014 Signed: _____

Dore LaPosta, Director
Division of Enforcement and Compliance Assistance

APPENDIX

BSA Approved CSO LTCP Implementation Schedule

Project Name	Project Milestones/Deadlines
Phase I Projects (see Table 11-11)	
Bird/Lang RTC Projects	Construction Start and Completion Dates: 3/17/2014 – 9/2/2014 Operations/Optimization (RTC): 9/3/2014 – 9/3/15
Foundation Projects (see Table 11-11)	
Foundation 1 - Smith Street Storage	Engineering Start: 3/18/2014 Engineering Completion: 3/18/2015 Notice to Proceed3/18/2015 Substantial Completion: 3/18/2017
Foundation 2 - SPP Optimization (20 projects)	Engineering Start: 3/1/14 Engineering Completion: 3/18/2015[1] Notice to Proceed: 3/1/14 Substantial Completion: 3/18/2017[1]
Foundation 3 - Remaining RTC (14 sites)	Engineering Start: 3/18/2016 Engineering Completion: 3/18/2023[1] Notice to Proceed: 3/18/2017 Substantial Completion: 3/18/2024[1]
Foundation 4 - Hamburg Drain Optimizations	Engineering Start: 3/18/2015 Engineering Completion: 3/18/2017[1] Notice to Proceed: 3/18/2016 Substantial Completion: 3/18/2018[1]
Foundation 4 – Hamburg Drain Storage	Engineering Start: 3/18/2028 Engineering Completion: 3/18/2030 Notice to Proceed: 3/18/2030 Substantial Completion: 3/18/2032
Green Projects (see GI Master Plan)	
Green Pilot Projects – 267-acres of GI control	Engineering Start:3/1/14 Engineering Completion: 3/18/2016[2] Construction Completion Date: 3/18/2018[2] PCM Start and Completion Dates: 3/18/2016 – 3/18/2019[2] Construction of controls for at least 134 acres will have started by 9/18/2017
Green 2 – 410-acres of GI control	Engineering Start: 3/18/2019 Engineering Completion: 3/18/2023[2] Construction Completion Date: 3/18/2024[2] Construction of controls for at least 205 acres will have started by 3/18/2022[2]

Green 3 – 375-acres of GI control	Engineering Start: 3/18/2023 Engineering Completion: 3/18/2028[2] Construction Completion Date:3/18/2029[2] Construction of controls for at least 188 acres will have started by 9/18/2026[2]
Green 4 – 263-acres of GI control	Engineering Start: 3/18/2028 Engineering Completion: 3/18/2033[2] Construction Completion Date:3/18/2034[2] Construction of controls for at least 132 acres will have started by 9/18/2031[2]
WWTP	
WWTP Improvements Project – Alternative C2 (two consecutive projects)	Engineering Start: 3/18/2015 Engineering Completion: 3/18/2019[1] Notice to Proceed: 3/18/2017 Substantial Completion 3/18/2022[1]
Gray Projects (see Section 12.3)	
CSOs 014/15 – In-line storage and optimization	Construction Start: 3/18/14 Substantial Completion: 3/18/15
CSO 013 – Satellite storage, conveyance, FM & PS	Engineering Start: 3/18/2019 Engineering Completion: 3/18/2020 Notice to Proceed: : 3/18/2020 Substantial Completion: 3/18/2022
North Relief – Interceptor	Engineering Start: 3/18/2019 Engineering Completion: 3/18/2022 Notice to Proceed: 3/18/2022 Substantial Completion: 3/18/2026
CSOs 010, 008/010, 061, 004 – Underflow capacity upsizing	Engineering Start: 3/18/2021 Engineering Completion: 3/18/2023 Notice to Proceed: 3/18/2023 Substantial Completion: 3/18/2024
SPP 337 (CSO 053) – Satellite storage, conveyance, FM & PS	Engineering Start: 3/18/2023 Engineering Completion: 3/18/2025 Notice to Proceed: 3/18/2025 Substantial Completion: 3/18/2027
SPP 336 a+b (CSO 053) – Satellite storage, conveyance, FM & PS	Engineering Start: 3/18/2024 Engineering Completion: 3/18/2026 Notice to Proceed: 3/18/2026 Substantial Completion: 3/18/2029

Jefferson & Florida (SPP 170B – CSO 053) – Satellite storage, conveyance and FM	Engineering Start: 3/18/2025 Engineering Completion: 3/18/2027 Notice to Proceed: 3/18/2027 Substantial Completion: 3/18/2030
CSO 055 – Satellite storage, conveyance, FM & PS	Engineering Start: 3/18/2027 Engineering Completion: 3/18/2030 Notice to Proceed: 3/18/2030 Substantial Completion: 3/18/2034
CSOs 028/044/047 - Satellite storage, conveyance, FM & PS (storage at Tops from CSO 47 west)	Engineering Start: 3/18/2028 Engineering Completion: 3/18/2031 Notice to Proceed: 3/18/2031 Substantial Completion: 3/18/2034
CSO 052 – Satellite storage, conveyance, FM & PS	Engineering Start: 3/18/2030 Engineering Completion: 3/18/2032 Notice to Proceed: 3/18/2032 Substantial Completion: 3/18/2034
CSO 064 – Satellite storage, conveyance, FM & PS	Engineering Start: 3/18/2030 Engineering Completion: 3/18/2032 Notice to Proceed: 3/18/2032 Substantial Completion: 3/18/2034
Post Construction Monitoring	
Submit PCM Plan	3/18/2015
Implement PCM	Per approved PCM Plan

NOTES:

References specified in the Implementation Schedule above refer to the Approved BSA CSO LTCP, including the Green Infrastructure Master Plan, approved by EPA and NYSDEC on March 18, 2014.

Engineering timeframes (from start to completion) include planning, design, permitting/SEQRA/Public Notice, regulatory review and approval, land/easement acquisition, funding, and bidding/award.

Substantial Completion is defined as the time at which the Project has progressed to the point where, in the opinion of Engineer, the Work is sufficiently complete, in accordance with the Contract Documents, so that the Project can be utilized for the purposes for which it is intended.

(1) Project consists of multiple smaller projects that will overlap in engineering and construction. Specific engineering completion and construction dates for each project site will determined and submitted to the Agencies as they are developed. In any case, all work associated with these blocks of projects will be completed within the overall timeframe shown.

(2) GI projects will consist of multiple smaller projects including building demolitions that will overlap in engineering and construction during a given GI phase. For each phase, the BSA will achieve the start of construction for at least 50 percent of the required acreage by the mid-point of each phase.

APPENDIX G: Detailed Project Cost Estimate, Edison-Martha OLS

ARCADIS

PROBABLE COST - JUNE 13, 2024

BUFFALO SEWER AUTHORITY - EDISON MARTHA OLS

APPENIDX G
OPINION OF PROBABLE TOTAL PROJECT COSTS

	Items	Quantities	Rate	Amount
0	Land Acquistion / Easements			$125,000.00
1	General Conditions and Division 1 Items		15%	$4,370,000.00
2	Sitework / Restoration	Lump Sum		$250,000.00
3	Storage Basin - Structural and Process	Lump Sum		$24,275,700.00
4	Basin Influent, Effluent Piping, Watermain	Lump Sum		$1,278,900.00
5	Influent Diversion Chamber	Lump Sum		$500,000.00
6	Tipping Bucket Equipment	Lump Sum		$1,221,600.00
7	Control / Electrical Buidling	Lump Sum		$155,300.00
8	Electrical and Lighting - 3% of above (2 thru 7)		3%	$830,000.00
9	Instrumentation - 2% of above (2 thru 7)		2%	$550,000.00
10	Electrical Service Cash Allowance	Lump Sum		$50,000.00
	Subtotal Construction Cost			**$33,606,500.00**
	General Contractor Ovehead & Profit		**15%**	**$5,050,000.00**
	Total Construction Cost (3rd Qtr. 2024)			**$38,656,500.00**
	Inflation to Mid Point of Construction (3rd Qtr. 2030)		**26.3%**	**$10,180,500.00**
	Total Construction Costs (3rd Qtr. 2030)			**$48,837,000.00**
	Engineering Planning (3rd Qrt. 2025)			**$276,000.00**
	Engineering Design (4th Qrt. 2026)			**$6,263,000.00**
	Engineering During Construction (3rd Qrt. 2030)			**$7,168,000.00**
	Total Engineering Costs			**$13,707,000.00**
	Total Project Costs Subtotal			**$62,550,000.00**
	Contigency		**35%**	**$21,900,000.00**
	Total Project Costs			**$84,500,000.00**

APPENDIX H: Engineering Report Certification

Engineering Report Certification

To Be Provided by the Professional Engineer Preparing the Report

During the preparation of this Engineering Report, I have studied and evaluated the cost and effectiveness of the processes, materials, techniques, and technologies for carrying out the proposed project or activity for which assistance is being sought from the New York State Clean Water State Revolving Fund. In my professional opinion, I have recommended for selection, to the maximum extent practicable, a project or activity that maximizes the potential for efficient water use, reuse, recapture, and conservation, and energy conservation, taking into account the cost of constructing the project or activity, the cost of operating and maintaining the project or activity over the life of the project or activity, and the cost of replacing the project and activity.

Title of Engineering Report: Capital Projects Program Management | BSA Contract No. 82000075 | Preliminary Engineering Report | CSO053 5.2 Edison Martha Offline Storage (OLS) Tank

Date of Report: 02/04/2025

Professional Engineer's Name: Thomas Whetham

Signature:

Date: 02/04/2025

BUFFALO
SEWER AUTHORITY

BUFFALO SEWER AUTHORITY
SPDES PERMIT NO. NY0028410
CAPITAL PROJECTS PROGRAM MANAGEMENT
BSA CONTRACT NO. 82000075

CSO053_1.4 Sidney Real Time Control (RTC) Preliminary Engineering Report

Prepared by TY Lin | Greeley and Hansen Water Solutions

APRIL 1, 2025

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Executive Summary

The Buffalo Sewer Authority (Buffalo Sewer) provides wastewater service to approximately 550,000 people. Buffalo Sewer owns and operates the Bird Island Wastewater Treatment Facility (WWTF) constructed from 1937 through 1939 and manages 850 miles of sanitary, storm and combined sewer lines. Buffalo Sewer has entered into an Administrative Order (AO) with the New York State Department of Environmental Conservation (DEC) and the United States Environmental Protection Agency (EPA) as part of their Combined Sewer Overflow (CSO) Long Term Control Plan (LTCP) that was approved on March 18, 2014. The purpose of the LTCP is to reduce CSO activations within the existing system.

Pursuant to the LTCP, Buffalo Sewer is developing a coordinated series of storage and flow-diversion structures within their collection system. A significant amount of storage volume is planned to be obtained using Real-Time Control (RTC) structures as Buffalo Sewer anticipates installing 16 RTC structures as part of the LTCP. The RTC sites optimize available inline storage (ILS) and conveyance capacity within the collection system through the utilization of overflow lines (referred to as outfall storage) and combined sewers.

The recommended alternative will involve constructing an RTC structure at the intersection of Sidney Street and Humboldt Parkway as part of the LTCP which is being renamed Queen City Clean Waters. The design includes a 48' gravity sewer going east from the RTC Structure in Humboldt Parkway to Lark Street and ultimately connecting at the Scajaquada Tunnel Interceptor. The RTC reduces activations at SPP336B in compliance with the agreed upon level of activation while decreasing community impact from construction and optimizing construction cost.

The total project cost of the recommended alternative is estimated to be $17.3 million in 2025 dollars.

The proposed upgrades will be essential to protecting the quality of the Black Rock Canal, Scajaquada Creek and Niagara River, which receive discharges of untreated combined sewage during wet weather. The surface waters play an important role in supporting aquatic habitats and recreation and providing an aesthetic waterfront to potential environmental justice communities. Protecting these waters will support this recreational and tourism resource for the City of Buffalo.

SECTION 1 PROJECT BACKGROUND AND HISTORY

1.1 Site Information

1.1.1 Project Background and Location

Buffalo Sewer provides wastewater service to a population of approximately 550,000. As part of this service, Buffalo Sewer owns and operates the Bird Island Wastewater Treatment Facility (WWTF), constructed from 1937 through 1939, along with managing 850 miles of storm and combined sewer lines. Buffalo Sewer has entered an AO with the DEC and the EPA as part of their approved CSO LTCP that was approved on March 18, 2014. The purpose of the LTCP is to reduce CSO activation within the existing system and to alleviate overall influent to the WWTF. A copy of the AO is provided in **Appendix A**.

Buffalo Sewer is in the process of constructing a series of coordinated RTC sites as part of their LTCP. RTC sites use smart logic to optimize available ILS and conveyance capacity within the collection system, including overflow lines (referred to as outfall storage) and combined sewers. Buffalo Sewer committed to the installation of up to 16 RTCs under the LTCP.

The Sidney Street project is designed to reduce flows at SPP336B by diverting sewer flow from Humboldt Parkway, Sidney Street and Lark Street. The diverted flow will dewater via gravity when there is sufficient capacity in the Scajaquada Tunnel Interceptor. This project addresses the issue of multiple SPPs (229A, 175, 165B, 340, 338, 337, 339, and 336B) exceeding the target of four activations per year. The primary goal is to achieve compliance for SPP336B and other related SPPs by implementing the Sidney Street sewer infrastructure and other LTCP projects. Significant reductions in activations are expected at SPPs 337, 339, and 336B, contributing to overall system compliance.

The proposed alternative site is located at the intersection of Sidney and Lark St. in the City of Buffalo, Erie County, New York as shown in **Figure 1-1**.

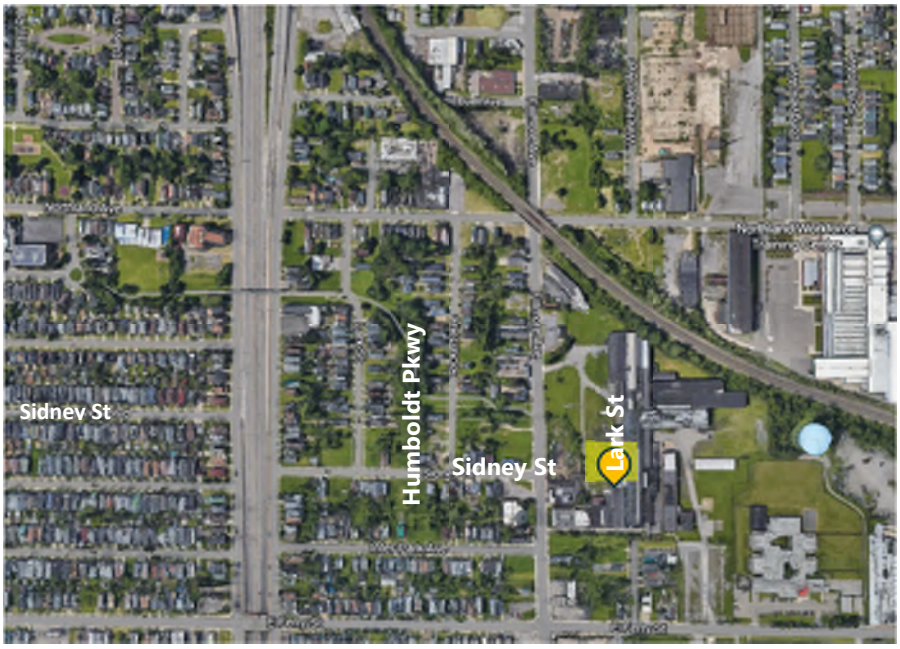


Figure 1-1: Location of Currently Proposed Project Site

1.1.2 Geologic Conditions

According to the Natural Resources Conservation Service's Web Soil Survey, the site soil types consist of Urban land and Urban land-collamer complex (1 to 6% slopes). A geologic map showing the RTC project location with subsurface work is provided in **Figure 1-2**. Geologic investigations are ongoing and site soil boring and rock coring information was not available when this report was created.

Figure 1-2: Geologic Map

1.1.3 Flood Zones

Flood zones are geographic areas that FEMA has defined according to varying levels of flood risk. The proposed location falls within FEMA's Zone X, which is an area of minimal flood hazard determined to be outside the 500-year flood zone. The flood zone maps for the project site can be seen in **Appendix B**.

1.1.4 Environmental Resources

The United States Fish and Wildlife Service's Information for Planning and Conservation (IPaC) database was researched for this site as subsurface work is planned. The IPaC preliminary results indicate that the Northern long-eared bat is an endangered species that may occur in the project area. The tricolored bat and salamander mussel are species likely to become endangered within the foreseeable future. The database also indicates that the monarch butterfly exists within the project area and is a candidate for listing as an endangered species. The project area also consists of habitat for 23 migratory birds. This project is unlikely to impact any of the aforementioned species where planned work is to occur within paved areas. The IPaC preliminary report for this project location can be found in **Appendix C**.

The sewer system has three major receiving water bodies: Scajaquada Creek (PWL ID: 0101-0023), Black Rock Canal (0101-0025) and the Niagara River (0101-0006). The latest water quality assessment provided by NYSDEC classifies all three waterbodies as "impaired" for fish consumption due to contaminants that degrade the habitat. The Scajaquada Creek is also listed as "impaired" for both primary and secondary recreational use. The Niagara River is classified as a "threatened" water supply system with "stressed" aquatic life. According to the DEC, the high density of sanitary wastewater discharges results in elevated susceptibility for numerous contaminant categories, including fecal coliforms.

1.1.5 Environmental Justice Areas

The project site falls within a Potential Environmental Justice Area (PEJA). The water quality in the Niagara River directly impacts the population on the east side of Buffalo, including the East Side community where this project is located. East Side has a minority population of approximately 83% and nearly 61% of the population lives below poverty level.

A map of the PEJAs surrounding the project site is shown in **Figure 1-3**.

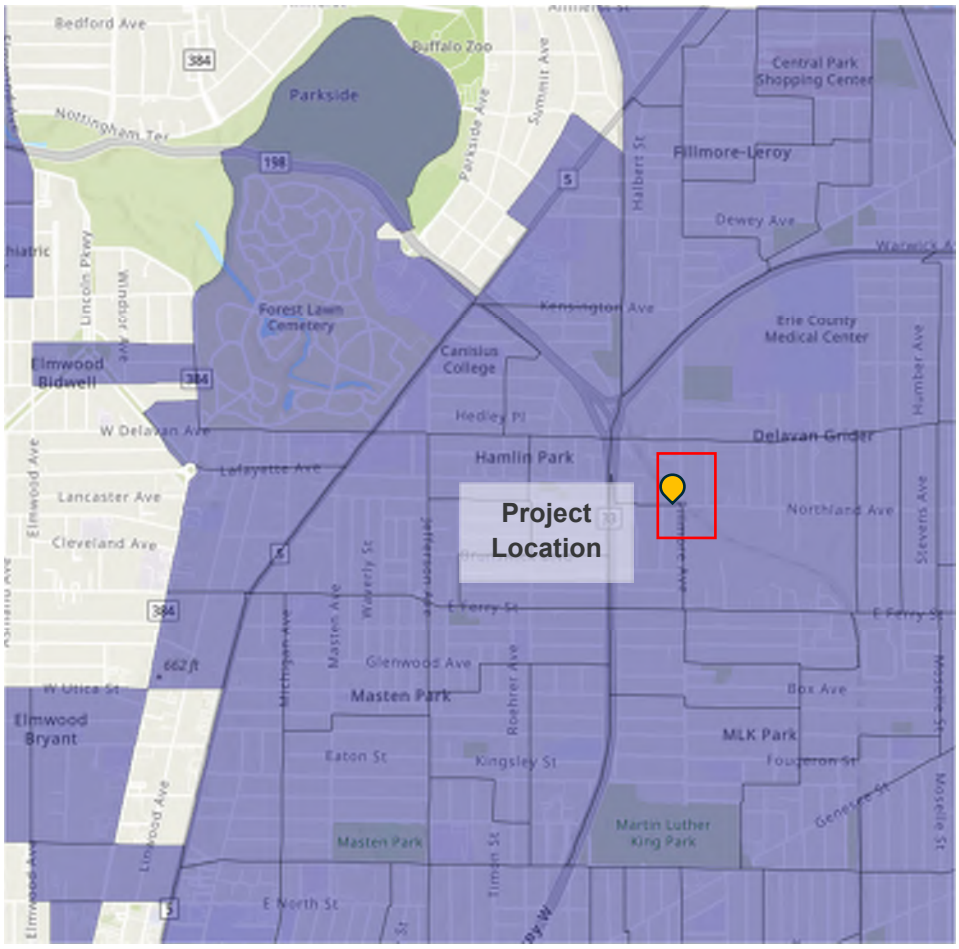


Figure 1-3: Potential Environmental Justice Areas

1.2 Ownership and Service Area

Buffalo Sewer's wastewater service area covers approximately 110 square miles, including the City and parts of the Towns of Alden, Cheektowaga, Elma, Lancaster, Tonawanda, and West Seneca and the Villages of Depew, Lancaster, and Sloan, as well as Erie County Sewer District No. 1 and No. 4, as shown in **Figure 1-4**. The collection system serves a population of approximately 550,000 residents in 11 municipalities.

Buffalo Sewer's collection system consists of approximately 850 miles of sewer lines of which 93% is made up of combined sewer systems that convey both sanitary and stormwater flows. The collection system includes 52 CSO outfall relief points to prevent flooding damage to public and private infrastructure during wet weather events that exceed the capacity of the collection and treatment system.

1.2.1 Outside Users

There are seven outside users connected to Buffalo Sewer's collection system governed under individual intermunicipal agreements (IMAs) including:

- Erie County Sewer District No. 1
- Erie County Sewer District No. 4
- Town of Cheektowaga
- Village of Sloan
- West Seneca Town Sewer District Nos. 1, 2, 3, 4, 9 and 10
- West Seneca Town Sewer District Nos. 5, 13 and 14
- West Seneca Town Sewer District No. 1

Buffalo Sewer has wholesale agreements with these outside communities and does not own, operate or maintain the wastewater collection systems within these communities. Each of these outside communities are charged by Buffalo Sewer for their share of costs allocable to the treatment of their flows to the WWTF. Allocable costs include portions of administrative expenses, WWTF expenses, industrial waste expenses, the costs to maintain trunk sewers to convey flows from the city line to the WWTF and debt service costs. The municipality or district is billed twice annually for services. Under the IMAs, each District is responsible for installing and maintaining meters at city lines. Buffalo Sewer has rights to challenge accuracy of meters, including thorough installation of test meters.

In 2023, Buffalo Sewer reported a total of 191 discharges in their Annual Pretreatment Report regarding industrial users and hauled waste activity.

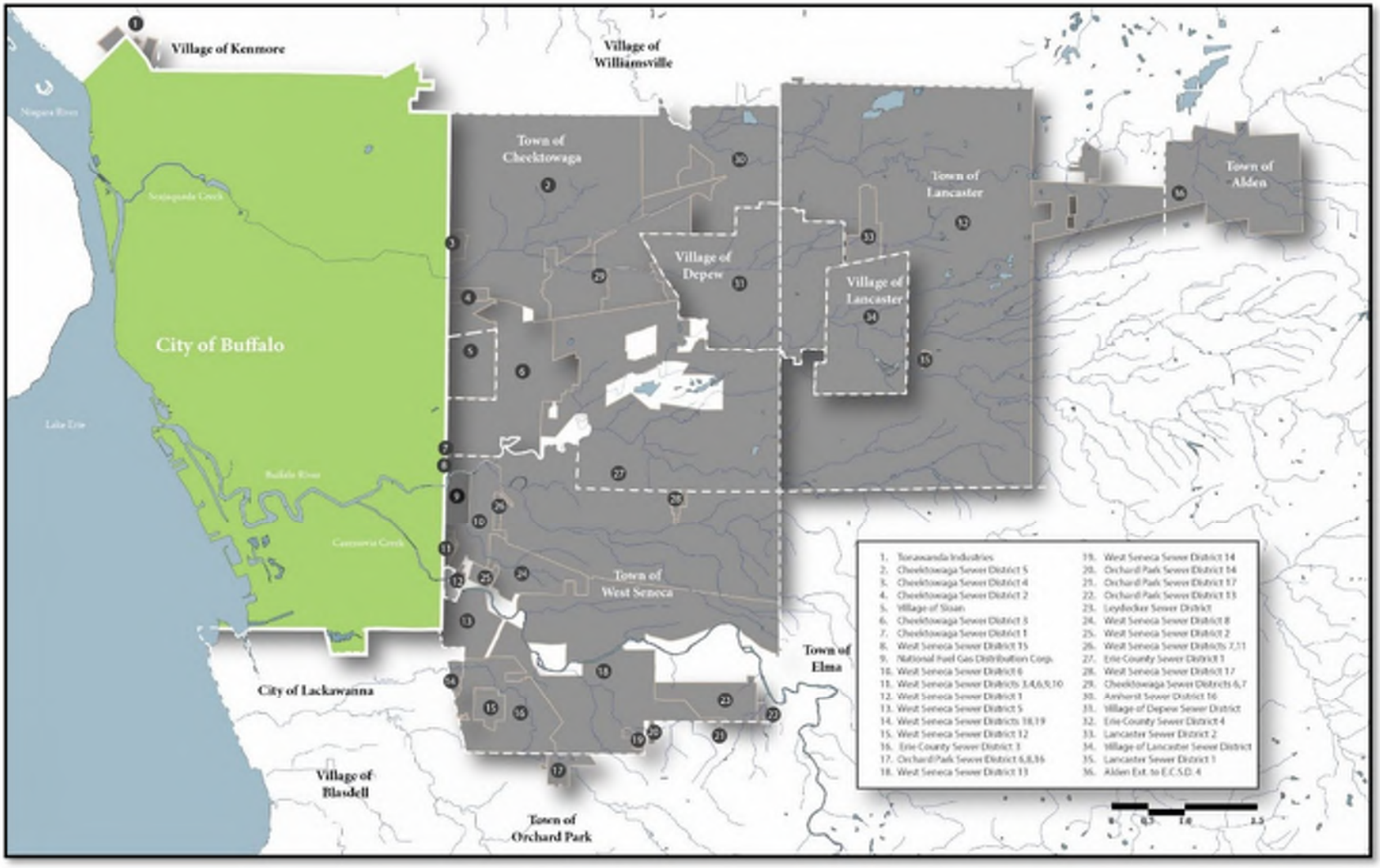


Figure 1-4: Buffalo Sewer Authority Service Area

1.2.2 Population Trends and Growth

Historically, the City of Buffalo has experienced population decline, unlike the population growth seen in New York State as a whole, as shown in **Table 1-1**; however, from 2010 to 2020, there was a population growth of 6.5%. Assuming an average population change based on the recent decade, it is projected the City's population will continue to grow at a rate of approximately 5.8% every ten years.

Table 1-1: Historical and Projected Population

Year	City of Buffalo		New York	
	Population	% Change	Population	% Change
1960	532,759		16,782,304	
1970	462,768	-13.1%	18,236,967	8.7%
1980	357,870	-22.7%	17,558,072	-3.7%
1990	328,123	-8.3%	17,990,455	2.5%
2000	292,648	-10.8%	18,976,457	5.5%
2010	261,310	-10.7%	19,378,102	2.1%
2020	278,349	6.5%	20,201,249	4.2%
2030*	295,388	5.8%	21,024,396	3.9%
2040*	312,427	5.8%	21,847,543	3.9%
2050*	329,466	5.8%	22,670,690	3.9%
2060*	346,505	5.8%	23,493,837	3.9%

*Projected
Source: US Census Bureau

As the population of the City is growing, the number of Buffalo Sewer connections has also increased over the past 11 years. Per the most recent Comprehensive Annual Financial Report (CAFR), as of FYE 2022, there are approximately 108,155 residential connections and 1,306 commercial, industrial, and governmental connections to Buffalo Sewer's collection system. These connections increased by 4.4% and 132% respectively, from FY 2014 to FY 2023.

Figure 1-5 shows the growth of connections since FY 2014.

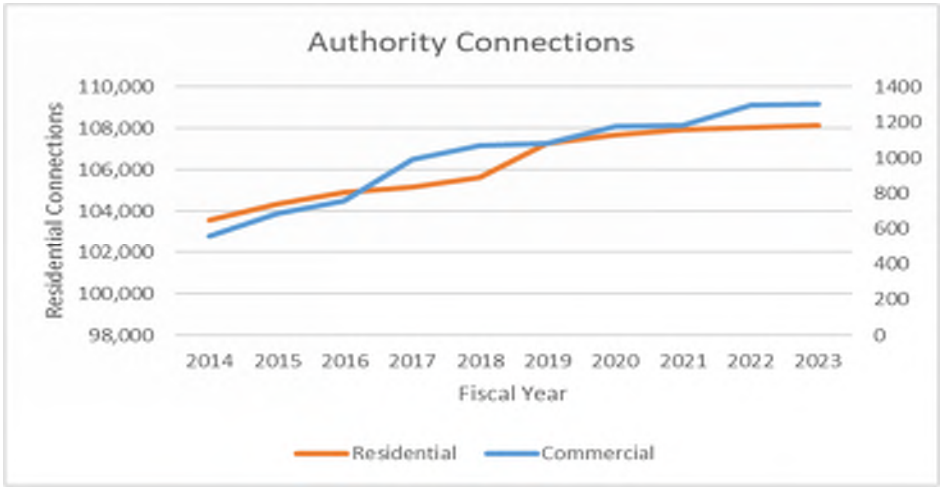


Figure 1-5: Buffalo Sewer Authority Connections

1.3 Existing Facilities and Present Conditions

1.3.1 General Description, History of Major System Components, and Description of Unit Processes

Construction on the sewer collection system began in the 1830s and the WWTF was constructed from 1937 through 1939. Over the years, the WWTF has been upgraded to comply with new regulations. There is no known failure history within the system of note. The collection and conveyance system are not efficiently utilizing storage within its infrastructure, resulting in unnecessary discharges of combined sewage to surface waters. As part of this project, an RTC structure will be constructed, thereby helping to reduce sanitary sewer overflows within the system.

Sidney Street

Sidney Street, between Fillmore Avenue and Humboldt Parkway, has an existing combined sewer line located in the street flowing east to west. It conveys combined waste and storm water from Sidney Street and Lark Street to Humboldt Parkway's combined reinforced concrete sewer. As shown in **Figure 1-6,** the sewer on Sidney Street begins as a 10-inch vitrified tile (VT) line and expands to 15 and 18-inch before connecting to the Humboldt Parkway sewer. The 10-inch, 15-inch and 18-inch lines are approximately 248 LF, 374 LF, and 300 LF, respectively, and are pitched at 0.40% slope with manholes throughout the line. The sewer on Lark Street begins as a 10-inch VT line and expands to a 12-inch before connecting to the Sidney Street sewer. The 10-inch and 12-inch lines are approximately 347 LF and 319 LF, respectively, and are pitched at 0.40% slope with manholes throughout the line.

Figure 1-6: Existing Conditions: Sidney Street and Lark Street

1.3.2 Permit Conditions

A copy of the WWTF State Pollution Discharge Elimination System (SPDES) Discharge Permit NY0028410, EDP July 1, 2014, expiration June 30, 2019, is included in **Appendix D**. BSA is in the process of renewing its SPDES permit.

1.3.3 Compliance Issues

The Project is an outcome of Administrative Order Docket No. CWA-02-2012-3024 (SPDES Permit No. NY0028410). The Administrative Order resulted in the preparation of an LTCP to refine Buffalo Sewer Authority's sewer collection system model and to reduce CSO overflow volumes and frequencies.

1.3.4 Existing Flows

According to the Combined Sewer Overflow Annual Report of 2023, CSO-53, which will have reduced activations from the proposed upgrades, had 31 events of sewer overflow for the year, discharging approximately 688 million gallons of untreated combined sewage into the Scajaquada Creek this past year. The previous year had 35 events which discharged approximately 481 million gallons of untreated combined sewage.

Flow conditions at the 90-inch Scajaquada Tunnel Interceptor downstream of the proposed Sidney offline (OLS) Tank and at the 30-inch Humboldt Parkway Sewer upstream of the proposed tank were observed by Xylem and are summarized in **Table 1-2**.

Table 1-2: Observed Flow Conditions at Upstream and Downstream Combined Sewers

Item	Scajaquada Tunnel Interceptor Flows (MGD)	Humboldt Parkway Sewer Flows (MGD)
Average Dry Weather	3.3	13.3
Peak 10 Year	111	178
Peak 10 Year 24 Hour Design Storm	172	226

1.3.5 Existing Energy Consumption

The existing infrastructure at the proposed site is gravity-based and does not consume energy.

1.4 Definition of the Problem

BSA is committed to reducing the total frequency of CSOs into the receiving waterbodies by increasing and maximizing storage capacity within the collection and conveyance infrastructure. According to the Combined Sewer Overflow Annual Report from 2023, there were a total of 31 CSO events at CSO-53 in the reporting year, while the goal for CSO-053's associated waterbody, Scajaquada Creek, is zero to four activations.

As described in **Section 1.1.4**, the receiving water bodies are impacted by discharge of untreated CSOs in several ways. The affected surface water quality poses a health and sanitation risk. Therefore, water contact for recreation must be limited when CSO activations occur and for a period afterwards. There are also longer-term implications for recreation: specifically, fishing is unsafe due to sewage stressing aquatic life and habitat. Restricting recreation limits the economic value it can bring through both tourism and the improved quality of life of the local population. Furthermore, as described in **Section 1.1.5**, the impacted water resources affect historically marginalized communities that utilize the parks, waterfronts, and historical resources in various ways.

Although many factors negatively affect these receiving water bodies, the effects caused by CSO activations can be addressed by improving the overall efficiency of storage and conveyance of sewage within the collection system.

This project proposed is to construct an RTC structure along Sidney Street and Humboldt Parkway. The structure will dewater via gravity when there is sufficient available capacity in the Scajaquada Tunnel Interceptor. This will greatly reduce the magnitude and frequency of overflows at CSO-053.

1.5 Financial Status

1.5.1 BSA Revenues

The Median Household Income (MHI) for the Buffalo area is $46,184 per year, according to the 2022 US Census, while the New York State MHI is $81,386 per year. The MHI for Buffalo is 43.3% lower than the State MHI.

The main sources of income for the sewer system come from sewer rents, direct payments from outside users, and industrial waste disposal.

BSA is projecting an operating revenue increase of 35% over the forecast period attributable primarily to rate increases. The projected revenue increases are detailed in **Appendix A**. The purpose of these rate and revenue increases is to improve water equity, provide additional funds to close the CIP funding gap and improve financial resilience.

Table 1-3 shows past BSA revenues taken from BSA's Comprehensive Annual Financial Report (CAFR) for FYE 2014 through 2023. **Table 1-4** and **Table 1-5** show projected total and net revenues, respectively, for FYE 2024 through 2028.

Table 1-3: Actual Revenues from FYE 2014 to 2023

FYE	$1,000	FYE	$1,000
2014	54,172	2019	58,268
2015	61,830	2020	55,406
2016	56,872	2021	65,355
2017	61,949	2022	58,847
2018	62,817	2023	71,477

Table 1-4: Estimated Total Revenues from FYE 2024 to 2028

FYE	Revenue (in $1,000s)
2024	66,279
2025	70,275
2026	76,267
2027	82,213
2028	89,327

Table 1-5: Estimated Net Revenues from FYE 2024 to 2028

FYE	Revenue (in $1,000s)
2024	7,444
2025	7,410
2026	10,966
2027	15,621
2028	20,936

Net revenues (total revenues fewer operating expenditures) are one source of funding the CIP. BSA's 5-year Capital Improvement Program (CIP) is currently $ 386.9M. The projected five-year amount available to fund this CIP is currently approximately $195M as detailed below:

- 2024 EFC bond issue - $39MM
- 2026 EFC bond issue - $70MM
- Capital contributions from reserves - $15MM
- Capital contributions from operations 2024-2028 - $27 MM
- Unspent funds from prior 2021 EIB - $49MM

1.5.2 Recent Rate Developments

BSA regularly performs rate reviews and formal rate studies to verify the accuracy and appropriateness of rates. BSA's last rate increase occurred July 1, 2005. On January 16, 2023, a Report on Fiscal Year 2022-23 Rates and Charges for Sewer Services was performed. The report's conclusions are presented below:

The consistently stated goals of the Authority are to build a reserve balance to a level expected by rating agencies for a sewer system the size of the Buffalo Sewer Authority and to support capital improvements to the System over the long term. While there is no required rate increase necessary for Fiscal 2022-23, and there has been no increase to rates and charges since FY 2005-06, the Authority should consider a review of its overall rate structure over the next few years to make certain the anticipated improvements identified under its long-term control plan can be adequately supported. Those improvements were previously estimated to be over $781MM.

No immediate adjustments to current rates and/or drainage/capacity charges are proposed for FY2022-23 for consideration by the Authority at this time."

BSA has recently engaged Raftelis to review their rate system and financing strategy to close the capital program funding gap. In their study, Raftelis:

1. Prepared a baseline financial forecast from FY 2025 to FY 2029 using the most recent operating budget and capital plan for the Authority and according to the funding assumptions included in the Authority's most recent Financial Capability Assessment Report.
2. Identified the cumulative five-year increase in assessment and user rate revenues that would be necessary to fund system operations and the capital program as part of the baseline forecast.
3. Prepared three (3) alternative five-year rate plan scenarios showing the amount of capital investments that could be funded over the forecast period with a better optimized capital funding mix to expand funding capacity and to minimize rate impacts.

4. For the baseline forecast and the three alternative rate plans: a. Compared the amount of capital that could be funded over the forecast period, and b. Compared the cumulative five-year increase in assessment and user rate revenues.
5. Documented findings and conclusions resulting from the evaluation.

Using a $358 million LTCP and non-LTCP capital expenditures target for 2025-2029, Raftelis concluded that the cumulative revenue increase needed to fund the planned capital over this period was projected to be 66 percent. Three alternative five-year rate plans were prepared that included a more optimized capital funding mix:

- The 5 percent rate plan was projected to be able to provide $268 million in capital funding over the five-year forecast period and resulted in a cumulative five-year revenue increase of 30 percent. This is $90 million less funding capacity than is estimated to be needed over the forecast period.
- The 7 percent rate plan was projected to be able to provide $355 million in capital funding, while resulting in a five-year revenue increase of 43 percent. This is comparable to the amount of funding needed over the forecast period and resulted in a reduced customer impact as compared to the baseline scenario.
- The 9 percent plan was projected to provide over $440 million in capital funding and resulted in a cumulative five-year revenue increase of 58 percent.

Noting the uncertainties over the cost and timing of several high dollar value projects, Raftelis recommended that the financial forecast should be updated so that specific annual increases to assessment and user rates and charges can be provided.

1.5.3 Revenue Sources

BSA currently has nine (9) revenue sources:

- Assessed sewer rents in City
- Metered water use sewer rents
- Assessed sewer rents Outside City
- Metered sewer rents Outside City
- Flat rate water use rents
- Industrial waste
- Outside City Districts
- Miscellaneous fees and charges
- State and Federal Aid

1.5.3.1 Assessed Sewer Rents in City

An amount (currently $19,852,600) shall be collected from all real property in the City of Buffalo (the "City") by apportioning the said amount upon such property within the City as the same is set down on the last completed annual assessment roll of the City, except that no ad valorem sewer rent shall be assessed against real property exempt from real property taxes.

1.5.3.2 Metered Water Use Sewer Rents

If a customer is a user of water supplied by the Buffalo Water Board or from any other source, and the quantity of water used is measured by a water meter acceptable to BSA, then in each such case, the quantity

of water used, as measured by said meter, shall be used to determine the sewer charge or rental, and the charge for such use shall be as follows:

1. $48.30 for 0 to 4,000 cubic feet of water used per quarter year, if the meter is read quarterly, and any water used in excess thereof shall bear a sewer charge or rental of $11.09 per thousand cubic feet ($.0111 per cubic foot).
2. $16.10 for 0 to 1,333 cubic feet of water used per month, if the meter is read monthly, and any water used in excess thereof shall bear a sewer charge or rental of $11.09 per thousand cubic feet ($.0111 per cubic foot).

1.5.3.3 Assessed Sewer Rents Outside City

An annual service charge for the privilege of connecting with the facilities of BSA shall be due for any premises situated outside the limits of the City for each $1,000 of assessed valuation as determined on the last completed annual assessment. The 2021 – 2022 rate is $2.71239 per $1,000 of assessed valuation.

1.5.3.4 Metered Sewer Rents Outside City

If an outside City customer is a user of water supplied by the Buffalo Water Board or from any other source, and the quantity of water used is measured by a water meter acceptable to BSA, then in each such case, the quantity of water used, as measured by said meter, shall be used to determine the sewer charge or rental, and the charge for such use shall be as follows:

1. $48.30 for 0 to 4,000 cubic feet of water used per quarter year, if the meter is read quarterly, and any water used in excess thereof shall bear a sewer charge or rental of $11.09 per thousand cubic feet ($.0111 per cubic foot).
2. $16.10 for 0 to 1,333 cubic feet of water used per month, if the meter is read monthly, and any water used in excess thereof shall bear a sewer charge or rental of $11.09 per thousand cubic feet ($.0111 per cubic foot).

1.5.3.5 Flat Rate Water Use Rents

If a customer is a user of water supplied by the Buffalo Water Board, and the quantity of water used is not measured by a water meter acceptable to BSA, then the sewer charge or rental for all such accounts shall be determined through a table of descriptors (building height, fixtures, etc.).

1.5.3.6 Industrial Waste

As a condition of a Buffalo Discharge Elimination System Permit (BPDES), a user may be required to pay an industrial waste surcharge for discharging sewage or waste exhibiting a strength of sewage or waste greater than normal domestic sewage.

1.5.3.7 Outside City Districts

BSA currently has seven service contracts with municipalities and sewer districts outside the city limits. These districts are billed for their share of costs allocable to the treatment of their flow to the treatment plant. Allocable costs include portions of administrative expenses, Treatment Facility expenses, Industrial Waste expenses, the costs to maintain trunk sewers, and debt service costs. The municipality or district is billed twice annually for services. The municipality or district is billed, not individual property owners. Intermunicipal agreements (IMAs) with each Outside City District covers flow measurement. Under the IMAs,

each District is responsible for installing and maintaining meters at BSA city lines. BSA has rights to challenge accuracy of meters including installing test meters.

- Erie County Sewer District #1 connects to the Buffalo Sewer System through a 36" main on Mineral Springs Road at the City/Town line. Flows from this district are measured through a metering station located just to the east of the I-90 highway overpass of Mineral Springs Road.
- Erie County Sewer District #4 connects into the Buffalo Sewer Interceptor System through a 66" main at Bailey and Seneca Streets. There is one upstream Buffalo Sewer connection to this line at Cable Street and the Buffalo River through a 10" combined sewer. The flows from Erie County Sewer District #4 are measured at a Metering Station located at 75 South Pierce Street.
- The Town of Cheektowaga discharges to the Buffalo Sewer System through a 48" sewer connection the Scajaquada Tunnel in Schiller Park at the City/Town line. Flows are measured through a metering station at the point of interconnection.
- The Village of Sloan connects to the Buffalo Sewer System through three distinct connections: an 18" sanitary sewer connection to a 20" combined sewer on Vanderbilt Street at the City Line; an 8" sanitary sewer connection to the 15" combined sewer at the intersection of Richard and Cambria; and a 12" sanitary sewer connection to a 15" combined sewer at Richard Drive and the City line. The Village of Sloan is required to operate and maintain flow metering devices and provide records upon request for the first two connections and for the last charges are based on water usage.
- West Seneca Sewer Districts 1, 2, and 10 connect to the Buffalo Sewer System through a 20" sanitary sewer that discharges to a 20" combined sewer at Wildwood Avenue and Beyer Place. West Seneca Sewer District 3 discharges through a 10" sanitary sewer connection to the 10" combined sewer at Edson Street at the City line. West Seneca Sewer District 4 discharges to the Buffalo Sewer System through a 10" combined sewer connection at Duerstein and the City line. West Seneca Sewer District 9 discharges to the Buffalo Sewer System through a 12" sanitary sewer connection to a 12" combined sewer at Burch Street at the City line. The Town of West Seneca is required to operate and maintain flow metering devices for all points of interconnection.
- West Seneca Town Sewer Districts 5, 13, and 14 discharge to Buffalo Sewer through a 36" sanitary sewer which connects into the Buffalo Sewer System at its intersection with a 42" main in Cazenovia Park approximately 300 feet southeast of Cazenovia Parkway. The Town of West Seneca is required to operate and maintain flow metering devices this point of interconnection.
- West Seneca Sewer District connects to Buffalo's Sewer System through a 10" sanitary connection at Pierce and Casimir Streets. The Town of West Seneca is required to operate and maintain a flow metering device at this point of interconnection.

Debt service costs are allocated to outside City Districts based on historic flows to the treatment plant.

1.5.3.8 Miscellaneous Fees and Charges

Miscellaneous fees and charges include drainage connection service charges, waste hauler charges, interest charges on overdue bills and other fees and charges typical of a wastewater utility.

1.5.3.9 State and Federal Aid

BSA pursues State and Federal aid when available and appropriate. Although BSA will continue to pursue State and Federal aid throughout the projection period, this projection does not anticipate receiving State or Federal aid between FY 25 and FY 28.

1.5.4 Debt Service

The principal and interest payments on the outstanding bonds over the projection period are shown in **Table 1-6**.

Table 1-6: Debt Service Schedule FY2024-2028

Debt Service Schedule					
	FY24	FY25	FY26	FY27	FY28
Series J	$ 417,781	$ 415,467	$ 407,685	$ 409,478	$ 395,693
Series K	$ 281,725	$ 278,535	$ 279,992	$ 275,848	$ 271,450
Series L	$ 521,963	$ 513,424	$ 504,574	$ 500,297	$ 495,483
Series M	$ 494,093	$ 493,332	$ 486,666	$ 484,312	$ 476,270
Series N	$ 1,599,340	$ 1,581,570	$ 1,566,848	$ 1,545,427	$ 1,527,224
Series O	$ 218,948	$ 222,597	$ 226,231	$ 229,895	$ 233,544
2021 EIB	$ 2,669,488	$ 2,670,288	$ 2,669,088	$ 2,665,888	$ 2,666,888
(18) Proposed 2024 EFC $39M				$ 2,100,000	$ 2,100,000
Proposed 2026 EFC $70M					$ 3,800,000
Total Debt Service	$ 6,203,338	$ 6,175,213	$ 6,141,084	$ 8,211,145	$ 11,966,552

A portion of the interest for the 2024 EFC issue will be prepaid and the first debt service payment will be made after June 30, 2026.

SECTION 2 ALTERNATIVE ANALYSIS

Several alternatives were evaluated to address the annual overflow volume and activations tributary to CSO-053, which is the Scajaquada Drain outlet to Scajaquada Creek in Forest Lawn Cemetery. The combined sewer system in this tributary area collects flow from the neighborhoods east of this location to the City border with the Town of Cheektowaga, with most of the tributary area located north of Fougeron Street and south of Kensington Expressway (Route 33). Alternatives considered for achieving the targeted number of four activations to Scajaquada Creek included the following:

- Doing Nothing
- Implementing Green Infrastructure
- Separation of Sanitary and Storm Sewers
- Deep Tunnel Storage

Each alternative was evaluated by Arcadis in BSA's collection system model. Results were then used by the various design consultants to develop the most cost-effective and optimal strategy for achieving the target activations for the area tributary to CSO-053. The following SPPs are upstream of CSO-053 and were considered in the alternative evaluation:

- SPP 165B - at the intersection of East Delavan Avenue and Humboldt Parkway
- SPP 175 - at the intersection of Michigan Avenue and Dodge Street
- SPP 176 - at the intersection of Michigan Avenue and Riley Street
- SPP 177 - at the intersection of Michigan Avenue and Glenwood Avenue
- SPP 336B - on northbound Humboldt Parkway north of Sidney Street
- SPP 337 - at the intersection of Colorado Avenue with Scajaquada Street
- SPP 338 - near the intersection of Bailey Avenue with Kerns Avenue
- SPP 340 - on Hagen Street north of Kerns Avenue
- SPP 341A - Genesee Street just east of the intersection with Kerns Avenue

2.1 Do Nothing (Status Quo Alternative)

Under this alternative, no improvements would be made within this area over the existing conditions. **Table 2-1** shows the number of overflows and overflow volumes projected at each SPP, using the typical precipitation year used in the approved LTCP. While a few of the SPPs achieve the target number of activations of four within this tributary area, several do not. Therefore, improvements would need to be made to reduce the number of activations down to four

Table 2-1: Status Quo Alternative – Projected Number of Overflows and Associated Overflow Volumes

SPP	Overflow Vol. (MG)	No. of Overflow Events
165B	0.1	1
175	1.3	5
176	0	0
177	0	0
336B	92.3	36
337	26.2	19
338	33.7	19
340	41.6	16

SPP	Overflow Vol. (MG)	No. of Overflow Events
341A	10.9	14
TOTAL	206.1	**N/A**

2.2 Green Infrastructure

Green infrastructure (GI) was considered as an alternative for achieving the targeted number of activations. BSA has been passively implementing GI by accounting for reduction in impervious area as redevelopment occurs. Usually as abandoned buildings are demolished and lots are cleared, the reduction in impervious area is accounted for as potential GI within the sewershed. Annually, the model is updated with new impervious and pervious areas for each sub-sewershed based on the properties addressed.

Various model runs were performed that implemented different levels of control, in terms of acreage. For the purposes of this evaluation, it was assumed that the GI to be implemented would be permeable pavement, as the reduction in impervious area that BSA is achieving with lot demolitions is not enough significantly impact the number of CSO activations. **Table 2-2** summarizes the acreage that would need to be controlled at different control levels ranging from 20% to 100%.

Table 2-2: Summary of Area to be Controlled via Green Infrastructure

Impacted SPP	Total Tributary Area Controllable by Permeable Pavement (ac)	20% Control (ac)	40% Control (ac)	60% Control (ac)	80% Control (ac)	100% Control (ac)
165B	42.4	8.5	17	25.4	33.9	42.4
175	205.2	41	82.1	123.1	164.2	205.2
176						
177						
336B	603.5	120.7	241.4	362.1	482.8	603.5
337	332.8	66.6	133.1	199.7	266.2	332.8
338	756.4	151.3	302.6	453.8	605.1	756.4
340	293.8	58.8	117.5	176.3	235	293.8
341A	89.9	18	36	53.9	71.9	89.9

Based on model runs, the levels of GI required varies, as shown in **Table 2-3**. It is particularly noted that even with the implementation of GI within the CSO-053 to control 100% of the tributary area not currently connected to storm sewers, that the projected number of activations will still exceed the targeted number of activations of 4. Therefore, even if GI were implemented, other non-GI modifications would have to be implemented to achieve compliance.

Table 2-3: Summary of Required GI Levels and Associated Costs

Impacted SPP	Percent Control Required through GI	Estimated Costs (in millions of dollars)	Notes
165B	0%	--	Target already achieved with one (1) activation predicted
175	40%	$20.8	40% GI will reduce activations from five (5) to two (2) at this SPP
176			
177			
336B	100%	$153	Even with 100% implementation of GI, the number of activations will be reduced from 36 to 12, but still not achieve the targeted number of activations at 4
337	100%	$84.4	
338	100%	$191.8	
340	100%	$74.5	
341A	100%	$22.8	
	TOTAL	**$547**	

While not achieving the target number of activations, implementation of GI as indicated in **Table 2-3** would reduce the overflow volumes from approximately 206 MG to 82 MG in the typical precipitation year. However, the total cost would be in the range of $547 million, without achieving the targeted number of activations. Therefore, the use of GI as the main mechanism for achieving compliance was not considered further.

2.3 Sewer Separation

The sewer separation alternative would involve the installation of new sanitary sewers and building lateral connections within the CSO-053 tributary area to convey sanitary-only flows to the treatment plant. The existing combined sewers will be converted to storm sewers and existing catch basins and roof drains from homes and buildings would remain connected to the storm drainage system.

This alternative is best modeled assuming certain percentages of storm runoff would be redirected from the existing combined sewers to dedicated storm sewers. For the purposes of this evaluation, model runs were configured to redirect 20%, 40%, 60%, 80% and 100% of runoff to separate storm sewers, where 100% assumes that all sewers within the CSO-053 tributary area are separated into sanitary and storm sewers. The same acreage as shown in **Table 2-2** for GI applies. The result of the model runs for the impacted SPPs are shown in **Table 2-4**.

Table 2-4: Summary of Overflow Volumes and Activations at Various Levels of Redirection of Flows to a Separate Storm System

Impacted SPP	Required Street Redirection	Base		20% Redirection		40% Redirection		60% Redirection		80% Redirection		100% Redirection	
		OF Vol. (MG)	OF #	OF Vol. (MG)	OF #	OF Vol. (MG)	OF #	OF Vol. (MG)	OF #	OF Vol. (MG)	OF #	OF Vol. (MG)	OF #
165B	Base	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1
175	40	1.3	5	1.1	5	0.9	4	0.6	3	0.5	3	0.2	1
176		0	0	0	0	0	0	0	0	0	0	0	0
177		0	0	0	0	0	0	0	0	0	0	0	0
336B	Not achieved even with 100%	92.3	36	66.8	30	44.2	20	25.7	15	10.6	13	2.6	5
337	Not achieved even with 100%	26.2	19	20.7	16	15.8	16	11.4	15	7.6	12	5.5	11
338	80	33.7	19	23.6	15	14.7	13	7	8	2.2	4	0	0
340	100	41.6	16	31.9	13	20.6	10	12.4	8	7	6	2.8	4
341A	80	10.9	14	5.9	11	3.9	9	2.2	6	1.2	4	0.5	3

Based on the results of the BSA collection system model runs, while some 100 percent sewer separation does not comply with the annual target activations requirement (i.e., 4 activations), with activations at 336B and 337 still resulted in a projected number of overflows in the typical year of 5 and 11, respectively.

Table 2-5: Summary of Required Sewer Separation Levels and Associated Costs

Impacted SPP	Percent Control Required through Sewer Separation	Estimated Costs (in millions of dollars)	Notes
165B	0%	--	Target already achieved with one (1) activation predicted
175	40%	$12.3	Activated reduced from 5 to 4 at this SPP
176			
177			
336B	100%	$90.3	Target not achieved even with 100% sewer separation
337	100%	$49.8	Target not achieved with 100% sewer separation
338	80%	$90.6	Activations reduced from 19 to 4
340	100%	$44.0	Activations reduced from 16 to 4
341A	80%	$10.8	Activations reduced from 14 to 4
	TOTAL	**$297**	

To perform sewer separation of the entire sewer shed, each street of the CSO-053 sewer shed will require construction work to implement the new collection and conveyance piping. This amount of construction and disturbance to the neighborhood would present challenges.

2.4 Deep Tunnel Storage

This alternative includes building offline storage in the form of deep tunnels well below the existing combined sewer system, similar to what is currently present as the Scajaquada Tunnel. Overflow from each of the SPPs would be redirected into drop shafts and into a new tunnel for storage. Given the significant depth of a Tunnel, this option would also need a dewatering pump station and force main to return stored flow to the collection system following the rain event.

To control to the target number of activations of 4 activations during the typical precipitation year for each SPP, a tunnel would need to be sized as follows:

- Length - 25,400 linear feet
- Diameter - 12 feet
- Adit lengths and diameters as shown below
- Associated drop shafts at each SPP
- Dewatering pump station sized to dewater the storage tunnel within 24 hours after the rain event, resulting in a total annual dewatered volume of 265 million gallons

Table 2-6: Summary of Adit Connections to New Deep Tunnel

SPP	CSO	Adit Length (ft)	Adit Diameter (ft)
SPP175	053	5435	2
SPP229A	053	15	2
SPP333	053	600	4
SPP336B	053	410	5
SPP337	053	15	5
SPP338	053	15	4
SPP339	053	15	3
SPP340	053	60	5
SPP341A	053	560	3

Based on the tunnel dimensions given above, the estimated capital cost is approximately $324.9 plus approximately $1M per year in operations and maintenance costs for the dewatering pump station. While the deep tunnel alternative could achieve compliance with the required level of activations, the capital and operation and maintenance are greater than the SPP Modifications and Off-Line Storage alternative, so the deep tunnel was not evaluated further. This is the only alternative in which modification of SPP333 is needed; the other alternatives do not require any modification of that SPP.

2.5 SPP Modifications and Off-Line Storage

This alternative includes a combination of SPP modifications and off-line storage facilities as shown in **Table 2-7**. Each project was assessed within the collection system like the alternatives noted above and modifications to the model were made to fine-tune the recommendations. In some cases, several iterations were completed to determine the most appropriate modifications. However, if the targets could be achieved by a simple weir elevation change, this modification was recommended as it provided a simple, cost-effective improvement to reduce flows, and more extensive improvements were not evaluated. These improvements achieved four activations or less at each SPP in the typical year as shown in **Table 2-8**.

Table 2-7: Summary of SPP Modifications and Off-Line Storage

Impacted SPP	Description of Project	Estimated Cost (in millions of dollars)	Notes
165B	Replacement of 1000 LF of 24-inch pipe with 36-inch pipe and expansion of the junction chamber	---	Further evaluations during final design deemed this project unnecessary
175	Increasing weir heights in the three SPPs	$0.27	
176			
177			
336B	Constructing a 3.26 MG buried concrete tank, diversion structure and tank inlet and outlet sewers	$44.62	Design being refined from an off-line storage tank to a real-time control structure
337	Installation of a new vortex-style drop shaft to the Scajaquada	$15.60	

Impacted SPP	Description of Project	Estimated Cost (in millions of dollars)	Notes
	Tunnel to accommodate a peak flow of 48 MGD		
338	Installing longer/higher weir within the SPP	$0.32	Project removed from this set of projects and moved into an existing project with work in the same location as a change order
340	Constructing a 2.61 MG buried concrete tank, diversion structure and tank inlet and outlet sewers	$38.6	
341A	Installation of a new vortex-style drop shaft to the Scajaquada Tunnel to accommodate a peak flow of 26.4 MGD	$8.54	
	TOTAL	**$94.82**	

Table 2-8: Summary of Expected Activations and Number of Overflows Under this Alternative

Impacted SPP	Baseline		Proposed LTCP Projects	
	OF Vol. (MG)	OF Events	OF Vol. (MG)	OF Events
165B	0.1	1	0	0
175	1.3	5	0	0
176	0	0	0	0
177	0	0	0	0
336B	92.3	36	4.8	2
337	26.2	19	1.8	4
338	33.7	19	0	0
340	41.6	16	0.2	1
341A	10.9	14	0	0

2.6 Alternative Analysis Summary – CSO 053 Basin

The evaluation of Green Infrastructure, Sewer Separation, Deep Tunnel Storage and SPP Modifications and Off-Line Storage found that the SPP Modifications and Off-Line Storage was the most cost-effective alternative for meeting the 4-overflow level of activation required during the typical precipitation year for the CSO 053 basin. The other alternatives either could not comply with the required level of activations or had capital cost that were orders of magnitude greater than the selected alternative.

2.7 Analysis of Alternatives – SPP 336B – Sidney and Lark

The prior section summarized the alternative analysis for the larger CSO Basin and identified that SPP Modifications and Off-Line Storage were the most cost-effective solution for this area. This subsection of the report summarizes an additional level of alternative analysis to determine the optimal configuration of SPP modifications, ILS or RTC. This work builds on an Alternatives Evaluation Report prepared by Xylem. The report is provided in **Appendix G**.

The four alternatives evaluated include:

- Alternative 1: Sidney and Lark Street OLS
- Alternative 2: East Ferry ILS
- Alternative 3: Sidney and Lark Street RTC
- Alternative 4: No Action

Alternative 1, Sidney and Lark Street OLS, was considered as an option since the City owned the property at the northwest corner of Sidney Street and Lark Street. The design includes the addition of a new 48" gravity sewer running east from the Humboldt Parkway Sewer for the OLS tank influent, and a 36" gravity sewer running north on Lark Street for the tank effluent. The OLS alternative was further evaluated, and during that evaluation it was determined that the primary benefit in terms of reduced level of SPP activation was captured by creating an interconnection between the Humboldt Parkway Sewer and the Scajaquada Tunnel. By creating this interconnection and including a real-time control gate at the downstream end of the OLS, the size of the OLS could be reduced while maintaining compliance with the required level of SPP activation. That resulted in the addition of Alternative 3. Alternative 3 maintains the interconnection between the two key sewers and the RTC gate but eliminates the OLS tank. Ultimately this alternative was removed due to its significantly higher capital cost and the prolonged construction impact that would have been experienced by the community.

Alternative 2, East Ferry ILS, was in the 2014 Long-term Control Plan but was removed from consideration prior to optimization. Investigations demonstrated that storage is not available in this section due to low basement and side sewer connections.

Alternative 3, the Sidney and Lark RTC, was considered after the initial LTCP evaluated the OLS tank that was originally proposed. Upon reviewing model performance, the team determined that an OLS tank was unnecessary. Instead, a RTC structure to divert flow from the 84-inch sewer in Humboldt Parkway and the 90-inch Scajaquada Tunnel Interceptor during wet weather events would maintain compliance with the required level of SPP activation. This alternative would not only reduce costs but also minimize construction disturbance to the community

The No Action alternative can also be considered as an alternative to the Sidney OLS. Choosing to make no modification here will make no reduction in CSO activations, therefore leading to no increased protection of water quality or the community. Though this is the option with the lowest cost, it does not meet the mandates of the AO and is not considered further.

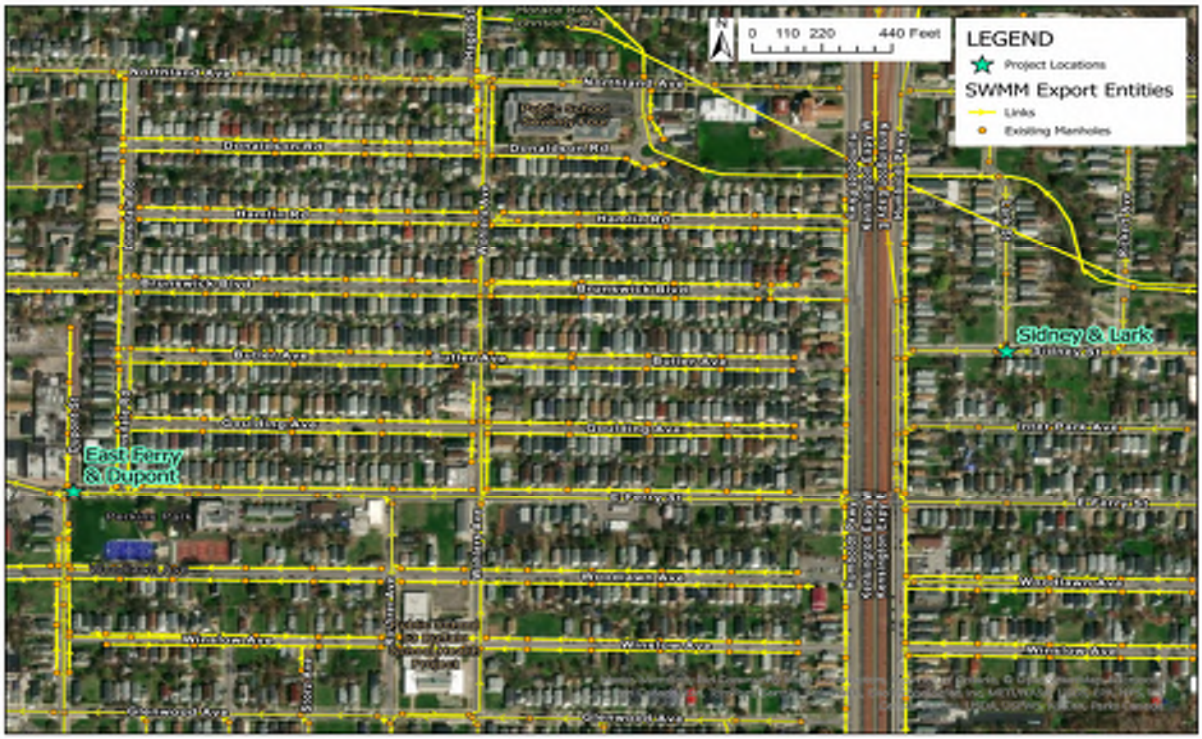


Figure 2-1: Map of Sidney and Lark and Easy Ferry and Dupont Locations

2.7.1 Opinion of Probable Construction Costs - Sidney Alternatives

Table 2-9 shows the opinion of probable construction costs for Alternatives 1 and 3 considered for CSO 53. The Class 5 estimate for Alternatives 1 and 3 are broken down in **Appendix E and Appendix H:**. The appendix also includes annual operations and maintenance costs broken down by year in addition to rehabilitation and replacement costs.

Table 2-9: Probable Construction Costs

Alternatives	OPCC (2025 in $ Million)
Alternative 1: Sidney and Lark Street OLS	44.62
Alternative 3: Sidney and Lark Street RTC	17.3

Table 2-10: Typical Year Performance at SPP336B

Scenario	Overflow Frequency	Total Overflow Volume (MG)
Existing Conditions	36	92.4
3.26 MG OLS	2	4.8
RTC	3	1.7

Table 2-10 demonstrates that both the RTC and OLS alternatives significantly reduce overflow frequency and total overflow volume compared to existing conditions. Specifically, the RTC scenario results in an overflow frequency of 3 and a total overflow volume of 1.7 million gallons (MG), while the 3.26 MG OLS scenario results in an overflow frequency of 2 and a total overflow volume of 4.8 MG. Although both alternatives show similar effectiveness in reducing overflow events and volumes, the RTC alternative is chosen due to its superior performance in minimizing total overflow volume, reflecting better overall system efficiency.

2.7.2 Non-monetary Factors Considered

Non-monetary factors considered included construction impacts on the community, specifically noise, dust, and use of existing streets during the construction phase. Other impacts include adequate staging areas, general environmental impacts, and constraints related to the Scajaquada Tunnel.

When comparing Alternative 3 (RTC) to Alternative 1 (OLS) both the monetary and non-monetary factors all favor the RTC Alternative. The construction of a deep, below grade cast-in-place -concrete OLS tank would be very disruptive to the community. The excavation would require the driving of extensive sheeting or shoring, with vibratory impacts on adjacent properties. Large amounts of rock excavation would also be required with real negative noise and dust impacts on the community. The large tank excavation would also require significant truck traffic to haul off the excavated material, damaging local roadways. In comparison to the RTC alternative the OLS tank would require extensive on-site storage for the large quantities of rebar to be placed in formed walls. While the RTC alternative will still involve deep excavations the volume and in turn the time disruption to the community will be significantly less. So combined with the lower capital cost and the comparable level of SPP activation make Alternative 3 the Recommended Alternative.

2.8 Alternatives Summary

In this section, we have explored various alternatives to address the overflow issues at SPP336B. The Do Nothing alternative was considered but found insufficient in meeting the required performance standards. Green Infrastructure and Sewer Separation were evaluated for their environmental benefits and feasibility, but they presented significant challenges in terms of implementation and cost.

The Deep Tunnel Storage option, while effective, had a significantly higher capital cost in comparison to the selected alternative. The SPP Modifications and Off-Line Storage provided the most cost-effective means of compliance with the required level of CSO activation across the CSO 053 basin.

Further Alternative Analysis was performed for the Sidney Area Alternatives with alternatives described, an Opinion of Probable Construction Costs was provided, and non-monetary factors such as environmental impact and community acceptance were also considered.

Based on the comprehensive analysis, the recommended alternative is the Sidney Street and Lark Street RTC, which provides a cost-effective means to reduce activations below the levels required in the LTCP. Section 3 will provide a detailed explanation of this recommended alternative, including its description, design parameters, and the next steps for implementation.

SECTION 3 RECOMMENDED ALTERNATIVE

3.1 Sidney Street and Lark Street RTC

Following the 30% design phase, and the initial submittal of this Preliminary Engineering Report, the project has been modified, eliminating OLS and replacing it with a RTC structure that connects the 84-inch sewer in Humboldt Parkway with the 90-inch Scajaquada Tunnel Interceptor. As the design of the OLS progressed it became clear that the primary benefit provided by the OLS tank was the creation of the interconnection between the 84-inch sewer in Humboldt Parkway and the 90-inch Scajaquada Tunnel Interceptor. Collection system modeling later confirmed that the OLS tank could be replaced with the RTC structure while maintaining the CSO Long Term LTCP specified frequency of CSO activations. As documented in Section 2 both the OLS and RTC alternatives achieved compliance with level of activations in the typical precipitation year, yet the RTC alternative had significantly less capital cost and would have fewer negative construction impacts on the community. Thus, the RTC alternatives was selected as the Recommended Alternative and is discussed in more detail within this section.

3.2 Design Parameters

The main design parameters for the site are based on average and peak flows as noted in Section1.3.4. Flow conditions are determined by SWMM modeling based on the Modified 1993 typical year and existing meters within the system.

RTC Structure at the intersection of Humboldt Parkway and Sidney Street. A cast-in-place concrete structure is envisioned to be constructed around the existing 84-inch sewer. The RTC Structure would include level monitoring equipment as well as two, 48-inch square automated gates. The gates would connect the existing SCADA network to provide remote control and allow for the balancing of wet weather flow between the 84-inch sewer in Humboldt Parkway and the 90-inch Scajaquada Tunnel Interceptor. Gates, actuators and level monitoring equipment will all be below grade in a structure within a roadway.

The RTC gates will remain closed during dry weather such that flow in the 84-inch Humboldt Parkway sewer follows its existing flow path except during more significant wet weather events when the gates open and allow flow to be partially diverted to the 90-inch Scajaquada Tunnel Interceptor. After a wet weather event subsides the gates would once again close, and all diverted flow drain to the 90-inch Scajaquada Tunnel Interceptor.

An above grade panel will be provided outside of the roadway and allow BSA access to the controls and associated components of the RTC system (PLC, SCADA connection equipment, etc.).

A 48-inch sewer will be constructed via open-cut installation from the RTC Structure approximately 770-feet to the intersection of Sidney and Lark Streets and then north on Lark Street. Terminating at a vortex drop structure to facilitate connection to the Scajaquada Tunnel Interceptor. The peak flow rate of 75 million gallons per day (MGD) is anticipated in this sewer based on collection system modeling.

A precast circular manhole is anticipated to be used to house the vortex drop insert and facilitate the connection to the Scajaquada Tunnel Interceptor.

All sewers will be designed to exceed minimum slopes in accordance with Ten States Standards Section 33.4.

The preliminary site plan is depicted in **Figure 3-1**. **Figure 3-2** and **Figure 3-3** show the existing plan and profile of the Humboldt Pkwy Sewer and Scajaquada Tunnel Interceptor.

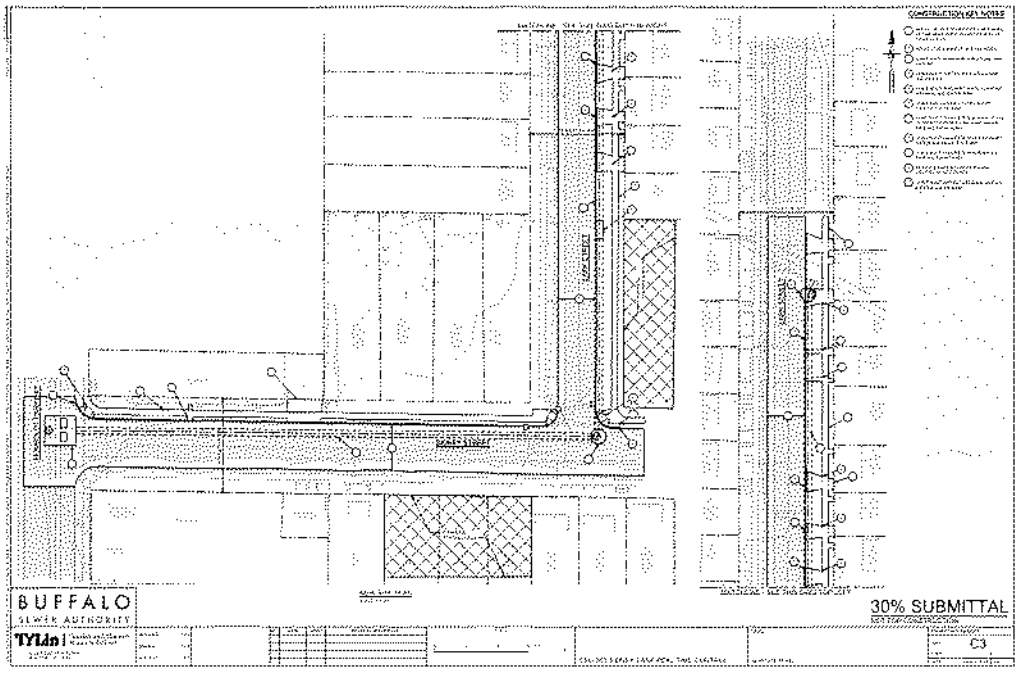


Figure 3-1: Drawing of Proposed RTC Location

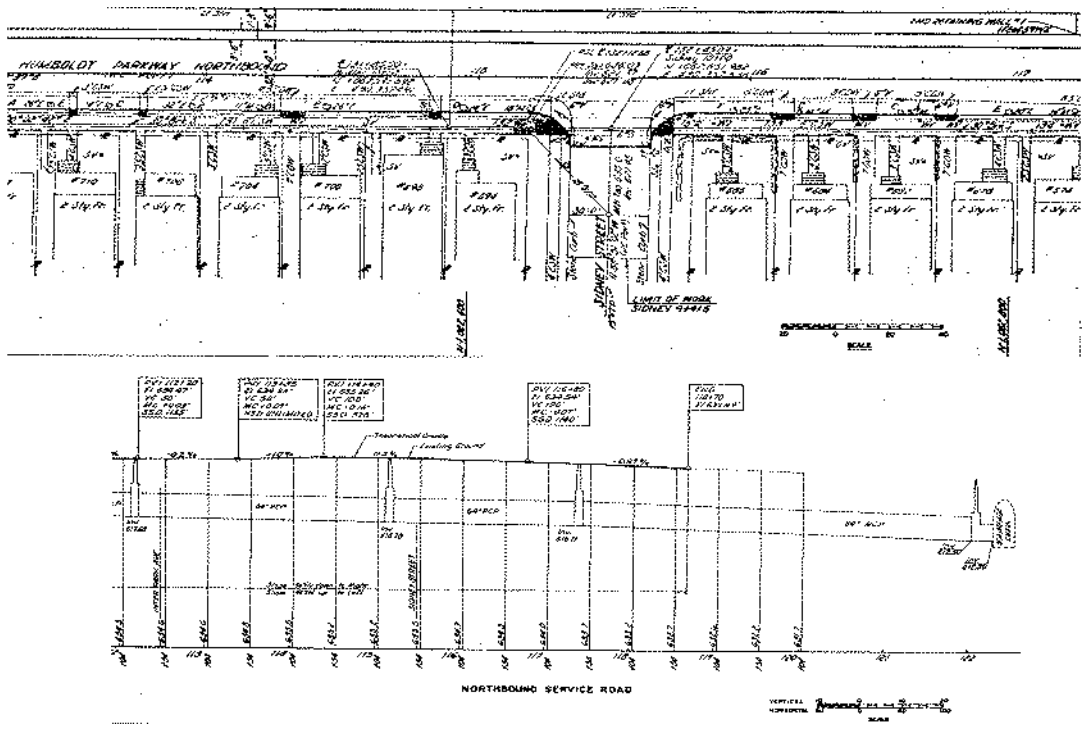


Figure 3-2: Existing Humboldt Parkway Sewer Plan and Profile

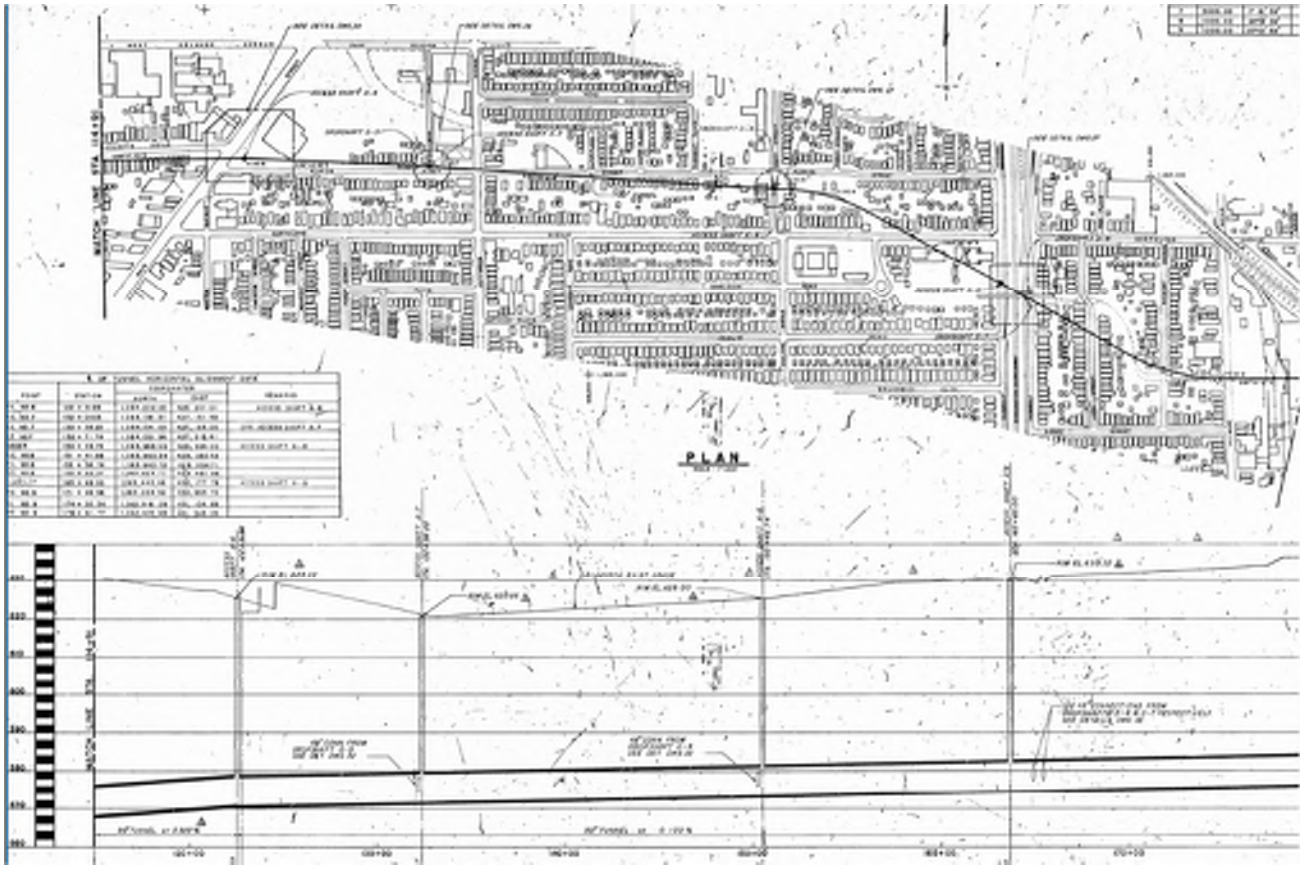


Figure 3-3: Existing Scajaquada Tunnel Interceptor Plan and Profile

3.3 Next Steps

As part of this project, potential impacts to environmental resources are being evaluated through the State Environmental Quality Review (SEQR) process. The project is an Unlisted action but will undergo a coordinated review as if it were a Type I action. Buffalo Sewer will act as the lead agency. Coordination, consultation, and permitting with state and federal agencies is concurrent with detailed design to ensure impacts to environmental resources are mitigated to the extent feasible.

This is a design/bid project, with independent prime subcontractors to be engaged.

The design of the work outlined in this report has already begun and will be completed prior to June 30, 2027. It will proceed through Summer of 2027, with regulatory review will be occurring when the design is complete. If regulatory approvals are obtained in time. Notice to proceed for construction will be issued prior to December 31, 2027, with final completion to be issued prior to December 31, 2032.The schedule is summarized in **Table 3-1**. Financing and regulatory approvals need to be secured for the Project to proceed along this timeline.

Table 3-1: Anticipated Project Schedule

Description	Anticipated Completion Date
Design Start Date	March 2, 2024
Design Completion Date	June 30, 2027
Construction Start Date	December 31, 2027
Construction End Date	December 31, 2032

Refer to **Appendix F** for the signed engineering report certification.

SECTION 4 CONCLUSION

The Buffalo Sewer Authority experiences excessive CSO activations, totaling over 3.8 billion gallons in the past two years, which contributes to the detrimental conditions of the receiving water bodies, the habitats they foster, and the communities that experience them. Buffalo Sewer has put into place a LTCP to reduce combined sewer overflows through implementation of RTCs, inline and offline storage structures, SPP modifications, and green infrastructure, in response to an AO approved in 2014 by the DEC and EPA.

The objective of this project is to reduce overflows at CSO 53 to reduce activation at the Scajaquada Creek. The recommended solution, Alternative 3, involves constructing an RTC structure to divert flow during heavy rain events. This RTC structure will monitor water levels and use control gates to balance flow between the 84-inch sewer in Humboldt Parkway and the 90-inch Scajaquada Tunnel Interceptor during wet weather events.

The total cost of the proposed work is $17.3 million in 2025 dollars.

This proposed project offers a cost-effective approach to reducing CSO activations that impact surface waters. The improvements will have several positive environmental, social, and economic impacts. By optimize conveyance within the sewer system during wet weather events, the water quality will also improve, increasing the value it can bring through both tourism and improved quality of life of the local community.

APPENDIX A: Buffalo Sewer Authority Administrative Order Issued by DEC/EPA

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 2

IN THE MATTER OF:

Buffalo Sewer Authority
1038 City Hall
Buffalo, New York 14202-3310

SPDES Permit No. NY0028410

Respondent

Amended Administrative Order for Compliance pursuant to Sections 308(a) and 309(a) of the Clean Water Act, 33 U.S.C. §§ 1318(a) and 1319(a).

AMENDED

ADMINISTRATIVE ORDER

CWA-02-2014-3033

(Amends CWA-02-2012-3024)

This Amended Administrative Order CWA-02-2014-3033 amends Administrative Order CWA-02-2012-3024 to include: developments in the enforcement action since the March 9, 2012 effective date of Administrative Order CWA-02-2012-3024; updated General Provisions to reflect current practice; and to correct a date in the Findings of Fact and Findings of Violation. The Amendments to Administrative Order CWA-02-2012-3024 reflect the developments leading up to and including the approval of Buffalo Sewer Authority's Combined Sewer Overflow Long Term Control Plan and associated implementation schedule by the United States Environmental Protection Agency and the New York State Department of Environmental Conservation. Amended provisions can be found in Paragraphs 4, 11 and 13-20 of the Findings of Fact and Findings of Violation, Paragraphs 2.a., 2.f., 3, 3.a., 3.d.ii of the Ordered Provisions and Paragraphs 1-8 of the General Provisions.

STATUTORY AUTHORITY

The following Findings of Violation and Order for Compliance ("Order") are made and issued pursuant to Sections 308(a) and 309(a) of the Clean Water Act ("CWA"), 33 U.S.C. §§ 1318(a) and 1319(a). This Authority has been delegated by the Administrator of the United States Environmental Protection Agency ("EPA") to the Regional Administrator, EPA Region 2 and further delegated to the Director of the Division of Enforcement and Compliance Assistance, Region 2, EPA.

1. Section 301(a) of the CWA, 33 U.S.C. § 1311 (a), makes it unlawful for any person to discharge any pollutant from a point source to waters of the United States, except, inter alia, with the authorization of, and in compliance with, a National Pollutant Discharge Elimination System ("NPDES") permit issued pursuant to Section 402 of the CWA, 33 U.S.C. § 1342.

2. Section 402 of the CWA, 33 U.S.C. § 1342, authorizes the Administrator of EPA to issue a NPDES permit for the discharge of any pollutant, or combination of pollutants subject to certain requirements of the CWA and conditions which the Administrator determines are necessary. The New York State Department of Environmental Conservation ("NYSDEC") is the agency with the authority to administer the federal NPDES program in New York pursuant to Section 402 of the CWA, 33 U.S.C. § 1342. EPA maintains concurrent enforcement

authority with authorized states for violations of the CWA. Additionally, under the authority granted to the NYSDEC by the EPA under Section 402(b) of the CWA, 33 U.S.C. § 1342(b), a State Pollutant Discharge Elimination System ("SPDES") permit is required to be issued to facilities by the NYSDEC for the discharge of pollutants from said facilities from a point source to a navigable water of the United States.

3. Section 308 of the Act, 33 U.S.C. § 1318, provides, in relevant part, that the Administrator of EPA may require the owner or operator of any point source to, among other things: establish and maintain such records; make such reports; install, use and monitor such equipment; sample such effluents; and provide such other information as may reasonably be required in order to carry out Section 402 of the Act, 33 U.S.C. § 1342.

4. "Person" is defined by Section 502(5) of the CWA, 33 U.S.C. § 1362(5), to include an individual, corporation, partnership, association or municipality.

5. "Municipality" is defined by Section 502(4) of the CWA, 33 U.S.C. § 1362(4), to include among other things, a city, town, borough, county, parish, district, associations, or other public body created by or pursuant to State law and having jurisdiction over disposal of sewage, industrial wastes, or other wastes.

6. "Pollutant" is defined by Section 502(6) of the CWA, 33 U.S.C. § 1362(6), to include among other things, solid waste, dredged spoil, rock, sand, cellar dirt, sewage, sewage sludge and industrial, municipal and agricultural waste discharged into water.

7. "Point source" is defined by Section 502(14) of the CWA, 33 U.S.C. § 1362(14), to include any discernible, confined and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, from which pollutants are or may be discharged.

8. "Navigable waters" is defined by Section 502(7) of the CWA, 33 U.S.C. § 1362(7), to include the waters of the United States.

9. "Discharge of a pollutant" is defined by Section 502(12) of the CWA, 33 U.S.C. § 1362(12), to include any addition of any pollutant to navigable waters from any point source.

10. Section 402(q) of the CWA, 33 U.S.C. § 1342(q), provides that each permit, order, or decree issued pursuant to the chapter after December 21, 2000, for a discharge from a municipal combined storm and sanitary sewer shall conform to the Combined Sewer Overflow Policy ("CSO Policy") signed by the Administrator on April 11, 1994.

11. The CSO Policy states that "permittees with CSOs are responsible for developing and implementing long-term CSO control plans that will ultimately result in compliance with the requirements of the CWA."

12. Section 309(a) of the CWA, 33 U.S.C. § 1319(a), authorizes the Administrator to issue an order requiring compliance or commence a civil action when any person is found to be in violation of Section 301 of the CWA, 33 U.S.C. § 1311, or in violation of any permit condition or limitation in a permit issued under Section 402 of the CWA, 33 U.S.C. § 1342.

FINDINGS OF FACT AND FINDINGS OF VIOLATION

1. The Buffalo Sewer Authority ("BSA" or "Respondent"), is a public benefit municipal corporation, organized and existing under the laws of the State of New York, and located in Buffalo, New York. BSA has authority, control over and operates the sewer system within its boundaries, including, but not limited to the combined sewer system, the sanitary sewer system, and the related wastewater treatment plant.

2. BSA is a "person" and "municipality" within the meaning of Sections 502(5) and 502(4) of the CWA, 33 U.S.C. §§ 1362(5) and 1362(4).

3. BSA has discharged and continues to discharge "pollutants" within the meaning of Sections 502(6) and 502(12) of the CWA, 33 U.S.C. §§ 1362(6) and 1362(12), from the Buffalo wastewater treatment plant and sewer system through "point sources" within the meaning of Section 502(14) of the CWA, 33 U.S.C. § 1362(14) into the Niagara River, Black Rock Canal, Erie Basin, Buffalo River, Scajaquada Creek, Cazenovia Creek, and Cornelius Creek, each of which is a "navigable water" within the meaning of Section 502(7) of the CWA, 33 U.S.C. § 1362(7).

4. The NYSDEC, under the authority of Section 402(b) of the CWA, 33 U.S.C. § 1342(b), issued SPDES Permit No. NY0028410 (the "SPDES Permit") to BSA, with an effective date of July 1, 1999. The NYSDEC renewed the SPDES permit on February 3, 2004, on June 25, 2009, and again on December 31, 2013. It is scheduled to expire on June 30, 2019. The SPDES Permit authorizes BSA to discharge pollutants from a single wastewater treatment plant outfall and fifty-eight (58) combined sewer overflow structures ("CSO structures") at locations specified in the SPDES Permit, subject to certain limitations and conditions.

5. The Schedule of Compliance in the July 1, 1999 SPDES Permit provided in pertinent part as follows:

   "Development of Abatement Plan for Combined Sewer Overflow

   The permittee shall develop a combined sewer overflow abatement facility plan in accordance with the Phase I Long Term CSO Control Plan requirements specified in the USEPA Combined Sewer Overflow Policy (Federal Register Vo. 59, No. 75 4/19/94).

   This Abatement Plan shall contain all of the Long Term Plan elements specified in Section II C of the National CSO Policy, and further delineated in the USEPA document, "Combined Sewer Overflows, Guidance for Long-Term Control Plan" dated September, 1995. The permittee may choose either the "Presumption" or the "Demonstration" approach for the evaluation of alternatives.

   The Abatement Plan should integrate the pollutant reduction achievable by the implementation of the CSO Best Management Practices (BMPs) as required on pages 19-21 of this permit into the long term control plan. The Department will consider work or studies already completed or currently in progress for integration into the long term control plan.

   The permittee shall submit a completed CSO Abatement Facility Plan including a schedule of implementation to the Department.

The permittee shall report to the NYSDEC progress/status of plan development in intervals not to exceed 90 days.

Upon approval of the CSO Abatement Facility Plan, the NYSDEC will propose a SPDES permit modification, pursuant to Uniform Procedures – 6 NYCRR – Part 621, to include the schedule of implementation."

6. The SPDES Permit was modified October 2, 2001 to, among other changes, modify the deadline for submittal of a CSO Abatement Plan (hereinafter either "Abatement Plan," "combined sewer overflow abatement facility plan," "Long-Term Control Plan," "LTCP" or "updated LTCP") from July 1, 2001 to July 1, 2002. On August 29, 2002, the CSO Abatement Plan deadline was amended, by permit modification, again to July 1, 2003. On January 12, 2004, the CSO Abatement Plan deadline was again amended, by permit modification, to February 1, 2004.

7. BSA failed to submit the required Abatement Plan by February 1, 2004. BSA did not submit an Abatement plan until July 14, 2004, 164 days late.

8. BSA's failure to timely submit the required Abatement Plan is a violation of the SPDES Permit and is, therefore, a violation of Section 301 of the CWA, 33 U.S.C. § 1311.

9. Under a cover letter dated April 20, 2006, the NYSDEC notified the BSA that the Abatement Plan submitted by BSA on July 14, 2004 was not acceptable in that it would not meet the water quality objectives of the CSO Control Policy and had therefore failed to satisfy the SPDES Permit requirements of a combined sewer overflow abatement facility plan, as described in paragraph 5 above. This NYSDEC cover letter required that BSA revise its LTCP accordingly and submit it to the NYSDEC by July 31, 2006. BSA failed to submit such a revised LTCP to the NYSDEC by July 31, 2006.

10. Accordingly, EPA, NYSDEC, the U. S. Department of Justice ("USDOJ"), and the New York State Office of Attorney General commenced discussions with BSA to settle the violation. The settlement was to be embodied in a Consent Decree, under the auspices of federal court, for the development and implementation of a LTCP.

11. Since those discussions were on-going, the SPDES Permit was modified, effective January 1, 2010, to include Section VIII entitled "CSO LONG-TERM CONTROL PLAN," which states the following:

"BSA submitted a CSO Long-Term Control Plan (LTCP) in July 2004 in accordance with the requirements of their SPDES permit. Currently, the USEPA, USDOJ, NYSDEC and the permittee are engaged in negotiations concerning the LTCP, and anticipate that these negotiations will result in the entry of a Consent Decree. The Consent Decree will govern the permittee's obligations in ensuring that the WWTF and the combined sewer overflow discharges comply with the requirements of the Clean Water Act and the 1994 CSO Control Policy. This permit may be modified upon the ratification of the Consent Decree in accordance with 6 NYCRR Part 621."

12. To date, however, the parties have not reached a settlement nor entered into a Consent Decree.

13. On March 9, 2012, EPA, Region 2 issued an Administrative Order, Docket No. CWA-02-2012-3024 ("2012 Order"), to BSA, to address violations of the CWA (33 U.S.C. § 1251 et seq) and NYSDEC SPDES Permit number NY0028410. The 2012 Order requires that BSA update its CSO LTCP and that the Updated CSO LTCP include a schedule for the design, construction, and implementation of all control/treatment measures selected by BSA, to be completed as expeditiously as practicable, following any applicable environmental impact assessment review, pursuant to the New York State Environmental Quality Review Act, but in any event by no later than December 31, 2027.

14. In accordance with the 2012 Order, BSA submitted an Updated CSO LTCP, dated April 30, 2012, to the EPA and the NYSDEC for review and approval. Pursuant to "Ordered Provisions," Item 2.e of the 2012 Order, based on a joint review of the Updated CSO LTCP, the EPA and the NYSDEC declined to approve the Updated CSO LTCP and provided comments to BSA in a letter dated December 6, 2012.

15. The EPA and the NYSDEC met with BSA on February 12, 2013 to discuss the EPA's and the NYSDEC's comments. BSA followed up with a letter dated March 1, 2013 which, among other things, specified that BSA would submit a No Feasible Alternatives ("NFA") analysis and submit its Green Infrastructure ("GI") Master Plan to the Agencies by August 2, 2013, and would meet with the Agencies on or about August 15, 2013 to discuss those submittals.

16. Technical representatives of the EPA and the NYSDEC met with BSA to specifically discuss BSA's GI Master Plan on August 20, 2013. BSA followed up by providing the EPA and the NYSDEC with further information on its GI Master Plan on August 28, 2013. The EPA and the NYSDEC determined that an analogous technical meeting to discuss BSA's NFA analysis was not needed and indicated this to BSA in an email transmission dated September 11, 2013.

17. In a letter dated October 23, 2013 from EPA to BSA, EPA provided BSA with final written comments on BSA's Updated CSO LTCP. BSA was given until January 10, 2014 to submit its final revised CSO LTCP to EPA and NYSDEC. EPA's letter dated October 23, 2014 required that BSA provide a detailed implementation schedule as part of its final revised CSO LTCP and, based partly on work to be completed at the BSA wastewater treatment plant which was not originally contemplated, allowed a twenty year implementation schedule.

18. On January 10, 2014, BSA submitted its final revised CSO LTCP to EPA and to NYSDEC for review and approval. The final revised CSO LTCP includes a twenty year schedule.

19. In a letter dated March 18, 2014, EPA and NYSDEC approved BSA's final revised CSO LTCP. The approved CSO LTCP includes a twenty year implementation schedule, which is beyond the final compliance date of December 31, 2027, required by the EPA's 2012 Order.

20. Therefore, based on the above, EPA is issuing Amended Administrative Order, Docket No. CWA-02-2014-3033, to incorporate a twenty year implementation schedule and a final compliance date of March 18, 2034.

ORDERED PROVISIONS

Based on the Findings of Fact and Findings of Violation set forth above, and pursuant to the authority of Sections 308(a) and 309(a) of the CWA, 33 U.S.C. §§ 1318(a) and 1319(a), and in accordance with Section 402(q) of the CWA, 33 U.S.C. § 1342 (q), it is hereby ORDERED that:

1. Immediately upon receipt of the original copies of this Order, a responsible official of BSA shall complete and sign the acknowledgment of receipt of one of the originals of the Order and return said original to the Chief, Compliance Section, Water Compliance Branch, Division of Enforcement and Compliance Assistance, in the enclosed envelope to the address listed below.

2. Development of Updated Long Term Control Plan: BSA shall revise and implement an approved Updated LTCP consistent with the requirements of the CSO Policy and applicable State law and regulation. The Updated LTCP shall provide for the construction and implementation of all wastewater treatment plant ("WWTP") and sewer system improvements and other measures necessary to ensure that: (i) CSO discharges from all CSO discharge outfalls comply with the technology-based and water quality-based requirements of the CWA, the CSO Control Policy and state law and regulation; and (ii) bypasses at the WWTP are in compliance with the bypass conditions in 40 C.F.R. § 122.41(m), 327 IAC 5- 2-8(11), and shall demonstrate that there are no feasible alternatives to the remaining bypasses, in accordance with Section II.C.7 of the CSO Control Policy.
   a. By no later than April 30, 2012, BSA shall submit to EPA and NYSDEC an Updated LTCP. The schedule included in the Updated LTCP shall require the design, construction, and implementation of all control/treatment measures selected by BSA as expeditiously as practicable, following any applicable environmental impact assessment review pursuant to the New York State Environmental Quality Review Act ("SEQR review"), but in any event by no later than March 18, 2034.
   b. The Updated LTCP shall include, at a minimum:
      i. An update of the system characterization information, receiving water characterization information, existing conditions information, CSO control objectives, and any other information presented in the 2004 LTCP that is no longer current;
      ii. BSA's previous screening and subsequent evaluation of individual CSO control technologies and site-specific CSO controls. The Updated LTCP shall: (1) reassess the results of that original evaluation in light of the applicability of recreation-protective bacteria standards in BSA's receiving waters; (2) include, as appropriate, new technologies and controls (such as green infrastructure ("GI") and bio-ballasted flocculation treatment) not considered in the 2004 LTCP; and (3) in particular, carry out a new evaluation of a range of updated system-wide alternatives. Together, BSA's prior and updated system-wide alternatives evaluation shall include a sufficiently wide range of alternatives for eliminating, reducing, or treating CSO discharges, and for eliminating or reducing bypass discharges (except as permitted in the bypass conditions in 40 C.F.R. § 122.41(m) and 327 IAC 5-2-8(11)). The updated evaluation shall consider the costs and effectiveness (in terms of reduction in number of overflow events, overflow volume reduction, pollutant loading reductions, water quality improvements, etc.) predicted to result from implementation of each of the updated system-wide alternatives.

iii. In evaluating the relative performance of the updated system-wide alternatives and in selecting a preferred alternative, BSA shall give the highest priority to controlling overflows to sensitive areas as required under the CSO Control Policy, at section II.C.3.

iv. BSA's Updated LTCP shall include past and current alternative evaluation efforts that together include at a minimum: (1) taking no-action; (2) complete sewer separation (3) partial separation of various portions of the combined sewer system; (4) installation of various sizes of storage or equalization basins at the Buffalo Sewer Authority WWTP and/or in the sewer system; (5) construction of new secondary or advanced wastewater treatment plants; (6) construction of increased treatment capacities at the existing facilities; (7) construction of additional facilities (such as high rate treatment or ballasted flocculation facilities or its equivalent) for providing primary treatment or better than primary treatment of discharges from CSO discharge outfall structures; (8) construction of new intercepting sewers from the sewer system to the facilities; (9) construction of facilities for providing disinfection (and dechlorination, if necessary) of CSO discharges; (10) construction of facilities for removing floatables from CSO discharges; (11) construction of relief sewers; (12) relocation of CSO discharge outfall structures; (13) implementation of pretreatment measures to reduce flows and/or pollutants discharged into the sewer system from industrial users; (14) consideration of the use of GI where feasible, and (15) construction and/or implementation of combinations of these alternatives. These evaluations shall be carried out in accordance with Chapter 3 of EPA's "Combined Sewer Overflows Guidance for Long-Term Control Plan."

v. The Updated LTCP shall describe BSA's prior technology screening assessments and shall include, at a minimum, BSA's evaluation of the technical feasibility and applicability of each alternative or combination of alternatives at each CSO discharge outfall or grouping of CSO discharge outfalls. Where necessary, BSA shall update said assessments in light of the applicability of recreation-protective bacteria standards in BSA's receiving waters.

vi. BSA's updated evaluation of system-wide alternatives shall include:

1. An evaluation of a range of "sizes" of each updated system-wide alternative that will, for the typical year achieve an average volume of wet weather percent capture from 75 to 100 percent and reduce the average number of untreated CSO Discharge events to 0, 1-3, 4-7 and 8-12 per year. The updated LTCP shall include a detailed description of the 12 month rainfall record that BSA has utilized in developing its Updated LTCP, and that BSA will utilize in implementing its Post Construction Monitoring Program. The Updated LTCP shall describe in detail BSA's analysis of its available long term rainfall record, its basis for selecting its "typical year," and, in the event that BSA selects a "modified year" as its "typical year," shall discuss in detail all modifications made to the actual rainfall record to arrive at the "modified" rainfall record. The updated LTCP shall include a detailed tabular summary of the "modified" rainfall record, such that it is clear exactly what rainfall record shall be used in implementing the PCMP;

2. A determination of the estimated "project costs," as that term is described on pages 3-49 through 3-51 of the EPA's "Combined Sewer Overflows Guidance for Long-Term Control Plan," for each size of each updated system-wide alternative. The determination of the estimated "project costs" shall include: (a) "capital costs," "annual operation and maintenance costs," and "life cycle costs," as those terms are described on pages 3-49 through 3-51 of EPA's "Combined Sewer Overflows Guidance for Long-Term Control Plan;" and (b) an itemization of the "capital costs" and "annual operation and maintenance costs" used to determine the total "project costs" for each separate component of each alternative or combination of alternatives; and

3. An evaluation, using a validated collection system model, of the expected reduction in number of CSO events, CSO discharge volume and pollutant discharge quantity from each CSO discharge point for each size of each updated system-wide alternative. The evaluation shall include, at a minimum, an analysis of the improvement in every pollutant of concern, which are: fecal coliform in all receiving waters, and DO/BOD/SOD in the Buffalo River, Scajaquada Creek, and the Black Rock Canal.

vii. For each system-wide alternative, BSA's assessment shall include an evaluation, using water quality models, of the expected water quality improvements in the receiving waters that will result from implementation of each updated system-wide alternative. The evaluation shall include, at a minimum, an analysis of the improvement in every pollutant of concern in that receiving water.

viii. For each updated system-wide alternative, BSA shall include a cost-performance analysis, such as a "knee of the curve" analysis, for each alternative or combination of alternatives that will allow for the comparison of the costs to: (1) the associated expected water quality improvements; (2) the reduction of CSO discharge and bypass discharge volume; (3) the reduction in CSO discharge and bypass discharge events; (4) the increase in percent wet weather capture; and/or (5) the reduction in pollutant loading from CSO discharge and bypass discharge events.

ix. The Updated LTCP shall include a financial capability analysis that complies with USEPA's "Combined Sewer Overflows – Guidance for Financial Capability Analysis and Schedule Development" February 1997).

x. The Updated LTCP shall include the selection of CSO control measures, including the construction of all sewer system and facility improvements necessary to ensure compliance with the technology-based and water quality-based requirements of the CWA, state law and regulation and BSA's SPDES permit. The Updated LTCP shall include the selection of bypass discharge control measures, so as to ensure that all remaining bypasses are in compliance with the bypass conditions in 40 C.F.R. § 122.41(m), 327 IAC 5- 2-8(11), and shall demonstrate that there are no feasible alternatives to the remaining bypasses, in accordance with Section II.C.7 of the CSO Control Policy.

xi. The Updated LTCP shall include an expeditious schedule for the design, construction, and implementation of all CSO control measures selected by BSA. If it is not possible for BSA to design and construct all measures simultaneously, the Updated LTCP shall include a phased schedule based on the relative

importance of each measure, with highest priority being given to eliminating discharges to sensitive areas and to those projects which most reduce the discharge of pollutants. The schedule shall specify critical construction milestones for each specific measure, including, at a minimum, dates for: (1) submission of applications for all permits required by law; (2) start of design; (3) commencement of construction; (4) completion of construction; (5) completion of construction; and (6) achievement of full operation.

c. The alternatives evaluated should include the use of GI wherever feasible to reduce CSO volumes and handle separated storm water. GI shall generally mean systems and practices that use or mimic natural processes to infiltrate, evapotranspire, and/or harvest storm water on or near the site where it is generated. GI applications and approaches that may be considered include, but are not limited to, green roofs, downspout disconnection, trees and tree boxes, rain gardens, vegetated swales, pocket wetlands, infiltration planters, vegetated median strips, permeable pavements, reforestation, and protection and enhancement of riparian buffers and floodplains. EPA and NYSDEC encourage BSA to utilize GI projects as appropriate to reduce or replace gray infrastructure projects included in the Updated LTCP provided that any GI project proposed is anticipated to provide substantially the same or greater level of control as the alternative gray infrastructure project. Should BSA rely on other entities to implement GI projects, BSA must have in place agreements as appropriate, to ensure proper operation and maintenance of the GI project. For any GI project submitted as part of the Updated LTCP, BSA shall submit to EPA and NYSDEC a detailed GI project proposal outlining each proposed project.

   i. The GI project proposal shall be consistent with this Administrative Order and shall at a minimum include the following for each project:

      1. Data on location, sizing, design, and the performance criteria expected to be achieved with the implementation of the GI project, utilizing the information and models that BSA used in developing the Updated LTCP, and any monitoring information used in formulating the proposal; along with a demonstration of the long term effectiveness and performance expected to be achieved with implementation of the project;
      2. A description of the work required to implement the GI project and a schedule for completion of this work and implementation of the project that is consistent with this Administrative Order and the date set forth herein in Paragraph 2(a) for completion of construction and full implementation of all remedial and control measures;
      3. A description of the proposed ownership of and access to the GI project, and should BSA rely on other entities to implement the GI project, BSA must explain what agreements will be necessary to ensure proper operation and maintenance of the GI project (i.e., permanent access, sufficient control over key aspects of the project), and how they will be enforced to ensure proper operation and maintenance of the GI project; and
      4. A description of any post-construction monitoring and modeling to be performed that is necessary to determine whether the performance criteria set forth, as noted above, will be met upon completion and implementation of the GI project.

ii. Upon review of BSA's GI project proposal, EPA and NYSDEC will comment, approve, disapprove, or approve in part, the proposal:

1. BSA shall implement each GI project approved by EPA and NYDEC in accordance with the provisions and schedule in the approved proposal;
2. If the GI project proposal is approved in part, BSA shall, upon written direction from EPA and NYSDEC, take all actions in the approved portion of the GI proposal that EPA and NYSDEC determine are technically severable from any disapproved portions. For the disapproved portions, BSA shall, within 90 Days, correct all deficiencies and resubmit the proposal for approval. If the resubmission is approved in whole or in part, BSA shall proceed in accordance with this subparagraph; or
3. If the GI project proposal is disapproved, EPA and NYSDEC's decision is final. For each project which is disapproved, BSA shall propose an alternative GI project or gray infrastructure project, or combined green and gray infrastructure project, within 90 days of the date of disapproval. In the event that BSA's alternative proposal is disapproved by EPA and NYSDEC due to the GI project component of the proposal, BSA shall propose an alternative gray infrastructure project within 90 days of the date of disapproval.

iii. In the event that BSA implements an approved GI project proposal that fails to meet the specified performance criteria set forth in the project proposal and Updated LTCP, BSA shall propose, within 180 days after submittal of the applicable post-construction monitoring report documenting said failure, an additional green or gray infrastructure project designed to achieve the performance criteria with a schedule for completion of this work and implementation of the project that is consistent with this Administrative Order and the date set forth herein in Paragraph 2(a) for completion of construction and full implementation of all remedial and control measures. In the alternative, where BSA has substantially met the performance criteria, BSA may, within sixty (60) days after its knowledge of a project's failure to meet the performance criteria, petition EPA and NYSDEC for a change in the performance criteria. After consideration of any such request by BSA, EPA and NYSDEC's decision will be final. In the event that EPA and NYSDEC disapprove of BSA's request for a change in the performance criteria, BSA shall, within 180 days after EPA and NYSDEC's disapproval, propose additional control measures designed to achieve the performance criteria with a schedule for completion of this work and implementation of the Project that is consistent with this Administrative Order and the date set forth herein in Paragraph 2(a) for completion of construction and full implementation of all remedial and control measures.

iv. BSA shall submit to EPA an update on its implementation of GI projects as part of the semi-annual reports due on March 1st and September 1st of each year.

d. If BSA seeks to replace any gray infrastructure projects provided in the Updated LTCP, BSA shall submit to EPA and NYSDEC a detailed GI project proposal outlining each proposed project consistent with the requirements of Paragraph 2(c).

e. EPA and NYSDEC may approve the Updated LTCP or decline to approve it and provide written comments. Within 120 days of receiving EPA's and NYSDEC's written comments, BSA shall modify the Updated LTCP consistent with EPA's and

NYSDEC's written comments, and resubmit the Updated LTCP to EPA and NYSDEC for final approval.

f. Upon receipt of EPA's and NYSDEC's final approval of the Updated LTCP (hereinafter "Approved CSO LTCP"), BSA shall implement the measures in the Approved CSO LTCP in accordance with the schedule in the Plan, including certain milestones of which listed in the Appendix, "BSA Approved CSO LTCP Implementation Schedule," and shall complete the implementation of its Approved CSO LTCP by not later than March 18, 2034.

3. Post Construction Monitoring Plan: Within one year of approval of the Updated LTCP, BSA shall submit to EPA and NYSDEC for approval, a work plan for conducting an ongoing study or series of studies ("Post-Construction Monitoring Plan") to help determine: (1) whether the Approved CSO LTCP measures, when completed, meet all performance criteria specified in the Approved CSO LTCP; (2) whether BSA's CSOs comply with the technology-based and water quality-based requirements of the CWA, state law, the CSO Control Policy, all applicable federal and state regulations, and its SPDES Permit, for all CSO-receiving waters; and (3) whether all remaining bypasses are in compliance with the bypass conditions in 40 C.F.R. § 122.41(m), 327 IAC 5- 2-8(11), and demonstrate that there are no feasible alternatives to the remaining bypasses, in accordance with Section II.C.7 of the CSO Control Policy. The Post-Construction Monitoring Plan shall be consistent with the guidance "Combined Sewer Overflows Guidance for Long-Term Control Plan."

a. The Post-Construction Monitoring Plan shall contain a schedule for performance of the study or series of studies at key points during the course of the implementation of the remedial measures, as well as after completion of the remedial measures, specified in the Approved CSO LTCP. The Post-Construction Monitoring Plan also shall indicate the years (at least biannually) in which data generated during implementation of the Post-Construction Monitoring Plan will be submitted in the reports in Paragraph 4 to EPA and NYSDEC.

b. EPA and NYSDEC may approve the Post-Construction Monitoring Plan or may decline to approve it and provide written comments. Within ninety (90) days of receiving EPA's and NYSDEC's comments, BSA shall alter the Post-Construction Monitoring Plan consistent with EPA's and NYSDEC's comments, and resubmit the Plan to EPA and NYSDEC for final approval.

c. Upon final approval of the Post Construction Monitoring Plan, BSA shall implement, in accordance with the schedule therein, the Post-Construction Monitoring Plan. If the results of the Post-Construction Monitoring Plan indicate areas of non-compliance, BSA shall, within 120 days, (unless a different period is specified) of being requested in writing to do so, submit to EPA and NYSDEC a Supplemental Compliance Plan which includes the actions that BSA will take to achieve compliance and a schedule for taking such actions. Upon approval by the EPA and NYSDEC, BSA shall implement the Supplemental Compliance Plan, in accordance with the schedule specified in the approved Plan.

d. Within one hundred twenty (120) days after completion and implementation of the Post-Construction Monitoring Plan, BSA shall submit a Final Post-Construction-Monitoring Report to EPA and NYSDEC, for review, comment and approval, that:

i. demonstrates that BSA performed the Post-Construction Monitoring Plan in accordance with the approved Plan and schedule set forth in the approved Post-Construction Monitoring Plan; and

ii. summarizes the data collected during Post-Construction Monitoring and analyzes whether the completed control measures have met and/or are meeting the performance criteria specified in the Approved CSO LTCP; whether BSA's CSOs comply with the requirements of the CWA, state law, the CSO Control Policy, all applicable federal and state regulations, and BSA's SPDES Permits; and whether all remaining bypasses are in compliance with the bypass conditions in 40 C.F.R. § 122.41(m), 327 IAC 5- 2-8(11), and demonstrate that there are no feasible alternatives to the remaining bypasses, in accordance with Section II.C.7 of the CSO Control Policy.

e. EPA and NYSDEC may approve the Final Post-Construction Monitoring Report or may decline to approve it and provide written comments. Within sixty (60) days of receiving EPA's and NYSDEC's comments, BSA shall alter the Final Post-Construction Monitoring Report consistent with EPA's and NYSDEC's comments, and resubmit the Report to EPA and NYSDEC for final approval. Approval of the Final Post-Construction Monitoring Report only constitutes EPA's and NYSDEC's approval that the report contains the information required by this Administrative Order; it does not mean that EPA and NYSDEC believe BSA has complied with any other requirement of this Administrative Order or federal or state law.

4. Reporting Requirements

a. Semi-Annual Status Reports. Upon the effective date of this Administrative Order, until EPA and NYSDEC's approval of the Final Post-Construction-Monitoring Report, BSA shall submit written Semi-Annual Status Reports to EPA and NYSDEC. These reports shall be submitted by no later than March 1st of each year (for the "reporting period" from July 1 through December 31 of the previous calendar year) and September 1st of each year (for the "reporting period" from January 1 through June 30 of the current calendar year). The Semi-Annual Status Reports may be provided either as paper documents or in electronic format, provided that the electronic format is compatible with EPA and NYSDEC software and is accompanied by a written certification on paper in accordance with "General Provisions" Paragraph 1. The written certification must be sent via certified or overnight mail. The frequency of reports, and the reporting period, may be amended upon written agreement from EPA and NYSDEC. In each written Semi-Annual Status Report, BSA shall provide, at a minimum, the following:

i. a statement setting forth (1) the deadlines and other terms that BSA has been required to meet since the date of the last statement; (2) whether and to what extent BSA has met those requirements; and (3) the reasons for any noncompliance (notification to EPA and NYSDEC of any anticipated delay shall not, by itself, excuse the delay);

ii. (1) a general description of the work completed within the prior reporting period; (2) to the extent known, a statement as to whether the work completed in that period meets applicable design criteria; (3) a projection of work to be performed during the next six-month period; (4) notification of any anticipated delays for the upcoming six month period of time; and (5) any changes in key personnel.

iii. If any public meetings were held, the report should include a copy of any advertisements placed for the meeting, any materials or handouts, formal meeting notes, and a summary of the meeting.

iv. BSA shall also submit, with each written status report, copies (to EPA only) of all monthly monitoring reports or other reports pertaining to CSOs and bypasses that BSA submitted to NYSDEC during the reporting period.

b. Semi-Annual Status Meetings. Representatives of EPA, NYSDEC and BSA shall conduct semi-annual meetings to discuss BSA's compliance status with the provisions of this Order. These meetings shall be scheduled during the months of March or April to discuss the previous reporting period, and September or October to discuss the previous reporting period. The meetings can be conducted telephonically if agreed in writing (including electronic correspondence) by all parties in advance. The frequency of such compliance meetings may be reduced upon written agreement (including electronic correspondence) from EPA and NYSDEC.

c. Annual Post Construction Monitoring Report. Upon the effective date of this Administrative Order, until EPA and NYSDEC's approval of the Final Post-Construction-Monitoring Report, BSA shall submit annually with its September 1st Semi-Annual Reports, an Annual Post Construction Monitoring Report containing information generated in accordance with the Post-Construction Monitoring Plan. The Annual Post Construction Monitoring report may be provided either as paper documents or in electronic format, provided that the electronic format is compatible with EPA and NYSDEC software and is accompanied by a written certification on paper in accordance with "General Provisions" Paragraph 1. The written certification must be sent via certified or overnight mail. The frequency of reports, and the reporting period, may be amended upon written agreement from EPA and NYSDEC.

d. Permits or Approvals. When it is necessary for BSA to obtain a federal, state, or local permit or approval or perform SEQR review, BSA shall submit timely and complete applications, or timely perform the SEQR review, and take all other actions necessary to obtain all such permits or approvals or to ensure compliance with SEQR.

GENERAL PROVISIONS

1. Any documents to be submitted by BSA pursuant to this Administrative Order shall be signed by an official of BSA or an authorized representative of BSA (see 40 C.F.R. § 122.2) and include the following certification:

> "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."

2. All notifications, reports, submissions and communications required by this Order shall be sent by certified mail or its equivalent to the following addresses:

Doughlas McKenna, Chief
Water Compliance Branch
Division of Enforcement and Compliance Assistance
United States Environmental Protection Agency, Region 2
290 Broadway, 20th Floor
New York, New York 10007-1866

Joseph DiMura, P.E.
Director, Bureau of Water Compliance Programs
Division of Water
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-3506

Regional Water Engineer
New York State Department of Environmental Conservation
Region 9
270 Michigan Avenue
Buffalo, New York 14203-2915

3. The Respondent shall have the opportunity, for a period of twenty (20) days from the effective date of this Order, to confer, regarding the Amendments to Administrative Order CWA-02-2012-3024, with the following designated Agency Representative:

Doughlas McKenna, Chief
Water Compliance Branch
Division of Enforcement and Compliance Assistance
United States Environmental Protection Agency, Region 2
290 Broadway, 20th Floor
New York, New York 10007-1866
(212) 637-4244

4. Respondent may seek federal judicial review of this Order pursuant to Chapter 7 of the Administrative Procedure Act, 5 U.S.C. §§ 701-706.

5. This Order does not constitute a waiver from compliance with, or a modification of, the effective terms and conditions of the CWA, its implementing regulations, or any applicable permit, which remain in full force and effect. Issuance of this Order shall not be deemed an election by EPA to forego any civil or criminal actions for penalties, fines, imprisonment, or other appropriate relief under the CWA.

6. Notice is hereby given that should EPA commence an action in a United States District Court for a violation of any Ordered Provision of this Order, Respondent may be subject to (1) civil penalties up to $37,500 per day for each day of violation, pursuant to Section 309(d) of the CWA, 33 U.S.C. § 13199d); and/or (2) injunctive relief, pursuant to Section 309(b) of the CWA, 33 U.S.C. § 1319(b), as imposed by the Court.

7. If any provision of this Order is held by a court of competent jurisdiction to be invalid, any surviving provisions shall remain in full force and effect.

8. Provisions of Administrative Order CWA-02-2012-3024, incorporated herein, continue to be effective as of March 9, 2012. The Amendments to Administrative Order CWA-02-2012-3024 contained in this Order CWA-02-2014-3033 shall become effective upon the date of execution by the Director, Division of Enforcement and Compliance Assistance.

Dated: APRIL 11, 2014 Signed: _____

Dore LaPosta, Director
Division of Enforcement and Compliance Assistance

APPENDIX

BSA Approved CSO LTCP Implementation Schedule

Project Name	Project Milestones/Deadlines
Phase I Projects (see Table 11-11)	
Bird/Lang RTC Projects	Construction Start and Completion Dates: 3/17/2014 – 9/2/2014 Operations/Optimization (RTC): 9/3/2014 – 9/3/15
Foundation Projects (see Table 11-11)	
Foundation 1 - Smith Street Storage	Engineering Start: 3/18/2014 Engineering Completion: 3/18/2015 Notice to Proceed3/18/2015 Substantial Completion: 3/18/2017
Foundation 2 - SPP Optimization (20 projects)	Engineering Start: 3/1/14 Engineering Completion: 3/18/2015[1] Notice to Proceed: 3/1/14 Substantial Completion: 3/18/2017[1]
Foundation 3 - Remaining RTC (14 sites)	Engineering Start: 3/18/2016 Engineering Completion: 3/18/2023[1] Notice to Proceed: 3/18/2017 Substantial Completion: 3/18/2024[1]
Foundation 4 - Hamburg Drain Optimizations	Engineering Start: 3/18/2015 Engineering Completion: 3/18/2017[1] Notice to Proceed: 3/18/2016 Substantial Completion: 3/18/2018[1]
Foundation 4 – Hamburg Drain Storage	Engineering Start: 3/18/2028 Engineering Completion: 3/18/2030 Notice to Proceed: 3/18/2030 Substantial Completion: 3/18/2032
Green Projects (see GI Master Plan)	
Green Pilot Projects – 267-acres of GI control	Engineering Start:3/1/14 Engineering Completion: 3/18/2016[2] Construction Completion Date: 3/18/2018[2] PCM Start and Completion Dates: 3/18/2016 – 3/18/2019[2] Construction of controls for at least 134 acres will have started by 9/18/2017
Green 2 – 410-acres of GI control	Engineering Start: 3/18/2019 Engineering Completion: 3/18/2023[2] Construction Completion Date: 3/18/2024[2] Construction of controls for at least 205 acres will have started by 3/18/2022[2]

Green 3 – 375-acres of GI control	Engineering Start: 3/18/2023 Engineering Completion: 3/18/2028[2] Construction Completion Date:3/18/2029[2] Construction of controls for at least 188 acres will have started by 9/18/2026[2]
Green 4 – 263-acres of GI control	Engineering Start: 3/18/2028 Engineering Completion: 3/18/2033[2] Construction Completion Date:3/18/2034[2] Construction of controls for at least 132 acres will have started by 9/18/2031[2]
WWTP	
WWTP Improvements Project – Alternative C2 (two consecutive projects)	Engineering Start: 3/18/2015 Engineering Completion: 3/18/2019[1] Notice to Proceed: 3/18/2017 Substantial Completion 3/18/2022[1]
Gray Projects (see Section 12.3)	
CSOs 014/15 – In-line storage and optimization	Construction Start: 3/18/14 Substantial Completion: 3/18/15
CSO 013 – Satellite storage, conveyance, FM & PS	Engineering Start: 3/18/2019 Engineering Completion: 3/18/2020 Notice to Proceed: : 3/18/2020 Substantial Completion: 3/18/2022
North Relief – Interceptor	Engineering Start: 3/18/2019 Engineering Completion: 3/18/2022 Notice to Proceed: 3/18/2022 Substantial Completion: 3/18/2026
CSOs 010, 008/010, 061, 004 – Underflow capacity upsizing	Engineering Start: 3/18/2021 Engineering Completion: 3/18/2023 Notice to Proceed: 3/18/2023 Substantial Completion: 3/18/2024
SPP 337 (CSO 053) – Satellite storage, conveyance, FM & PS	Engineering Start: 3/18/2023 Engineering Completion: 3/18/2025 Notice to Proceed: 3/18/2025 Substantial Completion: 3/18/2027
SPP 336 a+b (CSO 053) – Satellite storage, conveyance, FM & PS	Engineering Start: 3/18/2024 Engineering Completion: 3/18/2026 Notice to Proceed: 3/18/2026 Substantial Completion: 3/18/2029

Jefferson & Florida (SPP 170B – CSO 053) – Satellite storage, conveyance and FM	Engineering Start: 3/18/2025 Engineering Completion: 3/18/2027 Notice to Proceed: 3/18/2027 Substantial Completion: 3/18/2030
CSO 055 – Satellite storage, conveyance, FM & PS	Engineering Start: 3/18/2027 Engineering Completion: 3/18/2030 Notice to Proceed: 3/18/2030 Substantial Completion: 3/18/2034
CSOs 028/044/047 - Satellite storage, conveyance, FM & PS (storage at Tops from CSO 47 west)	Engineering Start: 3/18/2028 Engineering Completion: 3/18/2031 Notice to Proceed: 3/18/2031 Substantial Completion: 3/18/2034
CSO 052 – Satellite storage, conveyance, FM & PS	Engineering Start: 3/18/2030 Engineering Completion: 3/18/2032 Notice to Proceed: 3/18/2032 Substantial Completion: 3/18/2034
CSO 064 – Satellite storage, conveyance, FM & PS	Engineering Start: 3/18/2030 Engineering Completion: 3/18/2032 Notice to Proceed: 3/18/2032 Substantial Completion: 3/18/2034
Post Construction Monitoring	
Submit PCM Plan	3/18/2015
Implement PCM	Per approved PCM Plan

NOTES:

References specified in the Implementation Schedule above refer to the Approved BSA CSO LTCP, including the Green Infrastructure Master Plan, approved by EPA and NYSDEC on March 18, 2014.

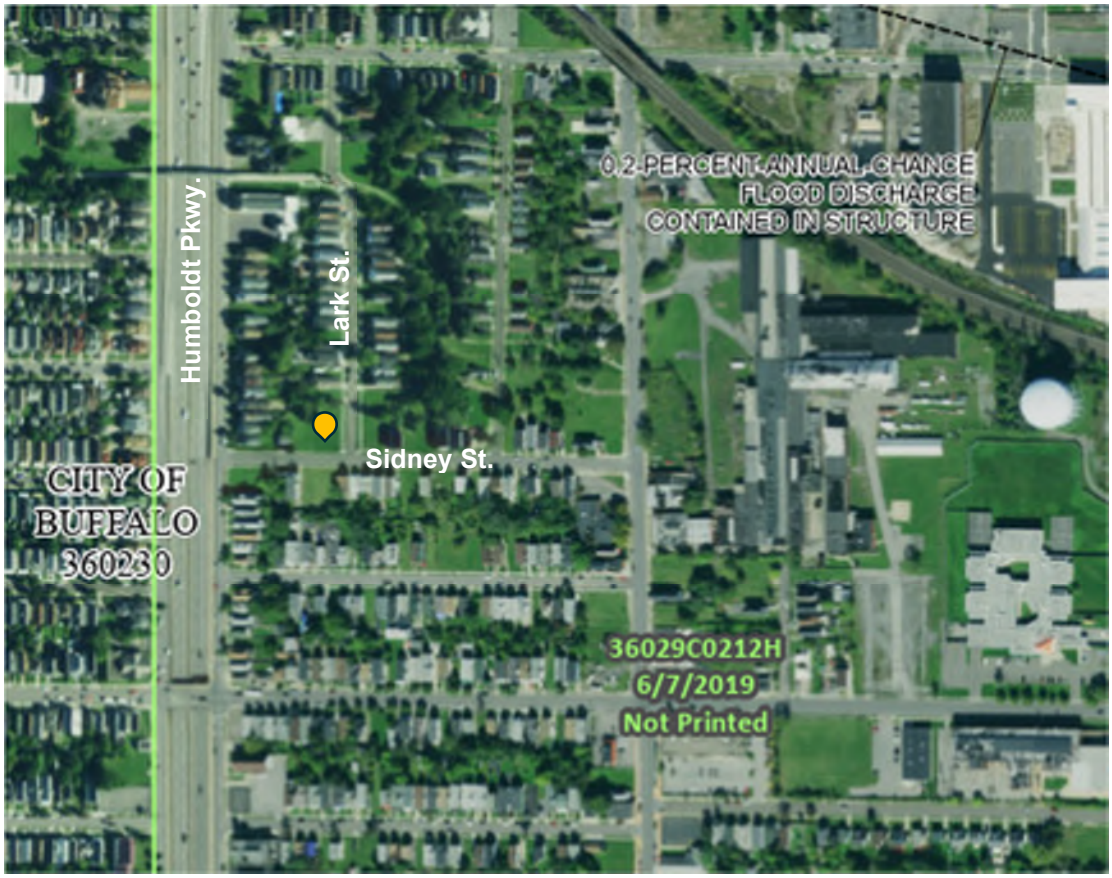
Engineering timeframes (from start to completion) include planning, design, permitting/SEQRA/Public Notice, regulatory review and approval, land/easement acquisition, funding, and bidding/award.

Substantial Completion is defined as the time at which the Project has progressed to the point where, in the opinion of Engineer, the Work is sufficiently complete, in accordance with the Contract Documents, so that the Project can be utilized for the purposes for which it is intended.

(1) Project consists of multiple smaller projects that will overlap in engineering and construction. Specific engineering completion and construction dates for each project site will determined and submitted to the Agencies as they are developed. In any case, all work associated with these blocks of projects will be completed within the overall timeframe shown.

(2) GI projects will consist of multiple smaller projects including building demolitions that will overlap in engineering and construction during a given GI phase. For each phase, the BSA will achieve the start of construction for at least 50 percent of the required acreage by the mid-point of each phase.

APPENDIX B: Flood Zone Map



APPENDIX C: IPaC Preliminary Report

IPaC **U.S. Fish & Wildlife Service**

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

NOT FOR CONSULTATION

Location

Erie County, New York

Local office

New York Ecological Services Field Office

(607) 753-9334
(607) 753-9699
fw5es_nyfo@fws.gov

3817 Luker Road
Cortland, NY 13045-9385

NOT FOR CONSULTATION

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species[1] and their critical habitats are managed by the Ecological Services Program of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries[2]).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact NOAA Fisheries for species under their jurisdiction.

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1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the listing status page for more information. IPaC only shows species that are regulated by USFWS (see FAQ).

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2. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Mammals

NAME	STATUS
Northern Long-eared Bat Myotis septentrionalis Wherever found This species only needs to be considered if the following condition applies: • This species only needs to be considered if the project includes wind turbine operations. No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9045	Endangered
Tricolored Bat Perimyotis subflavus Wherever found This species only needs to be considered if the following condition applies: • This species only needs to be considered if the project includes wind turbine operations. No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/10515	Proposed Endangered

Clams

NAME	STATUS
Salamander Mussel Simpsonaias ambigua Wherever found There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/6208	Proposed Endangered

Insects

NAME	STATUS
Monarch Butterfly Danaus plexippus Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9743	Candidate

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Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

Bald & Golden Eagles

Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act[1] and the Migratory Bird Treaty Act[2].

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats[3], should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "Supplemental Information on Migratory Birds and Eagles".

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

There are likely bald eagles present in your project area. For additional information on bald eagles, refer to Bald Eagle Nesting and Sensitivity to Human Activity

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

NOT FOR CONSULTATION

NAME	BREEDING SEASON
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Dec 1 to Aug 31
Golden Eagle *Aquila chrysaetos* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1680	Breeds Jan 1 to Aug 31

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week

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12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.

3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

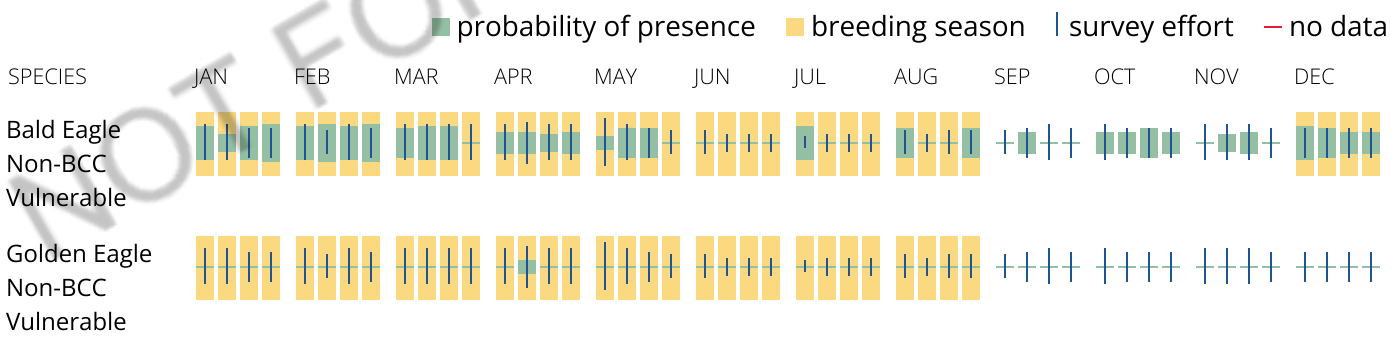
Breeding Season (▪)
Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (–)
A week is marked as having no data if there were no survey events for that week.

Survey Timeframe
Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



What does IPaC use to generate the potential presence of bald and golden eagles in my specified location?

The potential for eagle presence is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply). To see a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

NOT FOR CONSULTATION

What does IPaC use to generate the probability of presence graphs of bald and golden eagles in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur. Please contact your local Fish and Wildlife Service Field Office if you have questions.

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Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats[3] should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "Supplemental Information on Migratory Birds and Eagles".

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-

golden-eagles-may-occur-project-action

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

NOT FOR CONSULTATION

NAME	BREEDING SEASON
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Dec 1 to Aug 31
Belted Kingfisher *Megaceryle alcyon* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds Mar 15 to Jul 25
Black-billed Cuckoo *Coccyzus erythropthalmus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9399	Breeds May 15 to Oct 10
Blue-winged Warbler *Vermivora cyanoptera* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds May 1 to Jun 30
Bobolink *Dolichonyx oryzivorus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 20 to Jul 31

Canada Warbler Cardellina canadensis — Breeds May 20 to Aug 10
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Cerulean Warbler Setophaga cerulea — Breeds Apr 20 to Jul 20
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/2974

Chimney Swift Chaetura pelagica — Breeds Mar 15 to Aug 25
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Eastern Meadowlark Sturnella magna — Breeds Apr 25 to Aug 31
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

Eastern Whip-poor-will Antrostomus vociferus — Breeds May 1 to Aug 20
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Evening Grosbeak Coccothraustes vespertinus — Breeds May 15 to Aug 10
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Golden Eagle Aquila chrysaetos — Breeds Jan 1 to Aug 31
This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.
https://ecos.fws.gov/ecp/species/1680

Golden-winged Warbler Vermivora chrysoptera — Breeds May 1 to Jul 20
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/8745

Lesser Yellowlegs Tringa flavipes — Breeds elsewhere
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/9679

NOT FOR CONSULTATION

Pectoral Sandpiper Calidris melanotos — Breeds elsewhere
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Prairie Warbler Setophaga discolor — Breeds May 1 to Jul 31
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Red-headed Woodpecker Melanerpes erythrocephalus — Breeds May 10 to Sep 10
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Rose-breasted Grosbeak Pheucticus ludovicianus — Breeds May 15 to Jul 31
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

Ruddy Turnstone Arenaria interpres morinella — Breeds elsewhere
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

Semipalmated Sandpiper Calidris pusilla — Breeds elsewhere
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

Short-billed Dowitcher Limnodromus griseus — Breeds elsewhere
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/9480

Upland Sandpiper Bartramia longicauda — Breeds May 1 to Aug 31
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA
https://ecos.fws.gov/ecp/species/9294

Wood Thrush Hylocichla mustelina — Breeds May 10 to Aug 31
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

NOT FOR CONSULTATION

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read

"Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)
Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (–)
A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

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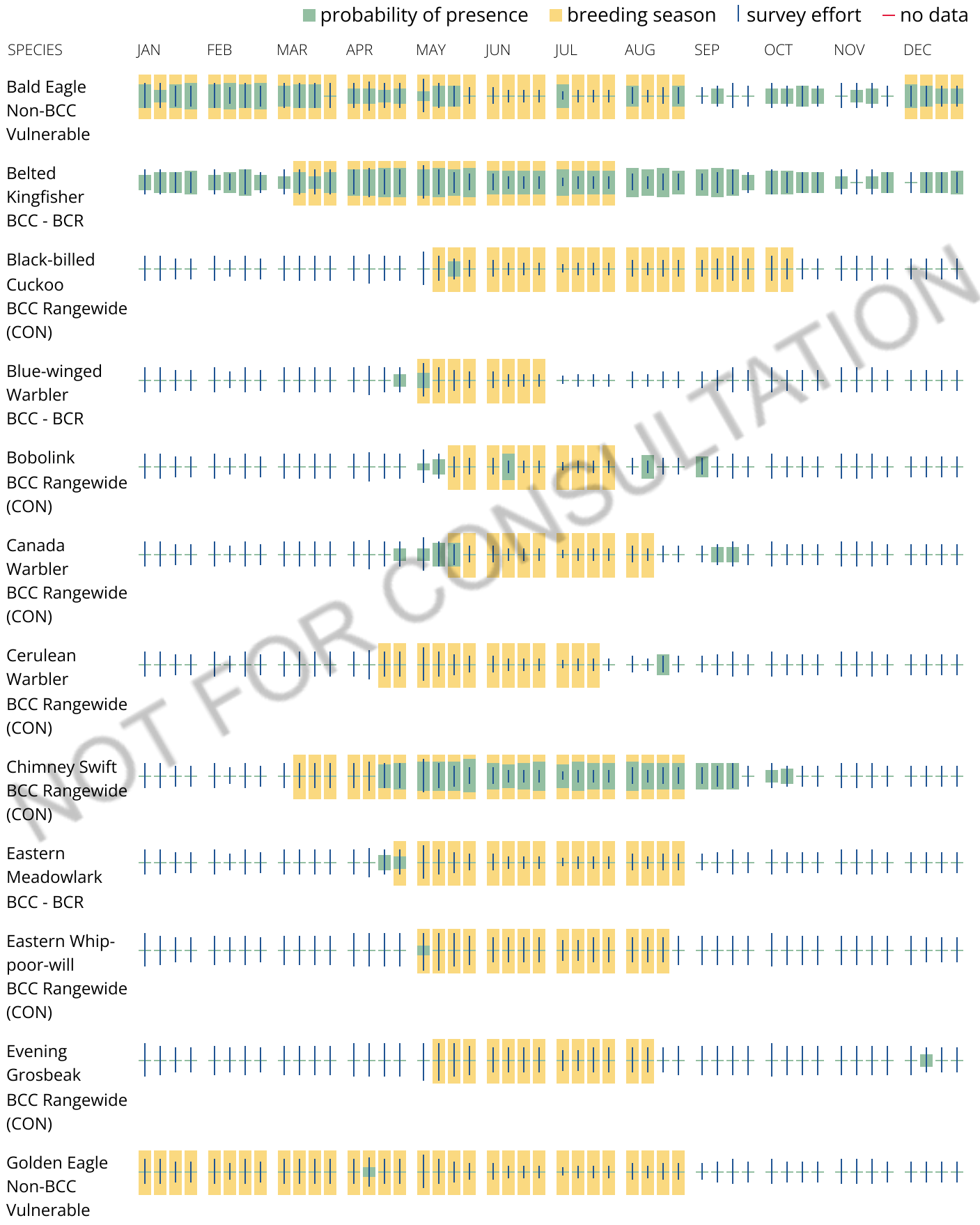
Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



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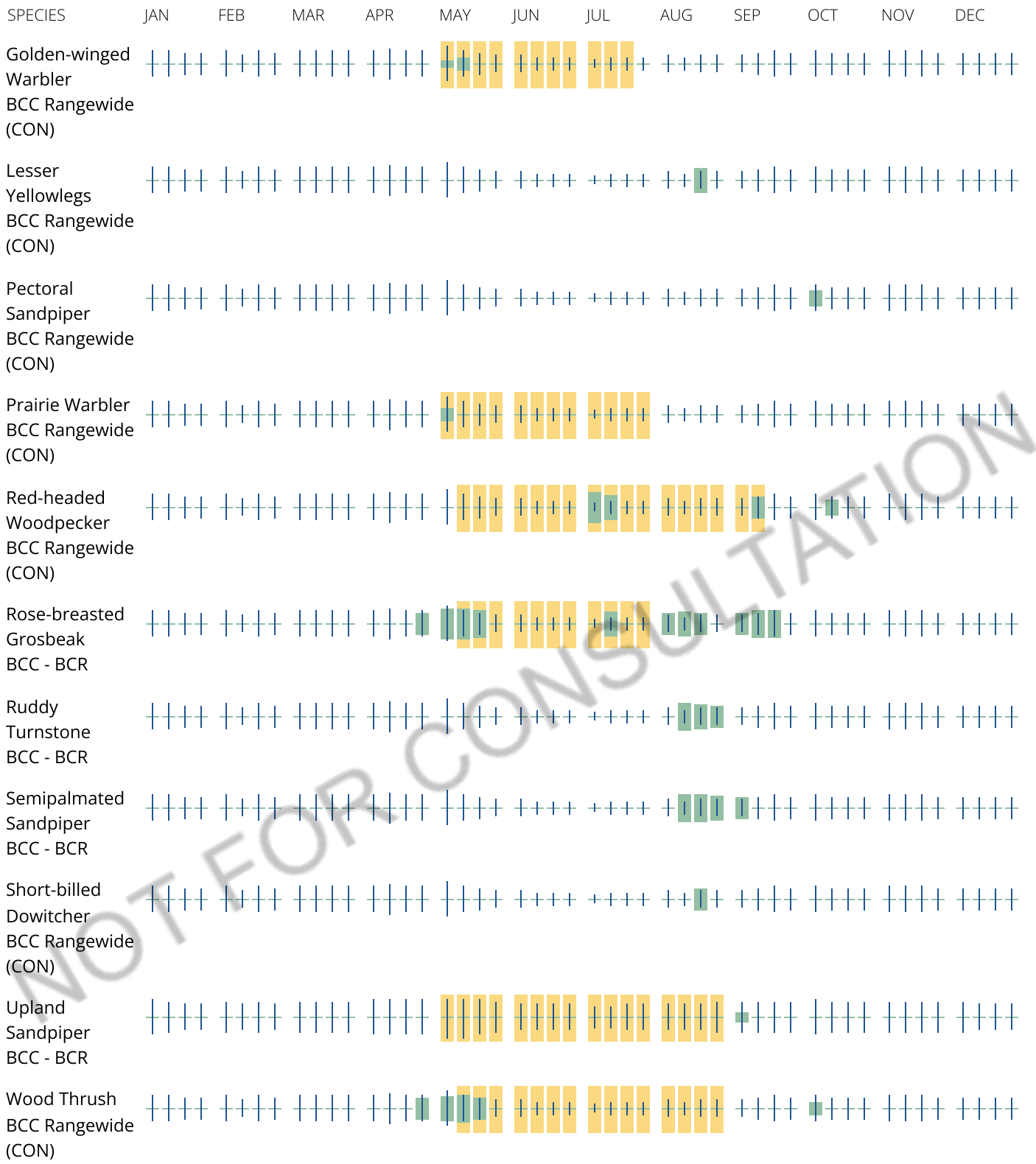

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Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure.

To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the Avian Knowledge Network (AKN). This data is derived from a growing collection of survey, banding, and citizen science datasets.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the RAIL Tool and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in

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offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the Diving Bird Study and the nanotag studies or contact Caleb Spiegel or Pam Loring.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

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Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

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This location did not intersect any wetlands mapped by NWI.

NOTE: This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

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APPENDIX D: State Pollution Discharge Elimination System (SPDES) Permit NY0028410

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

State Pollutant Discharge Elimination System (SPDES)
DISCHARGE PERMIT

First3.99

Industrial Code:	**4952**	SPDES Number:	**NY0028410**
Discharge Class (CL):	**05**	DEC Number:	**9-1402-00154/00002**
Toxic Class (TX):	**T**	Effective Date (EDP):	**07/01/2014**
Major Drainage Basin:	**01**	Expiration Date (ExDP):	**06/30/2019**
Sub Drainage Basin:	**01**	Modification Date (EDPM):	**10/01/2014**
Water Index Number:	**Ont 158**		
Compact Area:			

This SPDES permit is issued in compliance with Title 8 of Article 17 of the Environmental Conservation Law of New York State and in compliance with the Clean Water Act, as amended, (33 U.S.C. §1251 et.seq.) (hereinafter referred to as "the Act").

PERMITTEE NAME AND ADDRESS

Name: **Buffalo Sewer Authority** Attention: **David P. Comerford, General Manager**

Street: **1038 City Hall**

City: **Buffalo** State: **NY** Zip Code: **14202-3310**

is authorized to discharge from the facility described below:

FACILITY NAME AND ADDRESS

Name: **Bird Island Wastewater Treatment Facility** Contact: **James Keller Jr.,**

Location (C,T,V): **Buffalo (C)** County: **Erie**

Facility Address: **90 West Ferry Street**

City: **Buffalo** State: **NY** Zip Code: **14213**

NYTM -E: 181.42 NYTM - N: 4759.77

From Outfall No.: **002** at Latitude: **42 ° 55 ′ 16 ″** & Longitude: **78 ° 54 ′ 20 ″**

into receiving waters known as: **Niagara River** Class: **A-Special**

See additional outfalls listing on pages 3 through 5 of this permit.

in accordance with: effluent limitations; monitoring and reporting requirements; other provisions and conditions set forth in this permit; and 6 NYCRR Part 750-1.2(a) and 750-2.

DISCHARGE MONITORING REPORT (DMR) MAILING ADDRESS

Mailing Name: **Buffalo Sewer Authority**

Street: **90 West Ferry Street**

City: **Buffalo** State: **NY** Zip Code: **14213**

Responsible Official or Agent: **Sal LoTempio, Plant Superintendent** Phone: **(716) 883-1820**

This permit and the authorization to discharge shall expire on midnight of the expiration date shown above and the permittee shall not discharge after the expiration date unless this permit has been renewed, or extended pursuant to law. To be authorized to discharge beyond the expiration date, the permittee shall apply for permit renewal not less than 180 days prior to the expiration date shown above.

DISTRIBUTION:
BWP – Permit Writer
BWP – Permit Coordinator
Regional Water Engineer - Region 9
Regional Permit Administrator – Region 9
Michelle Josilo - EPA Region II

Regional Permit Administrator: David S. Denk

Address: NYSDEC - Division of Environmental Permits
270 Michigan Avenue
Buffalo, NY 14203-2915

Signature: Date: 8/20/14

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I. ADDITIONAL OUTFALLS

a) Treatment Plant

Outfall	Type	Location	Latitude	Longitude	Receiving Water
001	Primary Treatment Outfall	West Wall - Bird Island	42° 55' 10" N	78° 54' 16" W	Niagara River
01A	Headworks Bypass	West Wall - Bird Island	42° 55' 01" N	78° 54' 14" W	Niagara River
002	WWTF Outfall	West Wall - Bird Island	42° 55' 16" N	78° 54' 20" W	Niagara River

b) Combined Sewer Overflows

Outfall	Type	Location	Latitude	Longitude	Receiving Water
003	Weir & Orifice	Austin Street	42° 56' 14" N	78° 54' 26" W	Black Rock Canal
004	Leaping Weir	Bird Avenue	42° 55' 34" N	78° 53' 57"W	Black Rock Canal
005	Manhole	Potomac Avenue	42° 55' 27" N	78° 53' 27" W	Black Rock Canal
006	Weir & Orifice	W. Delevan Avenue	42° 55' 20" N	78° 53' 29" W	Black Rock Canal
007	Weir & Orifice	W. Delevan Avenue	42° 55' 20" N	78° 55' 20" W	Black Rock Canal
008	Leaping Weir	Brace Street	42° 55' 15" N	78° 54' 00" W	Black Rock Canal
009	Leaping Weir	Auburn Street	42° 55' 08" N	78° 54' 03" W	Black Rock Canal
010	Leaping Weir	Breckenridge Street	42° 55' 02" N	78° 54' 05" W	Black Rock Canal
011	Weir & Orifice	Albany St to W. Wall - Bird Island	42° 54' 49" N	78° 54' 12" W	Niagara River
012	Weir & Orifice	Albany Street	42° 54' 48" N	78° 54' 07" W	Black Rock Canal
013	Weir & Orifice	Virginia Street	42° 53' 20" N	78° 53' 37" W	Buffalo Harbor
014	Manhole	Fourth Street	42° 53' 01" N	78° 53' 12" W	Erie Basin Slip #3
015	Leaping Weir	Genesee Street	42° 52' 58" N	78° 53' 07" W	Erie Basin Slip
016	Weir & Orifice	Erie Street	42° 52' 55" N	78° 52' 57" W	Erie Basin
017	Manhole	Hamburg Drain, Main Street	42° 52' 38" N	78° 52' 47" W	Buffalo River
022	Manhole	Baltimore Street	42° 52' 23" N	78° 52' 29" W	Buffalo River
023	Manhole	Ohio Street	42° 52' 01" N	78° 52' 05" W	Buffalo River
025	Manhole	Hamburg Street	42° 51' 51" N	78° 51' 37" W	Buffalo River
026	Manhole	Smith Street	42° 51' 49" N	78° 51' 03" W	Buffalo River
027	Weir & Orifice	Babcock Street	42° 51' 48" N	78° 50' 16" W	Buffalo River
028	Manhole	Boone Street	42° 51' 38" N	78° 49' 56" W	Buffalo River

Outfall	Type	Location	Latitude	Longitude	Receiving Water
029	Weir & Orifice	Boone Street	42° 51' 38" N	78° 49' 56" W	Buffalo River
031	Manhole	Kimmel Avenue	42° 21' 37" N	78° 49' 29" W	Cazenovia Creek
032	Manhole	W. of Bailey Avenue	42° 51' 43" N	78° 49' 35" W	Buffalo River
033	Leaping Weir	Bailey Avenue	42° 51' 48" N	78° 49' 33" W	Buffalo River
035	Weir & Orifice	Cazenovia Park	42° 51' 02" N	78° 48' 31" W	Cazenovia Creek
037	Manhole	Salem Street	42° 51' 09" N	78° 48' 41" W	Cazenovia Creek
038	Manhole	Kingston Place	42° 51' 10" N	78° 48' 40" W	Cazenovia Creek
039	Leaping Weir	Tamarack Street	42° 51' 13" N	78° 48' 46" W	Cazenovia Creek
040	Manhole	Yale Place	42° 51' 15" N	78° 48' 46" W	Cazenovia Creek
042	Manhole	S. Ryan Street	42° 51' 19" N	78° 48' 51" W	Cazenovia Creek
044	Manhole	Mumford Street	42° 51' 27" N	78° 49' 06" W	Cazenovia Creek
046	Leaping Weir	Unger Avenue	42° 51' 32" N	78° 49' 13" W	Cazenovia Creek
047	Manhole	Southside Parkway	42° 51' 35" N	78° 49' 22" W	Cazenovia Creek
048	Weir & Orifice	E. of Bailey Ave.	42° 51' 38" N	78° 49' 29" W	Cazenovia Creek
049	Weir & Orifice	W. of Bailey Ave.	42° 51' 42" N	78° 49' 36" W	Buffalo River
050	Weir & Orifice	Seneca Street	42° 51' 20" N	78° 49' 16" W	Buffalo River
051	Weir & Orifice	Hillery Park	42° 51' 43" N	78° 48' 38" W	Buffalo River
052	Weir & Orifice	S. Ogden Street	42° 51' 54" N	78° 48' 08" W	Buffalo River
053	Weir & Gate	Scajaquada Drain	42° 55' 26" N	78° 51' 26" W	Scajaquada Creek
054	Manhole	Crowley Avenue	42° 57' 07" N	78° 54' 36" W	Niagara River
055	Weir	Niagara Street	42° 56' 35" N	78° 54' 35" W	Cornelius Creek, Niagara River
056	Weir	Nottingham Terrace	42° 56' 06" N	78° 52' 39" W	Scajaquada Creek
057	Weir	Tonawanda	42° 55' 43" N	78° 53' 52" W	Scajaquada Creek
058	Weir	West Avenue	42° 55' 49" N	78° 53' 45" W	Scajaquada Creek
059	Weir	DeWitt Street	42° 55' 51" N	78° 53' 39" W	Scajaquada Creek
060	Weir	Elmwood Avenue	42° 56' 04" N	78° 52' 42" W	Scajaquada Creek
061	Weir	Scajaquada Tunnel, Lafayette Avenue	42° 55' 15" N	78° 54' 01" W	Black Rock Canal
062	Weir	West Ferry Street	42° 54' 55" N	78° 54' 07" W	Black Rock Canal
063	Weir	Front Park	42° 54' 10" N	78° 54' 07" W	Black Rock Canal

Outfall	Type	Location	Latitude	Longitude	Receiving Water
064	Manhole	Ohio Drain, Ohio Street	42° 51' 59" N	78° 52' 06" W	Buffalo River
066	Manhole	Sloan Drain, S. Ogden Street	42° 51' 53" N	78° 49' 21" W	Buffalo River

II. PERMIT LIMITS, LEVELS AND MONITORING DEFINITIONS

OUTFALL	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
	This cell describes the type of wastewater authorized for discharge. Examples include process or sanitary wastewater, storm water, non-contact cooling water.	This cell lists classified waters of the state to which the listed outfall discharges.	The date this page starts in effect. (e.g. EDP or EDPM)	The date this page is no longer in effect. (e.g. ExDP)

PARAMETER	MINIMUM	MAXIMUM	UNITS	SAMPLE FREQ.	SAMPLE TYPE
e.g. pH, TRC, Temperature, D.O.	The minimum level that must be maintained at all instants in time.	The maximum level that may not be exceeded at any instant in time.	SU, °F, mg/l, etc.		

PARA-METER	EFFLUENT LIMIT	PRACTICAL QUANTITATION LIMIT (PQL)	ACTION LEVEL	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE
	Limit types are defined below in Note 1. The effluent limit is developed based on the more stringent of technology-based limits, required under the Clean Water Act, or New York State water quality standards. The limit has been derived based on existing assumptions and rules. These assumptions include receiving water hardness, pH and temperature; rates of this and other discharges to the receiving stream; etc. If assumptions or rules change the limit may, after due process and modification of this permit, change.	For the purposes of compliance assessment, the analytical method specified in the permit shall be used to monitor the amount of the pollutant in the outfall to this level, provided that the laboratory analyst has complied with the specified quality assurance/quality control procedures in the relevant method. Monitoring results that are lower than this level must be reported, but shall not be used to determine compliance with the calculated limit. This PQL can be neither lowered nor raised without a modification of this permit.	Type I or Type II Action Levels are monitoring requirements, as defined below in Note 2 that trigger additional monitoring and permit review when exceeded.	This can include units of flow, pH, mass, Temperature, concentration. Examples include µg/l, lbs/d, etc.	Examples include Daily, 3/week, weekly, 2/month, monthly, quarterly, 2/yr and yearly.	Examples include grab, 24 hour composite and 3 grab samples collected over a 6 hour period.

Note 1: DAILY DISCHARGE: The discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for the purposes of sampling. For pollutants expressed in units of mass, the 'daily discharge' is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the 'daily discharge' is calculated as the average measurement of the pollutant over the day.

DAILY MAX.: The highest allowable daily discharge. DAILY MIN.: The lowest allowable daily discharge.

MONTHLY AVG: The highest allowable average of daily discharges over a calendar month, calculated as the sum of each of the daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

7 DAY ARITHMETIC MEAN (7 day average): The highest allowable average of daily discharges over a calendar week.

30 DAY GEOMETRIC MEAN: The highest allowable geometric mean of daily discharges over a calendar month, calculated as the antilog of : the sum of the log of each of the daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

7 DAY GEOMETRIC MEAN: The highest allowable geometric mean of daily discharges over a calendar week.

RANGE: The minimum and maximum instantaneous measurements for the reporting period must remain between the two values shown.

Note 2: ACTION LEVELS: Routine Action Level monitoring results, if not provided for on the Discharge Monitoring Report (DMR) form, shall be appended to the DMR for the period during which the sampling was conducted. If the additional monitoring requirement is triggered as noted below, the permittee shall undertake a short-term, high-intensity monitoring program for the parameter(s). Samples identical to those required for routine monitoring purposes shall be taken on each of at least three consecutive operating and discharging days and analyzed. Results shall be expressed in terms of both concentration and mass, and shall be submitted no later than the end of the third month following the month when the additional monitoring requirement was triggered. Results may be appended to the DMR or transmitted under separate cover to the same address. If levels higher than the Action Levels are confirmed, the permit may be reopened by the Department for consideration of revised Action Levels or effluent limits. The permittee is not authorized to discharge any of the listed parameters at levels which may cause or contribute to a violation of water quality standards. TYPE I: The additional monitoring requirement is triggered upon receipt by the permittee of any monitoring results in excess of the stated Action Level. TYPE II: The additional monitoring requirement is triggered upon receipt by the permittee of any monitoring results that show the stated action level exceeded for four of six consecutive samples, or for two of six consecutive samples by 20 % or more, or for any one sample by 50 % or more.

III. PERMIT LIMITS, LEVELS AND MONITORING

a) Effluent Limits for Outfall 002

OUTFALL No.	LIMITATIONS APPLY:	RECEIVING WATER	EFFECTIVE	EXPIRING
002	All Year unless otherwise noted	Niagara River	01/01/2010	06/30/2014

PARAMETER	EFFLUENT LIMIT					MONITORING REQUIREMENTS				FN
								Location		
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Inf.	Eff.	
Flow	MRA	180	MGD			Continuous	Recorder	X		1, 5
BOD_5	Monthly average	30	mg/l	45036	lbs/d	1/day	24-hr. comp.	X	X	2
BOD_5	7 day average	45	mg/l	67554	lbs/d	1/day	24-hr. comp.	X	X	
Solids, Total Suspended	Monthly average	30	mg/l	45036	lbs/d	1/day	24-hr. comp.	X	X	2
Solids, Total Suspended	7 day average	45	mg/l	67554	lbs/d	1/day	24-hr. comp.	X	X	
Solids, Settleable	Daily Maximum	0.3	ml/l			6/day	grab	X	X	3
pH	Range	6.0 – 9.0	SU			6/day	grab	X	X	
Nitrogen, Ammonia (as NH_3)	Daily Maximum	Monitor	mg/l			1/month	24-hr. comp.	X	X	
Nitrogen, TKN (as N)	Daily Maximum	Monitor	mg/l			1/month	24-hr. comp.	X	X	
Temperature	Daily Maximum	Monitor	Deg F			6/day	grab	X	X	
Phenols, Total	Monthly average			36.6	lbs/d	1/month	24-hr. comp.		X	
Phosphorus, Total (as P)	Monthly average	1.0	mg/l			1/day	24-hr. comp.		X	
Mercury, Total	Daily Maximum	50	ng/l			1/month	Grab			4
Effluent Disinfection required: [X] All Year [ ] Seasonal from _____ to										
Coliform, Fecal	30 day geometric mean	200	No./ 100 ml			1/day	grab		X	6
Coliform, Fecal	7 day geometric mean	400	No./ 100 ml			1/day	grab		X	6
Chlorine, Total Residual	Daily Maximum	2.0	mg/l			6/day	grab		X	3, 6

FOOTNOTES:

1. The 12 month rolling average (MRA) shall be the average of the monthly average of the current month plus the monthly average of the eleven previous months.
2. A monthly effluent value shall not exceed 15 % and 15 % of influent values for BOD 5 & TSS respectively for flows up to 180 MGD.
3. The sample measurement for each day is calculated as the arithmetic mean of the total number of daily samples. Therefore the daily maximum is the highest of the approximately 30 daily arithmetic means calculated. The definition is derived from the DMR Manual, NYSDEC, 2002, Page 9, Section 4.4.
4. The proposed limit will be **50 ng/l** until the Department reviews the Mercury Minimization Program (MMP). The calculated Water Quality Based Effluent Limit (WQBEL) for Mercury is 0.7 ng/l based on the Water Quality Evaluation for this discharge. However available information indicates this concentration is not achievable by this treatment facility. Therefore, Best Professional Judgement (BPJ) has been used to determine an interim limit of 50 ng/L the permittee can comply with. The goal of the MMP is to attain calculated WQBEL.
5. This outfall shall be utilized in accordance with the existing Wet Weather Operating Plan.
6. Monitoring of these parameters is only required during the period when disinfection is required.

b) Type II Action Level Monitoring for Outfall 002

OUTFALL NUMBER	WASTEWATER TYPE	EFFECTIVE	EXPIRING
002	Municipal with contributing industries	01/01/2010	06/30/2014

PARAMETER	ACTION LEVEL	UNITS	PQL (lbs/day)	SAMPLE FREQUENCY	SAMPLE TYPE	FN
Cadmium, Total	3.0	lbs/d	0.6	1/month	24 hr. comp.	
Chromium, Total	12.5	lbs/d	6.0	1/month	24-hr. comp.	
Copper, Dissolved	Monitor	lbs/d		1/month	24-hr. comp.	
Copper, Total	31.9	lbs/d	6.0	1/month	24 hr. comp.	
Cyanide, Total	90.0	lbs/d	90	1/month	24-hr. comp.	
Lead, Total	66.2	lbs/d	6.0	1/month	24-hr. comp.	
Nickel, Total	43.8	lbs/d	6.0	1/month	24 hr. comp.	
Zinc, Total	174	lbs/d	0.3	1/month	24-hr. comp.	
Zinc, Dissolved	Monitor	lbs/d		1/month	24-hr. comp.	
Bis(2-Ethylhexyl)Phthalate	16.7	lbs/d	12.0	1/month	24-hr. comp.	

c) Monitoring Requirements for Outfall 001

OUTFALL No.	LIMITATIONS APPLY:	RECEIVING WATER	EFFECTIVE	EXPIRING
001	All Year unless otherwise noted	Niagara River	01/01/2010	06/30/2014

PARAMETER	EFFLUENT LIMIT			MONITORING REQUIREMENTS				FN
						Location		
	Type	Limit	Units	Sample Frequency	Sample Type	Inf.	Eff.	
Flow	Monthly Total	Monitor	MGD	Continuous	Recorder/Totalizer		X	I, 2
BOD_5	Daily Max.	Monitor	mg/l	1/Event	Composite		X	3
Solids, Suspended	Daily Max.	Monitor	mg/l	1/Event	Composite		X	3
Solids, Settleable	Daily Max.	Monitor	ml/l	1/Event	grab		X	4
Ammonia as N, mg/l, lbs/day	Daily Max.	Monitor	mg/l	1/Event	Composite		X	3
TKN as N	Daily Max.	Monitor	mg/l	1/Event	Composite		X	3
Phosphorus	Daily Max.	Monitor	mg/l	1/Event	Composite		X	3
Oil & Grease	Daily Max.	Monitor	mg/l	1/Event	grab		X	3
Coliform, Fecal	30 day geometric mean	Monitor	No./ 100 ml	1/Event	grab		X	4
Coliform, Fecal	7 day geometric mean	Monitor	No./ 100 ml	1/Event	grab		X	4
Chlorine, Total Residual	Daily Max.	2.0	mg/l	1/Event	grab		X	4

FOOTNOTES

1. Flows shall be managed in accordance to the existing Wet Weather Operating Plan. All flows up to the headworks capacity and not passed through outfall 002 shall be passed through outfall 001. This requirement may be superseded by the provisions in the ongoing Consent Decree.
2. Flow shall be continuously recorded and totalized. Flow reported on the Discharge Monitoring Report shall be the total flow discharge for the calendar month reporting period.
3. Samples shall be composite of grab samples, one taken every four hours.
4. Grab samples to be taken every four hours during each event.

IV. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR HEADWORKS BYPASS ROUTINE MONITORING REQUIREMENTS

OUTFALL No.	LIMITATIONS APPLY:			EFFECTIVE		EXPIRING		
001A	All Year unless otherwise noted			01/01/2010		06/30/2014		
PARAMETER	EFFLUENT LIMIT			MONITORING REQUIREMENTS				
	Type	Limit	Units	Sample Frequency	Sample Type	Location		FN
						Inf.	Eff.	
Flow, MG	Monthly Total	Monitor	MGD	1/Event	Estimated	X		(1)
BOD,5-day mg/l	Daily Max.	Monitor	mg/l	1/Event	Grab		X	
Solids, Suspended mg/l	Daily Max.	Monitor	mg/l	1/Event	Grab		X	
Solids, Settleable ml/l	Daily Max.	Monitor	ml/l	1/Event	Grab		X	
Oil & Grease mg/l	Daily Max.	Monitor	mg/l	1/Event	Grab		X	

(1) This outfall shall be used in accordance with the existing Wet Weather Operating Plan and/or for emergency use only.

V. WHOLE EFFLUENT TOXICITY

PARAMETER	EFFLUENT LIMIT		PQL	MONITORING ACTION LEVEL		UNITS	SAMPLE FREQUENCY	SAMPLE TYPE
	Monthly Avg.	Daily Max.	Daily Max.	TYPE I	TYPE II			
WET - Chronic Invertebrate				101		TUc	Quarterly	Footnote 1
WET - Chronic Vertebrate				101		TUc	Quarterly	Footnote 1

Footnote
1. **Whole Effluent Toxicity Testing for Outfall 002**

Testing Requirements - WET testing shall consist of **Chronic only**. WET testing shall be performed in accordance with 40 CFR Part 136 and TOGS 1.3.2 unless prior written approval has been obtained from the Department. The test species shall be *Ceriodaphnia dubia* (water flea - invertebrate) and *Pimephales promelas* (fathead minnow - vertebrate). Receiving water collected upstream from the discharge should be used for dilution. All tests conducted should be static-renewal (two 24 hr composite samples with one renewal for Acute tests and three 24 hr composite samples with two renewals for Chronic tests). The appropriate dilution series bracketing the IWC and including one exposure group of 100% effluent should be used to generate a definitive test endpoint, otherwise an immediate rerun of the test is required. WET testing shall be coordinated with the monitoring of chemical and physical parameters limited by this permit so that the resulting analyses are also representative of the sample used for WET testing. The ratio of critical receiving water flow to discharge flow (i.e. dilution ratio) is **50:1** for acute, and **100:1** for chronic. Discharges which are disinfected using chlorine should be dechlorinated prior to WET testing or samples shall be taken immediately prior to the chlorination system.

Monitoring Period - WET testing shall be performed at the specified sample frequency **during calendar years ending in 2 and 7.**

Reporting - Toxicity Units shall be calculated and reported on the DMR as follows: TUa = (100)/(48 hr LC50) or (100)/(48 hr EC50) (note that Acute data is generated by both Acute and Chronic testing) and TUc = (100)/(NOEC) when Chronic testing has been performed or TUc = (TUa) x (10) when only Acute testing has been performed and is used to predict Chronic test results, where the 48 hr LC50 or 48 hr EC50 and NOEC are expressed in % effluent. This must be done for both species and using the Most Sensitive Endpoint (MSE) or the lowest NOEC and corresponding highest TUc. Report a TUa of 0.3 if there is no statistically significant toxicity in 100% effluent as compared to control.

The complete test report including all corresponding results, statistical analyses, reference toxicity data, daily average flow at the time of sampling and other appropriate supporting documentation, shall be submitted within 60 days following the end of each test period to the Toxicity Testing Unit. A summary page of the test results for the invertebrate and vertebrate species indicating TUa, 48 hr LC50 or 48 hr EC50 for Acute tests and/or TUc, NOEC, IC25, and most sensitive endpoints for Chronic tests, should also be included at the beginning of the test report.

WET Testing Action Level Exceedances - If an action level is exceeded then the Department may require the permittee to conduct additional WET testing including Acute and/or Chronic tests. Additionally, the permittee may be required to perform a Toxicity Reduction Evaluation (TRE) in accordance with Department guidance. If such additional testing or performance of a TRE is necessary, the permittee shall be notified in writing by the Regional Water Engineer. The written notification shall include the reason(s) why such testing or a TRE is required.

VI. PRETREATMENT PROGRAM IMPLEMENTATION REQUIREMENTS

A. DEFINITIONS. Generally, terms used in this Section shall be defined as in the General Pretreatment Regulations (40 CFR Part 403). Specifically, the following definitions apply to terms used in this Section (PRETREATMENT PROGRAM IMPLEMENTATION REQUIREMENTS):

1. Categorical Industrial User (CIU)- an industrial user of the POTW that is subject to Categorical Pretreatment Standards under 40 CFR 403.6 and 40 CFR Chapter I, Subchapter N;

2. Local Limits - General Prohibitions, specific prohibitions and specific limits as set forth in 40 CFR 403.5.

3. The Publicly Owned Treatment Works (the POTW) - as defined by 40 CFR 403.3(q) and that discharges in accordance with this permit.

4. Program Submission(s) - requests for approval or modification of the POTW Pretreatment Program submitted in accordance with 40 CFR 403.11 or 403.18 and approved by letter dated September 11, 1984.

5. Significant Industrial User (SIU) -

   a. CIUs;

   b. Except as provided in 40 CFR 403.3(v)(3), any other industrial user that discharges an average of 25,000 gallons per day or more of process wastewater (excluding sanitary, non-contact cooling and boiler blowdown wastewater) to the POTW;

   c. Except as provided in 40 CFR 403.3(v)(3), any other industrial user that contributes a process wastestream which makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the POTW treatment plant;

   d. Any other industrial user that the permittee designates as having a reasonable potential for adversely affecting the POTW's operation or for violating a pretreatment standard or requirement.

6. Substances of Concern - Substances identified by the New York State Department of Environmental Conservation Industrial Chemical Survey as substances of concern.

B. IMPLEMENTATION. The permittee shall implement a POTW Pretreatment Program in accordance 40 CFR Part 403 and as set forth in the permittee's approved Program Submission(s). Modifications to this program shall be made in accordance with 40 CFR 403.18. Specific program requirements are as follows:

1. Industrial Survey. To maintain an updated inventory of industrial dischargers to the POTW the permittee shall:

   a. Identify, locate and list all industrial users who might be subject to the industrial pretreatment program from the pretreatment program submission and any other necessary, appropriate and available sources. This identification and location list will be updated, at a minimum, every five years. As part of this update the permittee shall collect a current and complete New York State Industrial Chemical Survey form (or equivalent) from each SIU.

   b. Identify the character and volume of pollutants contributed to the POTW by each industrial user identified in B.1.a above that is classified as a SIU.

   c. Identify, locate and list, from the pretreatment program submission and any other necessary, appropriate and available sources, all significant industrial users of the POTW.

2. Control Mechanisms. To provide adequate notice to and control of industrial users of the POTW the permittee shall:

a. Inform by certified letter, hand delivery courier, overnight mail, or other means which will provide written acknowledgment of delivery, all industrial users identified in B.1.a. above of applicable pretreatment standards and requirements including the requirement to comply with the local sewer use law, regulation or ordinance and any applicable requirements under section 204(b) and 405 of the Federal Clean Water Act and Subtitles C and D of the Resource Conservation and Recovery Act.

b. Control through permit or similar means the contribution to the POTW by each SIU to ensure compliance with applicable pretreatment standards and requirements. Permits shall contain limitations, sampling frequency and type, reporting and self-monitoring requirements as described below, requirements that limitations and conditions be complied with by established deadlines, an expiration date not later than five years from the date of permit issuance, a statement of applicable civil and criminal penalties and the requirement to comply with Local Limits and any other requirements in accordance with 40 CFR 403.8(f)(1).

3. Monitoring and Inspection. To provide adequate, ongoing characterization of non-domestic users of the POTW, the permittee shall:

a. Receive and analyze self-monitoring reports and other notices. The permittee shall require all SIUs to submit self-monitoring reports at least every six months unless the permittee collects all such information required for the report, including flow data.

b. The permittee shall adequately inspect each SIU at a minimum frequency of once per calendar year.

c. The permittee shall collect and analyze samples from each SIU for all priority pollutants that can reasonably be expected to be detectable at levels greater than the levels found in domestic sewage at a minimum frequency of once per year.

d. Require, through permits, each SIU to collect at least one 24 hour, flow proportioned composite (where feasible) effluent sample every six months and analyze each of those samples for all priority pollutants that can reasonably be expected to be detectable in that discharge at levels greater than the levels found in domestic sewage. The permittee may perform the aforementioned monitoring in lieu of the SIU except that the permittee must also perform the compliance monitoring described in 3.c.

4. Enforcement. To assure adequate, equitable enforcement of the industrial pretreatment program the permittee shall:

a. Investigate instances of noncompliance with pretreatment standards and requirements, as indicated in self-monitoring reports and notices or indicated by analysis, inspection and surveillance activities. Sample taking and analysis and the collection of other information shall be performed with sufficient care to produce evidence admissible in enforcement proceedings or in judicial actions. Enforcement activities shall be conducted in accordance with the permittee's Enforcement Response Plan developed and approved in accordance with 40 CFR Part 403.

b. Enforce compliance with all national pretreatment standards and requirements in 40 CFR Parts 406 - 471.

c. Provide public notification of significant non-compliance as required by 40 CFR 403.8(f)(2)(viii).

d. Pursuant to 40 CFR 403.5(e), when either the Department or the USEPA determines any source contributes pollutants to the POTW in violation of Pretreatment Standards or Requirements the Department or the USEPA shall notify the permittee. Failure by the permittee to commence an appropriate investigation and subsequent enforcement action within 30 days of this notification may result in appropriate enforcement action against the source and permittee.

5. Record keeping. The permittee shall maintain and update, as necessary, records identifying the nature, character, and volume of pollutants contributed by SIUs. Records shall be maintained in accordance with 6 NYCRR Part 750-2.5(c).

6. Staffing. The permittee shall maintain minimum staffing positions committed to implementation of the Industrial

Pretreatment Program in accordance with the approved pretreatment program.

C. SLUDGE DISPOSAL PLAN. The permittee shall notify NYSDEC, and USEPA as long as USEPA remains the approval authority, 60 days prior to any major proposed change in the sludge disposal plan. NYSDEC may require additional pretreatment measures or controls to prevent or abate an interference incident relating to sludge use or disposal.

D. REPORTING. The permittee shall provide to the offices listed on the Monitoring, Reporting and Recording page of this permit and to the Chief-Water Compliance Branch; USEPA Region II; 290 Broadway; New York, NY 10007; an annual report that briefly describes the permittee's program activities over the previous year. This report shall be submitted to the above noted offices within 60 days of the end of the reporting period. The reporting period shall be annual with reporting period(s) ending on April 30 of each year.

The annual report shall include:

1. Industrial Survey. Updated industrial survey information in accordance with 40 CFR 403.12(i)(1) (including any NYS Industrial Chemical Survey forms updated during the reporting period).

2. Implementation Status. Status of Pretreatment Program Implementation, to include:

   a. Any interference upset or permit violations experienced at the POTW directly attributable to industrial users.

   b. Listing of significant industrial users issued permits.

   c. Listing of significant industrial users inspected and/or monitored during the previous reporting period and summary of results.

   d. Listing of significant industrial users notified of promulgated pretreatment standards or applicable local standards that are on compliance schedules. The listing should include for each facility the final date of compliance.

   e. Summary of POTW monitoring results not already submitted on Discharge Monitoring Reports and toxic loadings from SIU's organized by parameter.

   f. A summary of additions or deletions to the list of SIUs, with a brief explanation for each deletion.

3. Enforcement Status. Status of enforcement activities to include:

   a. Listing of significant industrial users in Significant Non-Compliance (as defined by 40 CFR 403.8(f)(2)(viii)) with federal or local pretreatment standards at end of the reporting period.

   b. Summary of enforcement activities taken against non-complying significant industrial users. The permittee shall provide a copy of the public notice of significant violators as specified in 40 CFR Part 403.8(f)(2)(viii).

VII. BEST MANAGEMENT PRACTICES FOR COMBINED SEWER OVERFLOWS

The permittee shall implement the following Best Management Practices (BMPs). These BMPs are designed to implement operation & maintenance procedures, utilize the existing treatment facility and collection system to the maximum extent practicable, and implement sewer design, replacement and drainage planning, to maximize pollutant capture and minimize water quality impacts from combined sewer overflows. The BMPs are equivalent to the "Nine Minimum Control Measures" required under the USEPA National Combined Sewer Overflow policy. The EPA's policy is available at http://cfpub.epa.gov/npdes/cso/cpolicy.cfm?program_id=5.

1. CSO Maintenance/Inspection - The permittee shall develop a written maintenance and inspection program for all CSOs listed on page(s) 3-5 of this permit. This program shall include all regulators tributary to these CSOs, and shall be conducted during periods of both dry and wet weather. This is to insure that no discharges occur during dry weather and that the maximum amount of wet weather flow is conveyed to the Bird Island POTW for treatment. This program shall consist of inspections with required repair, cleaning and maintenance done as needed. This program shall consist of monthly inspections.

   Inspection reports shall be completed indicating visual inspection, any observed flow, incidence of rain or snowmelt, condition of equipment and work required. These reports shall be in a format approved by the Regional Office and submitted to the Region with the monthly operating report (Form 92-15-7).

2. Maximum Use of Collection System for Storage - The permittee shall optimize the collection system by operating and maintaining it to minimize the discharge of pollutants from CSOs. It is intended that the maximum amount of in-system storage capacity be used (without causing service backups) to minimize CSOs and convey the maximum amount of combined sewage to the treatment plant in accordance with Item 4 below.

   This shall be accomplished by an evaluation of the hydraulic capacity of the system but should also include a continuous program of flushing or cleaning to prevent deposition of solids and the adjustment of regulators and weirs to maximize storage.

3. Industrial Pretreatment - The approved Industrial Pretreatment Program shall consider CSOs in the calculation of local limits for indirect discharges. Discharge of persistent toxics upstream of CSOs will be in accordance with guidance under (NYSDEC Division of Water Technical and Operational Guidance Series **(TOGS) 1.3.8 New Discharges to POTWs**. (http://www.dec.ny.gov/regulations/2652.html). For industrial operations characterized by use of batch discharge, consideration shall be given to the feasibility of a schedule of discharge during conditions of no CSO. For industrial discharges characterized by continuous discharge, consideration must be given to the collection system capacity to maximize delivery of waste to the treatment plant. Non-contact cooling water should be excluded from the combined system to the maximum extent practicable. Direct discharges of cooling water must apply for a SPDES permit. To the maximum extent practicable, consideration shall be given to maximize the capture of non-domestic waste containing toxic pollutants and this wastewater should be given priority over residential/commercial service areas for capture and treatment by the POTW.

4. Maximize Flow to POTW - Factors cited in Item 2. above shall also be considered in maximizing flow to the POTW. Maximum delivery to the POTW is particularly critical in treatment of "first-flush" flows. The treatment plant shall be capable of receiving and treating: the peak design hydraulic loading rates for all process units; i.e., a minimum of 450MGD through the plant headworks; and a minimum of 300 MGD through the secondary treatment works during wet weather in accordance with the existing Wet Weather Operating Plan. The collection system and headworks must be capable of delivering these flows during wet weather. If the permittee cannot deliver maximum design flow for treatment, the permittee shall submit a plan and schedule for accomplishing this requirement within 12 months after the effective date of this permit.

5. Wet Weather Operating Plan - The permittee shall maximize treatment during wet weather events. This shall be accomplished by having a wet weather operating plan containing procedures so as to operate unit processes to treat maximum flows while not appreciably diminishing effluent quality or destabilizing treatment upon return to dry weather operation. The BSA must continue to implement the wet weather operations plan

   The submission of a wet weather operating plan is a one time requirement that shall be done to the Department's satisfaction once. However, a revised wet weather operating plan must be submitted whenever the POTW and/or sewer collection system is significantly replaced or modified in a manner that impacts flows at Bird Island WWTP. When this permit is administratively renewed by NYSDEC letter entitled "SPDES NOTICE/RENEWAL APPLICATION/PERMIT", the permittee is not required to repeat the submission. The above due dates are independent from the effective date of the permit stated in the letter of "SPDES NOTICE/RENEWAL APPLICATION/PERMIT".

6. Prohibition of Dry Weather Overflow - Dry weather overflows from the combined sewer system are prohibited. The occurrence of any dry weather overflow shall be promptly abated and reported to the NYSDEC Region 9 Office within 24 hours. A written report shall also be submitted within fourteen (14) days of the time the permittee becomes aware of the occurrence. The occurrence of any dry weather overflow shall be promptly abated and reported to the NYSDEC Regional Office in accordance with 6 NYCRR Part 750-2.7.

7. Control of Floatable and Settleable Solids - The discharge of floating solids, oil and grease, or solids of sewage origin which cause deposition in the receiving waters, is a violation of the NYS Narrative Water Quality Standards contained in Part 703. As such, the permittee shall implement best management practices in order to eliminate or minimize the discharge of these substances. All of the measures cited in Items 1, 2, 4 & 5 above shall constitute approvable "BMPs" for mitigation of this problem. If aesthetic problems persist, the permittee should consider additional BMP's including but not limited to: street sweeping, litter control laws, installation of floatables traps in catch basins (such as hoods), booming and skimming of CSOs, and disposable netting on CSO outfalls. In cases of severe or excessive floatables generation, booming and skimming should be considered an interim measure prior to implementation of final control measures. Public education on harmful disposal practices of personal hygienic devices may also be necessary including but not limited to: public broadcast television, printed information inserts in sewer bills, or public health curricula in local schools.

8. Combined Sewer System Replacement - Replacement of combined sewers shall not be designed or constructed unless approved by NYSDEC. When replacement of a combined sewer is necessary it shall be replaced by separate sanitary and storm sewers to the greatest extent possible. These separate sanitary and storm sewers shall be designed and constructed simultaneously but without interconnections to maximum extent practicable. When combined sewers are replaced, the design should contain cross sections which provide sewage velocities which prevent deposition of organic solids during low flow conditions.

9. Combined Sewer/Extension - Combined sewer/extension, when allowed should be accomplished using separate sewers. These sanitary and storm sewer extensions shall be designed and constructed simultaneously but without interconnections. No new source of storm water shall be connected to any separate sanitary sewer in the collection system.

   If separate sewers are to be extended from combined sewers, the permittee shall demonstrate the ability of the sewerage system to convey, and the treatment plant to adequately treat, the increased dry-weather flows. Upon a determination by the Regional Water Engineer an assessment shall be made by the permittee of the effects of the increased flow of sanitary sewage or industrial waste on the strength of CSOs and their frequency of occurrence including the impacts upon best usage of the receiving water. This assessment should use techniques such as collection system and water quality modeling contained in the 1999 Water Environment Federation Manual of Practice FD-17 entitled, Prevention and Control of Sewer System Overflows, 2nd edition.

10. Sewage Backups - If, there are documented, recurrent instances of sewage backing up into house(s) or discharges of raw sewage onto the ground surface from surcharging manholes, the permittee shall, upon letter notification from DEC, prohibit further connections that would make the surcharging/back-up problems worse.

11. Septage and Hauled Waste - The discharge or release of septage or hauled waste upstream of a CSO is prohibited.

12. Control of Run-off - It is recommended that the impacts of run-off from development and re-development in areas served by combined sewers be reduced by requiring compliance with the New York Standards for Erosion and Sediment Control and the quantity control requirements included in the New York State Stormwater Management Design Manual. (http://www.dec.ny.gov/chemical/8694.html).

13. Public Notification - The permittee shall continue to maintain identification signs at all CSO outfalls owned and operated by the permittee. The permittee shall place the signs at or near the CSO outfalls and ensure that the signs are easily readable by the public. The signs shall have **minimum** dimensions of eighteen inches by twenty four inches (18" x 24") and shall have white letters on a green background and contain the following information:

N.Y.S. PERMITTED DISCHARGE POINT
(wet weather discharge)
SPDES PERMIT No.: NY_____

OUTFALL No. :____

For information about this permitted discharge contact:

Permittee Name:

Permittee Contact:

Permittee Phone: ( ) - ### - ####

OR:

The permittee shall implement a public notification program to inform citizens of the location and occurrence of CSO events in accordance with the proposed Consent Order Decree.

14. Characterization and Monitoring - The permittee shall characterize the combined sewer system, determine the frequency of overflows, and identify CSO impacts in accordance with Combined Sewer Overflows, Guidance for Nine Minimum Controls, EPA, 1995, Chapter 10. These are minimum requirements, more extensive characterization and monitoring efforts which may be required as part of the Long Term Control Plan.

15. Annual Report - The permittee shall submit an annual report summarizing implementation of the above best management practices (BMPs). The report shall list existing documentation of implementation of the BMPs and shall be submitted by January 31st of each year to the Regional office listed on the Recording, Reporting and Additional Monitoring page of this permit and to the Bureau of Water Permits, 625 Broadway, Albany, NY 12233-3505. Examples of recommended documentation of the BMPs are found in Combined Sewer Overflows, Guidance for Nine Minimum Controls (NMC), EPA, 1995. The permittee may obtain an electronic copy of the NMC guidance at http://www.epa.gov/npdes/pubs/owm0030.pdf. For guidance on developing the annual report, a BMP checklist is available from DEC on-line at http://www.dec.ny.gov/docs/water_pdf/csobmp.pdf. The permittee must submit a completed copy of this checklist along with the annual report. The actual documentation shall be stored at a central location and be made available to DEC upon request.

VIII. CSO LONG-TERM CONTROL PLAN

The BSA CSO Long Term Control Plan (LTCP) was approved on March 18, 2014. BSA is required to implement the approved CSO LTCP.

The EPA issued an Amended Administrative Order (CWA-02-2014-3033) which addresses implementation of the LTCP. BSA shall implement the approved CSO LTCP in accordance with the EPA Order (CWA-02-2014-3033), and any subsequent amended/modified Administrative Orders.

This permit may be reopened for modification to include any additional requirements in accordance with 6 NYCRR Part 621.

IX. STORM WATER POLLUTANT PREVENTION PLAN FOR POTWs WITH STORMWATER OUTFALLS

1. General - The Department has determined that stormwater discharges from POTWs with design flows at or above one MGD shall be covered under the SPDES permit. If the permittee has already submitted a Notice of Intent to the Department for coverage under the General Storm Water permit, the permittee shall submit a Notice of Termination to the Department upon receipt of this final SPDES permit containing the requirement to develop a SWPPP.

The permittee is required to develop, maintain, and implement a Storm Water Pollutant Prevention Plan (SWPPP) to prevent releases of significant amounts of pollutants to the waters of the State through plant site runoff; spillage and leaks; sludge or waste disposal; and other stormwater discharges including, but not limited to, drainage from raw material storage.

The SWPPP shall be documented in narrative form and shall include the 13 minimum elements below and plot plans, drawings, or maps necessary to clearly delineate the direction of stormwater flow and identify the conveyance, such as ditch, swale, storm sewer or sheet flow, and receiving water body. Other documents already prepared for the facility such as a Safety Manual or a Spill Prevention, Control and Countermeasure (SPCC) plan may be used as part of the SWPPP and may be incorporated by reference. A copy of the current SWPPP shall be submitted to the Department as required in item (2.) below and a copy must be maintained at the facility and shall be available to authorized Department representatives upon request.

2. Compliance Deadlines – The BSA shall revise the February 2008 SWPPP developed under the General Permit. The revised plan shall be submitted by **07/01/2010** to the Regional Water Engineer. The SWPPP shall be implemented within 6 months of submission, unless a different time frame is approved by the Department. The SWPPP shall be reviewed annually and shall be modified whenever: (a) changes at the facility materially increase the potential for releases of pollutants; (b) actual releases indicate the SWPPP is inadequate, or (c) a letter from the Department identifies inadequacies in the SWPPP. The permittee shall certify in writing, as an attachment to the December Discharge Monitoring Report (DMR), that the annual review has been completed. All SWPPP revisions (with the exception of minimum elements - see item (4.B.) below) must be submitted to the Regional Water Engineer within 30 days. Note that the permittee is not required to obtain Department approval of the SWPPP (or of any minimum elements) unless notified otherwise. Subsequent modifications to or renewal of this permit does not reset or revise these deadlines unless a new deadline is set explicitly by such permit modification or renewal.

3. Facility Review - The permittee shall review all facility components or systems (including but not limited to material storage areas; in-plant transfer, process, and material handling areas; loading and unloading operations; storm water, erosion, and sediment control measures; process emergency control systems; and sludge and waste disposal areas) where materials or pollutants are used, manufactured, stored or handled to evaluate the potential for the release of pollutants to the waters of the State. In performing such an evaluation, the permittee shall consider such factors as the probability of equipment failure or improper operation, cross-contamination of storm water by process materials, settlement of facility air emissions, the effects of natural phenomena such as freezing temperatures and precipitation, fires, and the facility's history of spills and leaks. The relative toxicity of the pollutant shall be considered in determining the significance of potential releases.

The review shall address all substances present at the facility that are identified in Tables 6-10 of SPDES application Form NY-2C (available at *http://www.dec.state.ny.us/website/dcs/permits/olpermits/form2c.pdf*) as well as those that are required to be monitored by the SPDES permit.

4. A. 13 Minimum elements - Whenever the potential for a release of pollutants to State waters is determined to be present, the permittee shall identify Best Management Practices (BMPs) that have been established to prevent or minimize such potential releases. Where BMPs are inadequate or absent, appropriate BMPs shall be established. In selecting appropriate BMPs, the permittee shall consider good industry practices and, where appropriate, structural measures such as secondary containment and erosion/sediment control devices and practices. USEPA guidance for development of minimum elements of the SWPPP and BMPs is available in the September 1992 manual *Storm Water Management for Industrial Activities,* EPA 832-R-92-006 (available on-line at http://nepis.epa.gov/pubtitleOW.htm). At a minimum, the plan shall include the following elements:

1. Pollution Prevention Team
2. Reporting of BMP Incidents
3. Risk Identification & Assessment
4. Employee Training
5. Inspections and Records
6. Security
7. Preventive Maintenance
8. Good Housekeeping
9. Materials/Waste Handling, Storage, & Compatibility
10. Spill Prevention & Response
11. Erosion & Sediment Control
12. Management of Runoff
13. Street Sweeping

Note that for some facilities, especially those with few employees, some of the above may not be applicable. It is acceptable in these

cases to indicate "Not Applicable" for the portion(s) of the SWPPP that do not apply to your facility, along with an explanation, for instance if street sweeping did not apply because no streets exist at the facility.

B. Stormwater Pollution Prevention Plans (SWPPPs) Required for Discharges of Stormwater From Construction Activity to Surface Waters - As part of the erosion of and sediment control element, a SWPPP shall be developed prior to the initiation of any site disturbance of one acre or more of uncontaminated area. Uncontaminated area means soils or groundwater which are free of contamination by any toxic or non-conventional pollutants identified in Tables 6-10 of SPDES application Form NY-2C. Disturbance of any size contaminated area(s) and the resulting discharge of contaminated stormwater is not authorized by this permit unless the discharge is under State or Federal oversight as part of a remedial program or after review by the Regional Water Engineer; nor is such discharge authorized by any SPDES general permit for stormwater discharges. SWPPPs are not required for discharges of stormwater from construction activity to groundwaters.

The SWPPP shall conform to the *New York Standards and Specifications for Erosion and Sediment Control* and *New York State Stormwater Management Design Manual,* unless a variance has been obtained from the Regional Water Engineer, and to any local requirements. The permittee shall submit a copy of the SWPPP and any amendments thereto to the local governing body and any other authorized agency having jurisdiction or regulatory control over the construction activity at least 30 days prior to soil disturbance. The SWPPP shall also be submitted to the Regional Water Engineer if contamination, as defined above, is involved and the permittee must obtain a determination of any SPDES permit modifications and/or additional treatment which may be required prior to soil disturbance. Otherwise, the SWPPP shall be submitted to the Department only upon request. When a SWPPP is required, a properly completed *Notice of Intent* (NOI) form shall be submitted (available at *www.dec.state.ny.us/website/dow/toolbox/swforms.html*) prior to soil disturbance. Note that submission of a NOI is required for informational purposes; the permittee is not eligible for and will not obtain coverage under any SPDES general permit for stormwater discharges, nor are any additional permit fees incurred. SWPPPs must be developed and submitted for subsequent site disturbances in accordance with the above requirements. The permittee is responsible for ensuring that the provisions of each SWPPP is properly implemented.

Note:
If the permittee is covered under the MS4 permit, the permittee may substitute this to satisfy some of the conditions in this SWPPP.

X. DISCHARGE NOTIFICATION REQUIREMENTS

Sign Maintenance

The permittee shall periodically inspect the outfall identification sign(s) in order to ensure they are maintained, are still visible, and contain information that is current and factually correct. Signs that are damaged or incorrect shall be replaced within 3 months of inspection.

Data Retention

The permittee shall retain records for a minimum period of 5 years in accordance with 6NYCRR Part 750-1.12(b)(2) and Part 750-2.5(c)(1). These records, which include discharge monitoring reports (DMRs) and annual reports, must be retained at a repository accessible to the public. This repository shall be open to the public, at a minimum, during normal daytime business hours. The repository may be the business office, wastewater treatment plant, village, town, city, or county clerk's office, the local library, or other location approved by the Department.

XI. SCHEDULE OF COMPLIANCE

Short-term Hi-Intensity Sampling

Action Code	Outfall Number(s)	Compliance Action	Due Date
	001	The permittee shall conduct sampling for the following parameters detected in the WWTP effluent and listed in the permit application. Sampling shall be once per event for a minimum of **10 events.** The permittee submit the results of the analyses along with the daily flow:	06/01/2010

Parameters	EPA Method of Analysis Required	Sample Type
Arsenic, Total	200.7	24 hr. Comp.
Cadmium, Total	200.7	24 hr. Comp.
Chromium, Total	200.7	24 hr. Comp.
Copper, Total	200.7	24 hr. Comp.
Cyanide, Total	200.7	24 hr. Comp.
Lead, Total	200.7	24 hr. Comp.
Nickel, Total	200.7	24 hr. Comp.
Zinc, Total	200.7	24 hr. Comp.

The above compliance actions are one time requirements. The permittee shall comply with the above compliance actions to the Department's satisfaction once. When this permit is administratively renewed by NYSDEC letter entitled "SPDES NOTICE/RENEWAL APPLICATION/PERMIT", the permittee is not required to repeat the submission. The above due dates are independent from the effective date of the permit stated in the letter of "SPDES NOTICE/RENEWAL APPLICATION/PERMIT."

a) The permittee shall submit a written notice of compliance or non-compliance with each of the above schedule dates no later than 14 days following each elapsed date, unless conditions require more immediate notice in accordance with 6NYCRR Part 750-2.7. All such compliance or non-compliance notification shall be sent to the locations listed under the section of this permit entitled RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS. Each notice of non-compliance shall include the following information:

1. A short description of the non-compliance;
2. A description of any actions taken or proposed by the permittee to comply with the elapsed schedule requirements without further delay and to limit environmental impact associated with the non-compliance;
3. A description or any factors which tend to explain or mitigate the non-compliance; and
4. An estimate of the date the permittee will comply with the elapsed schedule requirement and an assessment of the probability that the permittee will meet the next scheduled requirement on time.

b) The permittee shall submit copies of any document required by the above schedule of compliance to NYSDEC Regional Water Engineer **and to the Bureau of Water Permits, 625 Broadway, Albany, N.Y. 12233-3505**, unless otherwise specified in this permit or in writing by the Department.

XII. MERCURY MINIMIZATION PROGRAM

1. **General** – Within 12 months of the effective date of this permit (**by 01/01/2011**), the permittee shall develop and immediately implement, and maintain a Mercury Minimization Program (MMP). The MMP is required because the 50 ng/L permit limit exceeds the state-wide calculated water quality based effluent limit (WQBEL) of 0.70 nanograms/liter (ng/L) for Total Mercury. The goal of the MMP will be to reduce mercury effluent levels in pursuit of the calculated WQBEL.

2. **MMP Elements** - The MMP shall be documented in narrative form and shall include any necessary drawings or maps. Other related documents already prepared for the facility may be used as part of the MMP and may be incorporated by reference. As a minimum, the MMP shall include an on-going program consisting of: periodic monitoring designed to quantify and, over time, track the reduction of mercury; an acceptable control strategy for reducing mercury discharges via cost-effective measures, which may include more stringent control of tributary waste streams; and submission of annual status reports.

A. Monitoring - All permit-related mercury monitoring shall be performed using EPA Method 1631 and shall be coordinated so that the results can be compared. All samples shall be grabs and use of EPA Method 1669 during sample collection is recommended. Minimum required monitoring is as follows:

i. Sewage Treatment Plant Influent & Effluent, and Type II SSO* Outfalls - Samples at each of these locations must be collected in accordance with the minimum frequency specified on the mercury permit limits page.

ii. Key Locations in the Collection System and Potential Significant Mercury Sources - The minimum monitoring frequency at these locations shall be semi-annual. Monitoring of properly treated dental facility discharges is not required.

iii. Hauled Wastes - Hauled wastes which may contain significant mercury levels must be periodically tested prior to acceptance to ensure compliance with pretreatment/local limits requirements.

iv. Additional monitoring must be completed as may be required elsewhere in this permit or upon Department request.

B. Control Strategy - An acceptable control strategy is required for reducing mercury discharges via cost-effective measures, including but not limited to more stringent control of industrial users and hauled wastes. The control strategy will become enforceable under this permit and shall contain the following minimum elements:

i. Pretreatment/Local Limits - The permittee shall evaluate and revise current requirements in pursuit of the water quality goal.

ii. Periodic Inspection - The permittee must inspect users as necessary to support the MMP. Each dental facility shall be inspected at least once every five years to verify compliance with the wastewater treatment and notification elements of 6NYCRR Part 374.4. Other mercury sources shall also be inspected once every five years. Alternatively, the permittee may develop an outreach program which informs these users of their responsibilities once every five years and is supported by a subset of site inspections. Monitoring shall be performed as required above.

iii. Systems with CSO & Type II SSO* Outfalls - Priority shall be given to controlling mercury sources upstream of CSOs and Type II SSOs through mercury reduction activities and/or controlled-release discharge. Effective control is necessary to avoid the need for the Department to establish mercury permit limits at these outfalls.

iv. A file shall be maintained containing all MMP documentation, including the dental forms required by 6NYCRR Part 374.4, which shall be available for review by DEC representatives.

C. Annual Status Report - An annual status report shall be submitted to the Regional Water Engineer and to the Bureau of Water Permits summarizing: (a) all MMP monitoring results for the previous year; (b) a list of known and potential mercury sources; (c) all action undertaken pursuant to the strategy during the previous year, (d) actions planned for the upcoming year, and (e) progress toward the goal. The first annual status report is due **01/01/2011** and follow-up reports are due annually thereafter. Note that the complete MMP documentation need not be submitted to the Department unless otherwise requested.

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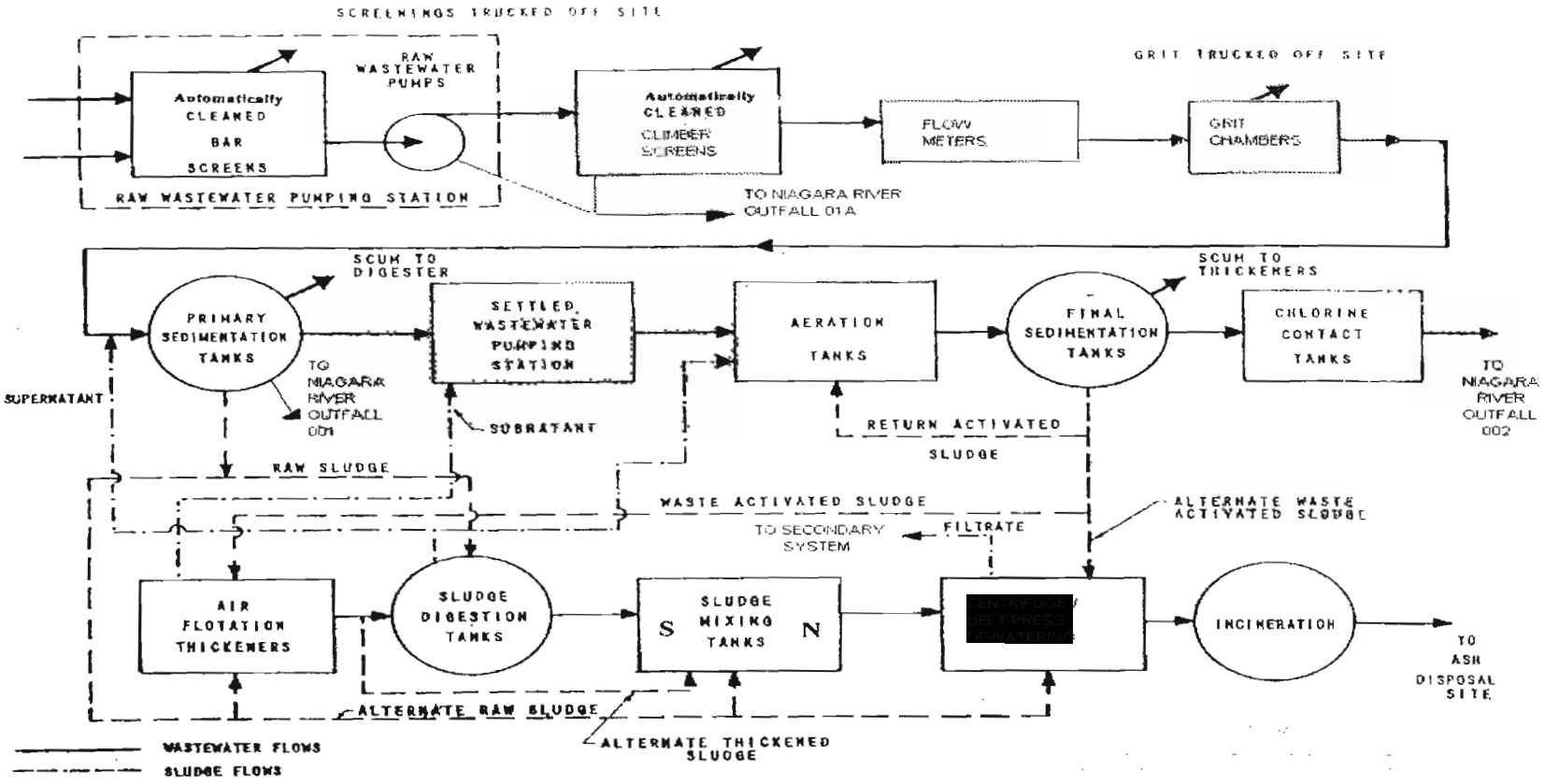
* Overflow Retention Facilities (ORF) or Peak Excess Flow Treatment Facilities (PEFTF). ORFs were designed, approved and constructed under an SSO abatement program. ORFs capture most sewer system flow surges and return them to the POTW for treatment. Under certain exceptionally high flow conditions, excess flow may be discharged.

3. **MMP Modification** - The MMP shall be modified whenever: (a)changes at the facility or within the collection system increase the potential for mercury discharges; (b) actual discharges exceed 50 ng/L; (c) a letter from the Department identifies inadequacies in the MMP; or, (d) pursuant to a permit modification.

MONITORING LOCATIONS

The permittee shall take samples and measurements, to comply with the monitoring requirements specified in this permit, at the location(s) specified below:



RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS

a) The permittee shall also refer to 6NYCRR Part 750 for additional information concerning monitoring and reporting requirements and conditions.

b) The monitoring information required by this permit shall be summarized, signed and retained for a period of three years from the date of the sampling for subsequent inspection by the Department or its designated agent. **Also, monitoring information required by this permit shall be summarized and reported by submitting;**

[X] (if box is checked) completed and signed Discharge Monitoring Report (DMR) forms for each __1__ month reporting period to the locations specified below. Blank forms are available at the Department's Albany office listed below. The first reporting period begins on the effective date of this permit and the reports will be due no later than the 28th day of the month following the end of each reporting period.

[ ] (if box is checked) an annual report to the Regional Water Engineer at the address specified below. The annual report is due by February 1 and must summarize information for January to December of the previous year in a format acceptable to the Department.

[X] (if box is checked) a monthly "Wastewater Facility Operation Report..." (form 92-15-7) to the:
[X] Regional Water Engineer and/or [ ] County Health Department or Environmental Control Agency specified below

Send the **original** (top sheet) of each DMR page to:

Department of Environmental Conservation
Division of Water
Bureau of Watershed Compliance Programs
625 Broadway
Albany, New York 12233-3506

Phone: (518) 402-8177

Send the **first copy** (second sheet) of each DMR page to:

Department of Environmental Conservation
Regional Water Engineer, Region 9
270 Michigan Avenue
Buffalo, New York 14203-2999

Phone: 716-851-7070

Send an **additional copy** of each DMR page to:

c) Noncompliance with the provisions of this permit shall be reported to the Department as prescribed in 6NYCRR Part 750.

d) Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.

e) If the permittee monitors any pollutant more frequently than required by the permit, using test procedures approved under 40 CFR Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculations and recording of the data on the Discharge Monitoring Reports.

f) Calculation for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

g) Unless otherwise specified, all information recorded on the Discharge Monitoring Report shall be based upon measurements and sampling carried out during the most recently completed reporting period.

h) Any laboratory test or sample analysis required by this permit for which the State Commissioner of Health issues certificates of approval pursuant to section five hundred two of the Public Health Law shall be conducted by a laboratory which has been issued a certificate of approval. Inquiries regarding laboratory certification should be sent to the Environmental Laboratory Accreditation Program, New York State Health Department Center for Laboratories and Research, Division of Environmental Sciences, The Nelson A. Rockefeller Empire State Plaza, Albany, New York 12201.

APPENDIX E: OLS Opinion of Probable Construction Cost

BUFFALO SEWER AUTHORITY LONG TERM CONTROL PLAN SELECTED ALTERNATIVE
ENGINEER'S OPINION OF PROBABLE PROJECT COST

SPP336B OLS (Sidney OLS)

6/14/2024 **v3.4.0** **3.26** **MG**

Description	Material				Installation [1]		Total Cost [2]	Notes
	Basis	No. Units	Per Unit	Subtotal	Per Unit	Subtotal		
Satellite Storage								
Land Acquisition	Acres	0.5	$ 111,520	$ 56,003	$ -	$ -	$ 56,003	Assumed equal to site clearing quantity. COB perfecting title
Survey & Stake-out	LS	1	$ 40,649	$ 40,649	$ -	$ -	$ 40,649	
Site Clearing	SF	21,875	$ 3	$ 65,867	$ -	$ -	$ 65,867	SF of tank + 25%
Excavation	CY	8,912	$ 33	$ 298,161	$ -	$ -	$ 298,161	
Rock Excavation	CY	22,280	$ 223	$ 4,969,352	$ -	$ -	$ 4,969,352	
Piles / Foundation	LS		$ 557,600	$ -	$ -	$ -	$ -	Piles not needed on bedrock
Bedding	CY	1,620	$ 86	$ 139,142	$ -	$ -	$ 139,142	
Structural Concrete	CY	2,990	$ 1,338	$ 4,001,356	$ -	$ -	$ 4,001,356	
Site Dewatering and Erosion Control	LS	1	$ -	$ -	$ 675,000	$ 675,000	$ 675,000	
Sheeting/Bracing	SF	21,425	$ 51	$ 1,099,098	$ -	$ -	$ 1,099,098	
Backfill	CY	18,229	$ 49	$ 894,483	$ -	$ -	$ 894,483	
Hauling	CY	0	$ 15	$ -	$ -	$ -	$ -	Hauling and disposal rolled into excavation costs
Cleaning Equipment	LF	125	$ 5,018	$ 627,300	$ -	$ -	$ 627,300	Tipping buckets price per Koester
Access Manholes	EA	3	$ 3,457	$ 10,371	$ -	$ -	$ 10,371	
Miscellaneous Site Restoration	LS	1	$ 223,040	$ 223,040	$ -	$ -	$ 223,040	Misc site and pipe trench restoration
Grass Restoration	SY	2,431	$ 10	$ 24,395	$ -	$ -	$ 24,395	Assumed equal to site clearing quantity
Satellite Storage Conveyance 1 / Connection to OLS								
Excavation	CY	2,073	$ 33	$ 69,368	$ -	$ -	$ 69,368	
Bedding	CY	27	$ 86	$ 2,319	$ -	$ -	$ 2,319	
Site Dewatering and Erosion Control	LS	1	$ -	$ -	$ 67,500	$ 67,500	$ 67,500	
Sheeting/Bracing	SF	15,995	$ 51	$ 820,530	$ -	$ -	$ 820,530	
Backfill	CY	2,073	$ 49	$ 101,740	$ -	$ -	$ 101,740	Equals excavation volume
Hauling	CY	0	$ 15	$ -	$ -	$ -	$ -	Assumed included in excavation costs
4 ft Concrete Pipe	LF	208	$ 892	$ 185,326	$ -	$ -	$ 185,326	
Cut Access into Main Interceptor	LS	1	$ 75,276	$ 75,276	$ -	$ -	$ 75,276	
Manholes	EA	1	$ 3,457	$ 3,457	$ -	$ -	$ 3,457	
Satellite Storage Conveyance 2 / OLS Effluent to Collection System								
Excavation	CY	2,963	33	$ 99,128	$ -	$ -	$ 99,128	
Bedding	CY	39	86	$ 3,349	$ -	$ -	$ 3,349	
Site Dewatering and Erosion Control	LS	1	0	$ -	$ 221,040	$ 221,040	$ 221,040	
Sheeting/Bracing	SF	26,666	51	$ 1,367,969	$ -	$ -	$ 1,367,969	
Backfill	CY	2,963	49	$ 145,388	$ -	$ -	$ 145,388	Equals excavation volume
Hauling	CY	0	15	$ -	$ -	$ -	$ -	Assumed included in excavation costs
3 ft Concrete Pipe	LF	346	558	$ 193,107	$ -	$ -	$ 193,107	
Cut Access into Main Interceptor	EA	1	75,276	$ 75,276	$ -	$ -	$ 75,276	
Manholes	EA	2	3,457	$ 6,914	$ -	$ -	$ 6,914	
Inlet and Outlet Gates								
4 ft Diameter Inlet and Outlet Gate	EA	2	$ 111,520	$ 200,000	$ -	$ -	$ 200,000	Broadway Oak RTC gates $100,000 each
				$ -	$ -	$ -	$ -	

Subtotal	**$**	**16,761,905**
Electrical, Controls and Instrumentation (15%)	**$**	**2,514,286**
Utility Relocation / Coordination (5%)	**$**	**838,095**
MPT (5%)	**$**	**838,095**
General Conditions, Bonds & Insurance (5% of Subtotal)	**$**	**1,047,619**
Base Probable Construction Cost (Rounded)	**$**	**22,000,000**
Inflation to Mid Point of Construction (4th Qtr. 2029)	**$**	**27,293,509**
Engineering Planning (2nd Qtr 2025)	**$**	**270,633**
Engineering Design (2nd Qrt. 2027)	**$**	**2,560,184**
Engineering During Construction (2nd Qrt. 2030)	**$**	**2,934,052**
Total Engineering Costs	**$**	**5,764,869**
Total Project Costs Subtotal	**$**	**33,058,378**
Contingency (35%)	**$**	**11,570,432**
Inflation to Midpoint of Construction	**$**	**44,628,810**
Total Probable Construction Cost per Gallon	**$**	**13.69**

Additional Assumptions

Estimate Preparation Date	6/10/2024	
Target design start	6/18/2025	
Target design end	6/18/2026	2.02 Years from June 2024
Target const start	6/18/2027	
Target const end	5/29/2032	
Estimated Midpoint of Construction	12/7/2029	5.50 Years from June 2024
Estimated Project Duration (yrs)	4.95	
Assumed inflation rate	0.04	

For items without installation cost, installation cost is included in material price.

CSO053_1.4 - Life Cycle Cost Estimate (50 years) for Offline Storage Tank with Gravity Dewatering

Description	Quantity	Unit	Unit Cost	Total Annual Cost	Comments
Annual Operation & Maintenance					
OLS Tank with Gravity Dewatering					
Operations Expenses					
Licensed Wastewater Treatment Plant Operator	52	hour	$ 50.00	$ 2,600	SCADA monitoring of entire collection system @ 1 hour per week
Water for Tipping Buckets	68.51	1000 cft	$ 22.83	$ 1,564	Assumes anticipated no. activations x 100 gal/ft of tipping bucket x length of tipping buckets
	4	quarter	$ 399.20	$ 1,597	$399.20 quarterly for 2" connection (specs mention 2" solenoid valve so flushing line is assumed to have that diameter)
Communications	12	month	$ 50.00	$ 600	Cellular data, alarm system, etc.
Routine Maintenance Expenses					
Weekly Check	104	hr	$ 43.73	$ 4,547	1 millwright (1.5 x wage to capture fringe benefits) @ 2 hours per week
	104	hr	$ 37.31	$ 3,880	1 millwright's helper (1.5 x wage to capture fringe benefits) @ 2 hours per week
	26	hr	$ 43.73	$ 1,137	2 instrument techs @ 0.25 hour per week
Annual Maintenance Labor (clean tank)	160	hr	$ 45.00	$ 7,200	2 Vactor Crews: 2 EOs @ 5 days per year
	240	hr	$ 42.00	$ 10,080	2 ERC Crews: 3 SCW @ 5 days per year
ANNUAL LABOR AND UTILITY TOTAL				$ 33,205	
Millwright's Truck	104	hour	$ 20.00	$ 2,080	1 Millwright's Truck ($150,000, 5 year life) @ 104 hours per year (weekly check) rounded to $20/hr
ERC Truck	1	week	$ 1,153.85	$ 1,154	2 ERC Truck ($150,000, 5 year life) @ 1 week per year (annual maintenance)
Vactor Truck	1	week	$ 6,410.26	$ 6,410	2 Vactor Trucks ($500K each, 3 year life) @ 1 work week per year
Skid Steer	1	week	$ 346.15	$ 346	2 Skid Steers ($45K each, 5 year life) @ 1 work week per year
Lubricants / Misc. Supplies	1	LS	$ 500.00	$ 500	
ANNUAL PARTS AND EQUIPMENT TOTAL				$ 10,490	
				Total Cost	
Rehabilitation Expenses					
Instrumentation Upgrades (every 5 years)	1	LS	$ 15,000.00	$ 15,000	Level, pressure, temp sensors, I&C/communication equipment
Cleaning Equipment Replacement (every 20 years)	1	LS	$ 562,500.00	$ 562,500	May also require crane
Engineering Evaluation (at year 25)	1	LS	$ 50,000.00	$ 50,000	Structural inspection, global control strategy review, etc.
Misc Metal Replacement (at year 25)	1	LS	$ 50,000.00	$ 50,000	Grating, railing, hatches

CSO053_1.4 - OLS Tank with Gravity Dewatering

Assumed Interest Rate = i = 5.0%

Assumed Inflation Rate = I = 4.5%

	Tank Operation and Maintenance									
Year (n)	Annual Labor and Electrical Cost (Prev. maint.)[1,2]	Labor Cost (2 yr. maint.)[1,2]	Labor Cost (5 yr. maint.)[1,2]	Labor Cost (25 yr. maint.)[1,2]	Annual Parts Cost (Prev. maint.)[2]	Rehab Cost (5 yr. maint.)[2]	Rehab Cost (20 yr. maint.)[2]	Rehab Cost (25 yr. maint.)[2]	Total Annual Cost	PW Cost[3]
0										
1	$ 34,699				$ 10,962				$ 45,661	$ 43,487
2	$ 36,261				$ 11,456				$ 47,716	$ 43,280
3	$ 37,892				$ 11,971				$ 49,863	$ 43,074
4	$ 39,597				$ 12,510				$ 52,107	$ 42,869
5	$ 41,379				$ 13,073	$ 18,693			$ 73,145	$ 57,311
6	$ 43,241				$ 13,661				$ 56,902	$ 42,461
7	$ 45,187				$ 14,276				$ 59,463	$ 42,259
8	$ 47,221				$ 14,918				$ 62,139	$ 42,058
9	$ 49,346				$ 15,590				$ 64,935	$ 41,858
10	$ 51,566				$ 16,291	$ 23,295			$ 91,152	$ 55,959
11	$ 53,887				$ 17,024				$ 70,911	$ 41,460
12	$ 56,312				$ 17,790				$ 74,102	$ 41,263
13	$ 58,846				$ 18,591				$ 77,436	$ 41,066
14	$ 61,494				$ 19,427				$ 80,921	$ 40,871
15	$ 64,261				$ 20,302	$ 29,029			$ 113,592	$ 54,640
16	$ 67,153				$ 21,215				$ 88,368	$ 40,482
17	$ 70,174				$ 22,170				$ 92,344	$ 40,290
18	$ 73,332				$ 23,168				$ 96,500	$ 40,098
19	$ 76,632				$ 24,210				$ 100,842	$ 39,907
20	$ 80,081				$ 25,299	$ 36,176	$ 1,356,589		$ 1,498,145	$ 564,635
21	$ 83,684				$ 26,438				$ 110,122	$ 39,528
22	$ 87,450				$ 27,628				$ 115,078	$ 39,339
23	$ 91,385				$ 28,871				$ 120,256	$ 39,152
24	$ 95,498				$ 30,170				$ 125,668	$ 38,966
25	$ 99,795			$ 150,272	$ 31,528	$ 45,082		$ 150,272	$ 476,948	$ 140,844
26	$ 104,286				$ 32,947				$ 137,232	$ 38,595
27	$ 108,979				$ 34,429				$ 143,408	$ 38,412
28	$ 113,883				$ 35,978				$ 149,861	$ 38,229
29	$ 119,008				$ 37,597				$ 156,605	$ 38,047
30	$ 124,363				$ 39,289	$ 56,180			$ 219,832	$ 50,864
31	$ 129,959				$ 41,057				$ 171,017	$ 37,685
32	$ 135,807				$ 42,905				$ 178,712	$ 37,506
33	$ 141,919				$ 44,836				$ 186,754	$ 37,327
34	$ 148,305				$ 46,853				$ 195,158	$ 37,149
35	$ 154,979				$ 48,962	$ 70,010			$ 273,951	$ 49,665
36	$ 161,953				$ 51,165				$ 213,118	$ 36,796
37	$ 169,241				$ 53,467				$ 222,708	$ 36,621
38	$ 176,856				$ 55,873				$ 232,730	$ 36,447
39	$ 184,815				$ 58,388				$ 243,203	$ 36,273
40	$ 193,132				$ 61,015	$ 87,245	$ 3,271,705		$ 3,613,097	$ 513,225
41	$ 201,823				$ 63,761				$ 265,583	$ 35,929
42	$ 210,905				$ 66,630				$ 277,535	$ 35,757
43	$ 220,395				$ 69,628				$ 290,024	$ 35,587
44	$ 230,313				$ 72,762				$ 303,075	$ 35,418
45	$ 240,677				$ 76,036	$ 108,724			$ 425,437	$ 47,350
46	$ 251,508				$ 79,458				$ 330,965	$ 35,081
47	$ 262,826				$ 83,033				$ 345,859	$ 34,914
48	$ 274,653				$ 86,770				$ 361,422	$ 34,748
49	$ 287,012				$ 90,674				$ 377,686	$ 34,582
50	$ 299,928			$ 451,632	$ 94,755	$ 135,490		$ 451,632	$ 1,433,435	$ 125,001
										$ 3,214,370

1. Labor Rates are calculated on Life Cycle Costs worksheet.
2. Future Annual Cost = Present Annual Cost x (1 + Inflation Rate) ^{Year} = $A_o(1+I)^n$ (present annual costs located on the O&M Costs worksheet).
3. Present Worth Cost = PW = Future Annual Cost / (1 + Interest Rate) ^{Year} = $F / (1 + i)^n$

BUFFALO SEWER AUTHORITY LONG TERM CONTROL PLAN SELECTED ALTERNATIVE
ENGINEER'S OPINION OF PROBABLE PROJECT COST

Schiller Park OLS

1/17/2022 **v3.4.0** **8.00** **MG**

Description	Material				Installation [1]		Total Cost [2]	Notes
	Basis	No. Units	Per Unit	Subtotal	Per Unit	Subtotal		
Satellite Storage								
Land Acquisition	Acres	3.1	$ 100,000	$ 306,909	$ -	$ -	$ 306,909	Assumed equal to site clearing quantity. COB-owned (Schiller Park)
Survey & Stake-out	LS	1	$ 36,450	$ 36,450	$ -	$ -	$ 36,450	
Site Clearing	SF	133,690	$ 3	$ 360,963	$ -	$ -	$ 360,963	SF of tank + 25%
Excavation	CY	99,030	$ 30	$ 2,970,889	$ -	$ -	$ 2,970,889	
Rock Excavation	CY	43,524	$ 200	$ 8,704,704	$ -	$ -	$ 8,704,704	
Piles / Foundation	LS	0	$ 500,000	$ -	$ -	$ -	$ -	Piles not needed on bedrock
Bedding	CY	9,903	$ 77	$ 762,528	$ -	$ -	$ 762,528	
Structural Concrete	CY	16,736	$ 1,200	$ 20,083,360	$ -	$ -	$ 20,083,360	
Site Dewatering and Erosion Control	LS	1		$ -	$ 675,000	$ 675,000	$ 675,000	
Sheeting/Bracing	SF	40,349	$ 46	$ 1,856,060	$ -	$ -	$ 1,856,060	
Backfill	CY	102,941	$ 44	$ 4,529,417	$ -	$ -	$ 4,529,417	
Hauling	CY	0	$ 14	$ -	$ -	$ -	$ -	Hauling and disposal rolled into excavation costs
Cleaning Equipment	LF	267	$ 4,500	$ 1,203,210	$ -	$ -	$ 1,203,210	Tipping buckets price per Koester
Access Manholes	EA	3	$ 3,100	$ 9,300	$ -	$ -	$ 9,300	
Miscellaneous Site Restoration	LS	1	$ 200,000	$ 200,000	$ -	$ -	$ 200,000	to cover conveyance restoration
Grass Restoration	SY	14,854	$ 9	$ 133,690	$ -	$ -	$ 133,690	Assumed equal to site clearing quantity
Satellite Storage Conveyance 1 / Connection to OLS								
Excavation	CY	2,003	$ 30	$ 60,101	$ -	$ -	$ 60,101	
Bedding	CY	35	$ 77	$ 2,695	$ -	$ -	$ 2,695	
Site Dewatering and Erosion Control	LS	1		$ -	$ 67,500	$ 67,500	$ 67,500	
Sheeting/Bracing	SF	15,454	$ 46	$ 710,906	$ -	$ -	$ 710,906	
Backfill	CY	2,003	$ 44	$ 88,148	$ -	$ -	$ 88,148	Assumed to be the same as volume excavatec
Hauling	CY	0	$ 14	$ -	$ -	$ -	$ -	Assumed to be included with excavation
4 ft Concrete Pipe	LF	268	$ 800	$ 214,720	$ -	$ -	$ 214,720	
Cut Access into Main Interceptor	LS	1	$ 67,500	$ 67,500	$ -	$ -	$ 67,500	
Manholes	EA	2	$ 3,100	$ 6,200	$ -	$ -	$ 6,200	
Satellite Storage Conveyance 2								
Excavation	CY	6,535	$ 30	$ 196,041	$ -	$ -	$ 196,041	
Bedding	CY	114	$ 77	$ 8,778	$ -	$ -	$ 8,778	
Site Dewatering and Erosion Control	LS	1		$ -	$ 67,500	$ 67,500	$ 67,500	
Sheeting/Bracing	SF	50,411	$ 46	$ 2,318,888	$ -	$ -	$ 2,318,888	Assumed to be the same as volume excavatec
Backfill	CY	6,535	$ 44	$ 287,527	$ -	$ -	$ 287,527	Assumed to be included with excavation
Hauling	CY	0	$ 14	$ -	$ -	$ -	$ -	Hauling and disposal rolled into excavation costs
4 ft Concrete Pipe	LF	875	$ 800	$ 700,390	$ -	$ -	$ 700,390	
Cut Access into Main Interceptor	EA	1	$ 67,500	$ 67,500	$ -	$ -	$ 67,500	
Manholes	EA	4	$ 3,100	$ 12,400	$ -	$ -	$ 12,400	
Inlet and Outlet Gates								
4 ft Diameter Inlet Gate	EA	1	$ 100,000	$ 100,000	$ -	$ -	$ 100,000	Broadway Oak RTC gates $100,000 each
4 ft Diameter Outlet Gate	EA	1	$ 100,000	$ 100,000	$ -	$ -	$ 100,000	Broadway Oak RTC gates $100,000 each

Subtotal	**$**	**46,900,000**
Electrical, Controls and Instrumentation (15%)	**$**	**7,000,000**
Utility Relocation / Coordination (5%)	**$**	**2,300,000**
MPT (5%)	**$**	**2,300,000**
General Conditions, Bonds & Insurance (5% of Subtotal)	**$**	**2,900,000**
Base Probable Construction Cost (Rounded)	**$**	**61,400,000**
Contingency (40%)	**$**	**24,560,000**
Total Probable Construction Cost	**$**	**85,960,000**
Total Probable Construction Cost per Gallon	**$**	**10.75**

(1) For items without installation cost, installation cost is included in material price

(2) Year 2022 dollars. Does not include engineering, administrative, and legal costs or contingency

System_2 Schiller Park - Life Cycle Cost Estimate (50 years) for Offline Storage Tank with Gravity Dewatering

Description	Quantity	Unit	Unit Cost	Total Annual Cost	Comments
Annual Operation & Maintenance					
OLS Tank with Gravity Dewatering					
Operations Expenses					
Licensed Wastewater Treatment Plant Operator	52	hour	$ 50.00	$ 2,600	SCADA monitoring of entire collection system @ 1 hour per week
Water for Tipping Buckets	121.53	1000 cft	$ 22.83	$ 2,774	Assumes anticipated no. activations x 100 gal/ft of tipping bucket x length of tipping buckets
	4	quarter	$ 399.20	$ 1,597	$399.20 quarterly for 2" connection (specs mention 2" solenoid valve so flushing line is assumed to have that diameter)
Communications	12	month	$ 50.00	$ 600	Cellular data, alarm system, etc.
Routine Maintenance Expenses					
Weekly Check	104	hr	$ 43.73	$ 4,547	1 millwright (1.5 x wage to capture fringe benefits) @ 2 hours per week
	104	hr	$ 37.31	$ 3,880	1 millwright's helper (1.5 x wage to capture fringe benefits) @ 2 hours per week
	26	hr	$ 43.73	$ 1,137	2 instrument techs @ 0.25 hour per week
Annual Maintenance Labor (clean tank)	160	hr	$ 45.00	$ 7,200	2 Vactor Crews: 2 EOs @ 5 days per year
	240	hr	$ 42.00	$ 10,080	2 ERC Crews: 3 SCW @ 5 days per year
ANNUAL LABOR AND UTILITY TOTAL				$ 34,415	
Millwright's Truck	104	hour	$ 20.00	$ 2,080	1 Millwright's Truck ($150,000, 5 year life) @ 104 hours per year (weekly check) rounded to $20/hr
ERC Truck	1	week	$ 1,153.85	$ 1,154	2 ERC Truck ($150,000, 5 year life) @ 1 week per year (annual maintenance)
Vactor Truck	1	week	$ 6,410.26	$ 6,410	2 Vactor Trucks ($500K each, 3 year life) @ 1 work week per year
Skid Steer	1	week	$ 346.15	$ 346	2 Skid Steers ($45K each, 5 year life) @ 1 work week per year
Lubricants / Misc. Supplies	1	LS	$ 500.00	$ 500	
ANNUAL PARTS AND EQUIPMENT TOTAL				$ 10,490	
				Total Cost	
Rehabilitation Expenses					
Instrumentation Upgrades (every 5 years)	1	LS	$ 15,000.00	$ 15,000	Level, pressure, temp sensors, I&C/communication equipment
Cleaning Equipment Replacement (every 20 years)	1	LS	$ 1,203,210.00	$ 1,203,210	May also require crane
Engineering Evaluation (at year 25)	1	LS	$ 50,000.00	$ 50,000	Structural inspection, global control strategy review, etc.
Misc Metal Replacement (at year 25)	1	LS	$ 50,000.00	$ 50,000	Grating, railing, hatches

System_2 Schiller Park - OLS Tank with Gravity Dewatering

Assumed Interest Rate = i = 5.0%

Assumed Inflation Rate = I = 4.5%

	Tank Operation and Maintenance									
Year (n)	Annual Labor and Electrical Cost (Prev. maint.)[1,2]	Labor Cost (2 yr. maint.)[1,2]	Labor Cost (5 yr. maint.)[1,2]	Labor Cost (25 yr. maint.)[1,2]	Annual Parts Cost (Prev. maint.)[2]	Rehab Cost (5 yr. maint.)[2]	Rehab Cost (20 yr. maint.)[2]	Rehab Cost (25 yr. maint.)[2]	Total Annual Cost	PW Cost[3]
0										
1	$ 35,964				$ 10,962				$ 46,926	$ 44,692
2	$ 37,582				$ 11,456				$ 49,038	$ 44,479
3	$ 39,274				$ 11,971				$ 51,245	$ 44,267
4	$ 41,041				$ 12,510				$ 53,551	$ 44,056
5	$ 42,888				$ 13,073	$ 18,693			$ 74,653	$ 58,493
6	$ 44,818				$ 13,661				$ 58,479	$ 43,638
7	$ 46,834				$ 14,276				$ 61,110	$ 43,430
8	$ 48,942				$ 14,918				$ 63,860	$ 43,223
9	$ 51,144				$ 15,590				$ 66,734	$ 43,017
10	$ 53,446				$ 16,291	$ 23,295			$ 93,031	$ 57,113
11	$ 55,851				$ 17,024				$ 72,875	$ 42,609
12	$ 58,364				$ 17,790				$ 76,154	$ 42,406
13	$ 60,991				$ 18,591				$ 79,581	$ 42,204
14	$ 63,735				$ 19,427				$ 83,163	$ 42,003
15	$ 66,603				$ 20,302	$ 29,029			$ 115,934	$ 55,766
16	$ 69,600				$ 21,215				$ 90,816	$ 41,604
17	$ 72,732				$ 22,170				$ 94,902	$ 41,406
18	$ 76,005				$ 23,168				$ 99,173	$ 41,208
19	$ 79,426				$ 24,210				$ 103,636	$ 41,012
20	$ 83,000				$ 25,299	$ 36,176	$ 2,901,798		$ 3,046,273	$ 1,148,108
21	$ 86,735				$ 26,438				$ 113,173	$ 40,622
22	$ 90,638				$ 27,628				$ 118,265	$ 40,429
23	$ 94,716				$ 28,871				$ 123,587	$ 40,237
24	$ 98,979				$ 30,170				$ 129,149	$ 40,045
25	$ 103,433			$ 150,272	$ 31,528	$ 45,082		$ 150,272	$ 480,586	$ 141,918
26	$ 108,087				$ 32,947				$ 141,034	$ 39,664
27	$ 112,951				$ 34,429				$ 147,380	$ 39,476
28	$ 118,034				$ 35,978				$ 154,012	$ 39,288
29	$ 123,346				$ 37,597				$ 160,943	$ 39,101
30	$ 128,896				$ 39,289	$ 56,180			$ 224,365	$ 51,913
31	$ 134,696				$ 41,057				$ 175,754	$ 38,729
32	$ 140,758				$ 42,905				$ 183,663	$ 38,545
33	$ 147,092				$ 44,836				$ 191,928	$ 38,361
34	$ 153,711				$ 46,853				$ 200,564	$ 38,178
35	$ 160,628				$ 48,962	$ 70,010			$ 279,600	$ 50,689
36	$ 167,856				$ 51,165				$ 219,021	$ 37,816
37	$ 175,410				$ 53,467				$ 228,877	$ 37,636
38	$ 183,303				$ 55,873				$ 239,177	$ 37,456
39	$ 191,552				$ 58,388				$ 249,940	$ 37,278
40	$ 200,172				$ 61,015	$ 87,245	$ 6,998,308		$ 7,346,740	$ 1,043,573
41	$ 209,179				$ 63,761				$ 272,940	$ 36,924
42	$ 218,592				$ 66,630				$ 285,223	$ 36,748
43	$ 228,429				$ 69,628				$ 298,058	$ 36,573
44	$ 238,708				$ 72,762				$ 311,470	$ 36,399
45	$ 249,450				$ 76,036	$ 108,724			$ 434,210	$ 48,326
46	$ 260,676				$ 79,458				$ 340,133	$ 36,053
47	$ 272,406				$ 83,033				$ 355,439	$ 35,881
48	$ 284,664				$ 86,770				$ 371,434	$ 35,710
49	$ 297,474				$ 90,674				$ 388,148	$ 35,540
50	$ 310,860			$ 451,632	$ 94,755	$ 135,490		$ 451,632	$ 1,444,368	$ 125,954
										$ 4,379,800

1. Labor Rates are calculated on Life Cycle Costs worksheet.
2. Future Annual Cost = Present Annual Cost x (1 + Inflation Rate)^{Year} = $A_o(1+I)^n$ (present annual costs located on the O&M Costs worksheet).
3. Present Worth Cost = PW = Future Annual Cost / (1 + Interest Rate)^{Year} = $F / (1 + i)^n$

APPENDIX F: Engineering Report Certification

NEW YORK STATE | Environmental Facilities Corporation

ENGINEERING REPORT CERTIFICATION

To Be Provided by the Professional Engineer Preparing the Report

During the preparation of this Engineering Report, I have studied and evaluated the cost and effectiveness of the processes, materials, techniques, and technologies for carrying out the proposed project or activity for which assistance is being sought from the New York State Clean Water State Revolving Fund. In my professional opinion, I have recommended for selection, to the maximum extent practicable, a project or activity that maximizes the potential for efficient water use, reuse, recapture, and conservation, and energy conservation, taking into account the cost of constructing the project or activity, the cost of operating and maintaining the project or activity over the life of the project or activity, and the cost of replacing the project and activity.

Title of Engineering Report: CSO053_1.4 Sidney Real-Time Control (RTC) P.E.R.

Date of Report: April 1, 2025

Professional Engineer's Name: Walter A. Walker, PE

Signature:

Date: April 1, 2025

STATE OF NEW YORK
WALTER ADAM WALKER JR.
No. 097398
LICENSED PROFESSIONAL ENGINEER

APPENDIX G: Xylem Alternatives Analysis

BSA Queen City Clean Waters Program Alternatives and Design Log

5/15/2024

Color Key

	OLS
	SPP modification (SPP mod)
	RTC

Abbreviations

DUC	Dynamic Underflow Control
GCCS	Globally Coordinated Control Strategy
GI	Green Infrastructure
ILS	In-line Storage
LTCP	Long Term Control Plan
OLS	Off-line Storage
PER	Preliminary Engineering Report
RTC	Real-Time Control
SPP	Sewer Patrol Point
SWMM	Stormwater Management Model

Xylem Deliverable References

BSA_CSO_TY_Results_Current_Status_Comments_220126.xlsx
Pres_BSA_299_LTCPOptimizationWorkshop6_220526.pdf
Pres_BSA_299_LTCPOptimizationWorkshop8_220728_v2.pdf
Pres_BSA_299_LTCPOptimizationWorkshop9_220825_v2.pdf
Pres_BSA_299_LTCPOptimizationWorkshop10_220928.pdf
TM_BSA_299_LTCP_Optimization_Selected_Alternative_230131.pdf
TM_BSA_299_BridgingDocument_230531_v2.pdf

SPP 336 A/B (SPP165A, SPP165B, SPP336A, SPP 336B) (4.2 MG) (M) Replaced by **CSO053_1.4 3.26 MG Sidney OLS**	
Lead Design Consultant	TY Lin / G&H (PER)
Conceptual Design Scope	To reduce flows at SPP336B, the Sidney Street OLS would store flow diverted from the sewer along Humboldt Parkway in a 3.26 MG tank at the corner of Sidney Street and Lark Street. The storage would dewater via gravity when there is sufficient available capacity in the Scajaquada Tunnel Interceptor.

SPP336B Alternatives Considered				
Tag	**Project**	**Project Type**	**Current Estimated Total Present Worth Cost (2022 Dollars)**	**Alternative Notes**
N/A	East Ferry ILS	ILS	N/A	**In 2014 LTCP**, but removed from consideration prior to optimization. Investigations have demonstrated that storage is not available in this section due to low basement and side sewer connections. This project is therefore no longer being contemplated.
N/A	SPP 336 A/B (SPP165A, SPP165B, SPP336A, SPP 336B) 4.2 MG OLS	OLS	N/A	**In the 2014 LTCP**, but the updated model indicates that 336A is already in compliance. Additionally, as described in the LTCP, the SPP 336 A/B OLS project would require the acquisition and demolition of occupied homes in East Buffalo near the site of the May 14, 2022, Tops Friendly Markets racially motivated massacre. Alternatives were explored on vacant land that would require less disruption in this neighborhood. Removed from consideration.
CSO053_1.4	SPP336B OLS (Sidney OLS)	OLS	$ 30,934,370	The SPP 336 A&B (CSO-053) Satellite Storage at Humboldt Parkway will be replaced with a smaller 3.26 MG tank at the corner of Sidney Street and Lark Street. This area is on vacant land that will be maintained as a parking lot or pocket park after Substantial Completion. Included **in Selected Alternative**, works with CSO053_1.5 to achieve compliance for SPP336B.
CSO053_1.5	Schiller Park OLS SPP336B Modification	SPP Mod	$ 175,380	Included **in Selected Alternative**, works with CSO053_1.4 to achieve compliance for SPP336B.

Design Log		
Date	**Phase**	**Note**
9/28/2022	Optimization	To get to compliance for SPP336B, updated Updated Sidney OLS configuration (deeper to get more storage volume)
4/11/2024	PER	Had tried to reduce to 2.62 MG to fit better on that parcel, but had to upsize to 3.26 MG to get to compliance. 4.2 MG was the original project size in the LTCP. Moving forward we should plan on 3.26 MG for Sidney OLS, unless site constraints dictate otherwise in the detailed design phase. Suggested running final 2039 conditions model (BSA_ProposedLTCP_010139Projects_TY_r5 _exp1) with the storage area reduced to 17,500 sq. ft. (2.62 MG volume) to confirm if that size achieves compliance. If it does, the design engineer can evaluate options for a range from 2.62-3.26 MG. If not, they will need to evaluate the best way to fit 3.26 MG of storage in that area.

APPENDIX H: RTC Opinion of Probable Construction Cost

Buffalo Sewer Authority Long Term Control Plan
Engineer's Opinion of Probable Project Cost
Class 4 Cost Estimate
Sidney RTC
3/24/2025

Description	Material				Labor & Equipment		Total Cost	Notes
RTC	Basis	No. Units	Per Unit	Subtotal	Per Unit	Subtotal		
Excavation (soil)	CY	2,326	$ 25.00	$ 58,150.00	$ 4.00	$ 9,304.00	$ 67,454	Assume depth of excavation is constant. Top 8ft is soil, 785ft length, 10ft width, assume 6' to 10' deep, 3/4 CY excavator
Excavation (rock)	CY	5,525	$ 100.00	$ 552,500.00	$ 10.00	$ 55,250.00	$ 607,750	Assume depth of excavation is constant. Btm 19ft, 785ft length, 10ft width, $10/cy for equipment+labor for drilling and blasting rock over 1500 CY
Overflow Structure (connects the 84" to our 48" pipe)	EA	1			$ 800,000.00	$ 800,000.00	$ 800,000	as per PER Cost Estimate
Automated Gate	EA	1	$ 100,000.00	$ 100,000.00		$ -	$ 100,000	Assume 36" x 36" gate
48" RCP Pipe	LF	330	$ 150.00	$ 49,500.00	$ 177.00	$ 58,410.00	$ 107,910	As measured on 30% drawings, unit cost from Breckenridge+more material
108" Manhole	EA	1	$ 10,000.00	$ 10,000.00			$ 10,000	Check with Tim
48" RCP Pipe	LF	455	$ 150.00	$ 68,250.00	$ 177.00	$ 80,535.00	$ 148,785	As measured on 30% drawings,unit cost from Breckenridge
Trench Box	DAY	100		$ -	$ 240.00	$ 24,000.00	$ 24,000	Assume rent for 100days (3months)
Crushed Stone Bedding	CY	146	$ 22.00	$ 3,212.00	$ 10.00	$ 1,460.00	$ 4,672	From RSMeans for crushed stone 3/4" to 1/2". 10ft width, 0.5ft depth and 766ft length
Backfill	CY	7,172	$ 26.00	$ 186,472.00	$ 23.00	$ 164,956.00	$ 351,428	Unit cost from Breckenridge
Hauling and disposal	CY	679	$ 20.00	$ 13,580.00	$ 40.00	$ 27,160.00	$ 40,740	Unit cost from Breckenridge
Power and Control Unit	LS	1			$ 200,000.00	$ 200,000.00	$ 200,000	
New Granite Curb	LF	455			$ 135.00	$ 61,425.00	$ 61,425	Unit cost from Breckenridge
New Sidewalk	SF	1,820	$ 4.00	$ 7,280.00	$ 5.00	$ 9,100.00	$ 16,380	Unit cost from Breckenridge. Assume 4ft width for sidewalk
Pavement Restoration	LS	1				$ 300,000	$ 300,000	
Drop Shaft Structure	LS	1				$ 1,500,000	$ 1,500,000	

	Subtotal	**$ 4,340,544**
Electrical, Controls and Instrumentation (15%)		$ 651,082
Utility Relocation / Coordination (5%)		$ 217,027
MPT (5%)		$ 217,027
Mobilization/Demobilization (5%)		$ 217,027
Overhead and Profit (15%)		$ 651,082
General Conditions, Bonds & Insurance (5% of Subtotal)		$ 217,027
Base Probable Construction Cost (Rounded)		$ 6,510,816
Engr, Admin, Legal, Bonding (25%)		$ 1,627,704
Contingency (35%)		$ 2,278,786
Subtotal		**$ 10,417,306**
Escalation to Mid Point of Construction (Jan 2028)		$ 1,093,817
Subtotal		$ 11,511,123
Total Probable Construction Cost - Class 4 Upper End Cost (+50%) (Rounded)		**$ 17,300,000**

Attachment E to the Semi-Annual Status Report: September 2025

Board Items for LTCP Projects

MINUTES OF THE REGULAR MEETING

OF THE

BUFFALO SEWER AUTHORITY

January 8, 2025

BUFFALO SEWER AUTHORITY

REGULAR MEETING
January 8, 2025
9:00 A.M.

Buffalo City Hall, 65 Niagara Square Room 1038
Teleconference +1 917- 933-2166, ID #506 002 605#

ITEM NO.	CONTENTS	PAGE NO.
	Roll Call	
1	Motion to Adopt the Minutes of December 4, 2024	59152
2	Approval of Consent Agenda	59153-61
	A. Informative: Temporary Investments	
	B. Informative: Reallocation of Funds	
	C. Payment From Judgment and Claims	
	D. Amendment to Board Resolution No. 2-D of the December 4, 2024, Board Meeting - Confirmation of Appointment for Andrew Strug	
	E. Amendment to Schedule of Job Classification Plan	
	F. Confirmation of Appointments	
	G. Tuition Reimbursement	
3	Construction Fund Amendment	59162-63
4	Approval of the Annual Comprehensive Financial Report, the Annual Investment Report, and Mission Statement and Annual Measurement Report the for the Fiscal Year Ended June 30, 2024	59164
5	Report on Bids Received - Purchase of Various New & Unused Steel Products	59165
6	Change Order No.6– Contract No. 82000017	59166-68
7	Certificate of Acceptance and Occupancy	59169

8	Authorization to Renew a Professional Services Agreement with The Research Foundation for The State University of New York	59170-71
9	Declaration of Lead Agency for State Environmental Quality Review for CSO-053 Edison and Martha OLS Project	58972
9-1	Authorization To Enter into A Memorandum of Understanding with The City of Buffalo Regarding The City Of Buffalo's Allocation Of American Rescue Plan Funds To The Buffalo Sewer Authority As A Subawardee	59173
10	Adjournment of Meeting	59174

ATTACHMENTS

Attachment A: The Annual Comprehensive Financial Report

Attachment B: The Annul Investment Report

Attachment C: The Mission Statement and Annual Measurement Report

Attachment D: SEQR
Project: CSO-053 Edison and Martha OLS

CALL OF THE ROLL

Present:	Herbert Bellamy, Jr.	Chairman of Board
	Christopher Roosevelt	Vice Chairman of the Board
	Eleanor Petrucci	Secretary of the Board
	Charles Riley	Executive Secretary
	Cheryl Colston	General Counsel
	Gelea Y. James	Director of Employee Relations
	Adam Sassone	Secretary to General Manager
	Alexander Emmerson	Treatment Plant Superintendent
	Paul Harris	Superintendent of Mechanical Maintenance
	Rosaleen Nogle, P.E.	Assistant Principal Engineer
	Joel Renzoni	Director of Sewer Maintenance
	Timothy Blake	Senior Instrument Technician
	Desiree Briggs	Account Clerk Typist
	Regina Harris	Senior Engineer
	Christopher Sieracki	TY-Lin
	Nadia Mugisha, P.E.	Arcadis
	Walter Walker, P.E.	TY-Lin
	Laura Surdej	Erie County Department of Sewerage
	Carol Burns	Executive Assistant to Comptroller

The meeting was called to order at 9:38 A.M. A quorum was present.

ITEM NO. 1

Motion to Adopt the Minutes of the Meeting of December 4, 2024

MOTION TO ADOPT

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of January 8, 2025

ITEM NO. 2

APPROVAL OF CONSENT AGENDA

CONTENTS

A. Informative: Temporary Investments

B. Informative: Reallocation of Funds

C. Payment From Judgment and Claims

D. Amendment to Board Resolution No. 2-D Of the December 4, 2024, Board Meeting - Confirmation of Appointment for Andrew Strug

E. Amendment to Schedule of Job Classification Plan

F. Confirmation of Appointments

G. Tuition Reimbursement

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of January 8, 2025

2-A

INFORMATIVE: TEMPORARY INVESTMENTS (CERTIFICATES OF DEPOSIT AND TREASURY BILLS)

As of November 30th,2024

ISSUE DATE	MATURITY DATE	TOTAL DAYS	AMOUNT	BANK	RATE	INTEREST AMOUNT
CONSTRUCTION/CAPITAL IMPROVEMENT FUND						
31-Jul-12	**MONEY MARKET**		$1,827,989.74	Key	0.01%	Public NOW
24-Oct-24	5-Dec-24	42	$5,499,192.24	Key Banc Capital	4.62%	$29,807.76
7-Nov-24	19-Dec-24	42	$2,999,206.43	Key Banc Capital	4.49%	$15,793.53
			$10,326,388.41			
LIABILITY AND CASUALTY RESERVE FUND						
31-Jul-12	**MONEY MARKET**		$242,956.31	Key	0.01%	Public NOW
17-Oct-24	16-Jan-25	91	$771,166.93	Key Banc Capital	4.48%	$8,833.07
			$1,014,123.24			
OPERATING FUND						
31-Jul-12	**SUPER NOW**		**$1,011,889.11**	Key	0.01%	Public NOW
TRUST & AGENCY FUND						
31-Jul-12	**SUPER NOW**		**$26,234.17**	Key	0.01%	Public NOW
SURPLUS FUND						
			$621.11	Wilmington U.S. Treasury	4.79%	
21-Nov-24	15-May-25	175	$10,004,262.50	Key Banc Capital	4.50%	$223,737.50
			$10,004,883.61			
NET REVENUE FUND						
			$227,913.51	Wilmington U.S. Treasury		
26-Sep-24	26-Dec-24	91	$15,549,099.23	Key Banc Capital	4.48%	$177,900.77
4-Oct-25	28-Jan-25	116	$7,499,639.87	Key Banc Capital	4.38%	$107,360.13
31-Oct-24	25-Feb-25	117	$7,998,401.65	M&T Securities	4.42%	$116,598.35
26-Nov-24	28-Jan-25	63	$7,499,174.78	Key Banc Capital	4.37%	$57,825.22
			$38,774,229.04			

BSA 2021 EIB FUND

			$1,159,823.53	Cash	0.00%	
20-Jun-24	12-Dec-24	175	$9,984,839.11	Key Banc Capital	5.13%	$255,160.89
5-Jul-24	19-Dec-24	167	$10,101,710.82	Key Banc Capital	5.09%	$244,289.18
14-Nov-24	8-May-25	175	$32,615,964.44	Key Banc Capital	4.26%	$690,035.56
			$53,862,337.90			

DEBT RESERVE FUND

				Series J		
02-Jul-14	13-Nov-33	7076	**$278,395.02**	UST State/Local Govt	2.70%	
				Series K		
02-Jul-14	15-Feb-33	6803	**$194,245.26**	UST State/Local Govt	2.70%	
				Series L		
12-Nov-15	1-Oct-35	7263	**$689,547.00**	UST State/Local Govt	2.44%	
				Series M		
27-Jun-14	1-May-44	10901	**$585,063.94**	UST State/Local Govt	2.70%	
				Series N		
15-Nov-12	15-Apr-32	7091	**$2,167,157.00**	UST State/Local Govt	2.42%	
			EFC 2021			
			$559.90	Wilmington U.S. Treasury	4.79%	
22-Aug-24	13-Feb-25	175	$349,820.69	Key Banc Capital	4.70%	$8,179.31
			$350,380.59			

DSF PRIN &INT

$0.01 Wilmington Fund

DSF 2021 EIB

$1,200,301.93 Wilmington Fund 4.79%

RECEIVE & FILE

Board Meeting of January 8th, 2025

2-B

INFORMATIVE: REALLOCATION OF FUNDS

The following budgetary transfers have been made to cover unforeseen shortages. These transfers do not change the total amount of the Buffalo Sewer Authority's operating budget.

Wastewater Treatment Plant

11/15/2024	00400103 HAMBURG Darin Float Water	-$5,000.00	00390103 HAMBURG Drain Float	$5,000.00
11/15/2024	00200106 PLAN Maintenance Contract	-$74,595.60	00200107 PLAN Office Equipment	$74,595.60
12/05/2024	00200106 PLAN Maintenance Contract	-$17,600.00	00200107 PLAN Office Equipment	$17,600.00
12/11/2024	00370105 CENT. Equipment Maintenance	-$45,914.09	00520107 MAIN Cars and Equipment	$45,914.09
12/13/2024	00270105 GAS Equipment Maintenance	-$7,100.00	00270105 GAS Equipment Maintenance	$7,100.00

Financial Contingency

12/05/2024	00800183 Financial Contingency	-$5,000.00	00800108 FIN Judgements & Claims	$5,000.00

RECEIVE & FILE

Board Meeting of January 8, 2025

2-C

PAYMENT FROM JUDGMENT AND CLAIMS

WHEREAS: Board approval is required for charges made against the Buffalo Sewer Authority's current budget for services and /or materials received during a prior fiscal year; and

WHEREAS: The following services were received during a prior fiscal year and charged to the 2024-2025 budget account no. 00800108-480214**:**

VENDOR	INVOICE	AMOUNT
New Era Technology	180920-US20	$697.00
New Era Technology	182880-US20	$50.00
New Era Technology	CW173525	$2,997.89

; and

WHEREAS: The Executive Secretary and staff recommend the above payment from the Judgment and Claims account.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves the above payments from the Judgment and Claims account no. 00800108-480214.

2-D

AMENDMENT TO BOARD RESOLUTION NO. 2-D OF THE DECEMBER 4, 2024, BOARD MEETING - CONFIRMATION OF APPOINTMENT FOR ANDREW STRUG

WHEREAS: On December 4, 2024, the Board of the Buffalo Sewer Authority authorized Resolution No. 2-D: Confirmation of Appointments; and

WHEREAS: After the December 4, 2024 Board Meeting, the it was discovered that there was a clerical error regarding Andrew Strug's classification. The December 4th, 2024 Board item incorrectly classified Andrew Strug as Provisional. The correct classification is Temporary. All other information regarding this appointment remains the same.

WHEREAS: The Director of Human Resources recommends that an amendment to Resolution No. 2-D of the Board Meeting of December 4, 2024, be approved reflecting the information below.

SEWER CONSTRUCTION INSPECTOR (TEMPORARY)
SEWAGE TREATMENT PLANT
$74,793 PER ANNUM
EFFECTIVE: SEPTEMBER 30, 2024

NOW THEREFORE
BE IT RESOLVED: That the preceding corrected appointment is hereby confirmed by the Board of the Buffalo Sewer Authority.

2-E

AMENDMENT TO SCHEDULE OF JOB CLASSIFICATION PLAN

WHEREAS: There is a need to modify the Job Classification Plan.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority approves the deletion of the following position to the Job Classification Plan:

One (1) Clerk	00120121	411001

2-F

CONFIRMATION OF APPOINTMENTS

ACCOUNT CLERK-TYPIST (PERMANENT)
CITY HALL ADMINISTRATION
$50,365 PER ANNUM
EFFECTIVE: DECEMBER 23, 2024

CRYSTALEE LOZADA
301 GERMANIA ST.
BUFFALO, NY 14220

WHEREAS: The preceding appointments were made by the General Manger since the last Board Meeting; and

WHEREAS: The Executive Secretary requests confirmation of each appointment.

NOW THEREFORE
BE IT RESOLVED: That the preceding appointments are hereby confirmed by the Board of the Buffalo Sewer Authority

2-G

TUITION REIMBURSEMENT

WHEREAS: In accordance with the Agreements between the Buffalo Sewer Authority and CSEA Local 815 and the Communications Workers of America, the following Buffalo Sewer Authority employees have applied for Tuition Reimbursement:

EMPLOYEE	SCHOOL	COURSE	TUITION%	REIMBURSEMENT TOTAL
Crystalee Lozada	Empire State University	Human Nutrition	75%	$1,088.04
Crystalee Lozada	Empire State University	Tools + Strat for Acad Suc	90%	$1,162.04
Crystalee Lozada	Empire State University	Fees		$150.00
Daniel O'Sullivan	University At Buffalo	Physics 2	75%	$945.00
Daniel O'Sullivan	University At Buffalo	Physics 2 Lab	75%	$295.00
Daniel O'Sullivan	University At Buffalo	Fees		$150.00

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves the above applications for Tuition Reimbursement totaling $3,790.08. These Reimbursements will be charged to account nos. 00120106-421026 and 00200106-421026.

ITEM NO. 3

CONSTRUCTION FUND AMENDMENT

WHEREAS: The Buffalo Sewer Authority desires to fund the Five-Year Capital Plan to continue its program of improving the sewer system; and

WHEREAS: There is $20,507,711 available from the 2023-2024 Fund Balance designated for Capital Projects; and

WHEREAS: The Executive Secretary recommends approval of these transfers.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves the transfer of funds from the Fund Balance Designated for Capital Projects to the Construction Fund Budget Amendment for 2024-2025 for the funding of the listed projects as designated by the Amendments.

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of January 8, 2025

BUFFALO SEWER AUTHORITY
CONSTRUCTION FUND BUDGET AMENDMENT #1
2024-2025 FISCAL YEAR

This Amendment to the Construction Fund utilizes funds from prior years to provide improvements to the infrastructure of the Buffalo Sewer Authority as designated by the Five-Year Capital Plan.

The funds will be added to the various appropriation accounts as listed below:

REVENUES & RESOURCES

FUND BALANCE DESIGNATED FOR CAPITAL PROJECTS FOR 2024-2025	$20,507,711
TOTAL REVENUE & RESOURCES	**$20,507,711**

APPROPRIATIONS

TREATMENT FACILITY:	
Program Management	$10,000,000
COLLECTION SYSTEM:	
Xylem Wet Weather Optimization	$1,500,000
Sewer Renovations	$9,007,711
TOTAL APPROPRIATIONS	**$20,507,711**

ITEM NO. 4

APPROVAL OF THE ANNUAL COMPREHENSIVE FINANCIAL REPORT, THE ANNUAL INVESTMENT REPORT, AND MISSION STATEMENT AND ANNUAL MEASUREMENT REPORT THE FOR THE FISCAL YEAR ENDED JUNE 30, 2024

WHEREAS: New York State Public Authorities Law requires the Annual Comprehensive Financial Report, the Annual Investment Report, and the Mission Statement and Annual Measurement Report of the Buffalo Sewer Authority to be approved by the Board; and

WHEREAS: The Annual Comprehensive Financial Report (Attachment A), the Annual Investment Report (Attachment B), and the Mission Statement and Annual Measurement Report (Attachment C) of the Buffalo Sewer Authority have been made available to your Honorable Body; and

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves and adopts the Annual Comprehensive Financial Report, the Annual Investment Report, and the Mission Statement and Annual Measurement Report for the fiscal year ended June 30, 2024.

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of January 8, 2025

ITEM NO. 5

REPORT ON BIDS RECEIVED - PURCHASE OF VARIOUS NEW & UNUSED STEEL PRODUCTS

WHEREAS: Formal bids were advertised and solicited for the purchase of the following various steel products:

1.) (30) Receiver Bottom Section w/slide; STANDARD; Dark Drawing #20557-RS-2

WHEREAS: The following bids were received and opened by the Buffalo Sewer Authority Purchase Department on December 13, 2024 at 2:00 PM

Vendor	Cost
Melius Welding	$49,500.00
EJ USA	NO RESPONSE

; and

WHEREAS: The Director of Sewer Maintenance and staff carefully reviewed the quotes received for each item needed and recommend the following awards, to the low bidder for each item:

Vendor	Items to award	Cost
Melius Welding	ALL	$49,500.00

; and

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the General Manager or his designee to purchase the above listed various steel products from the low bidder for all items listed from Melius Welding at a total cost of $49,500.00. These purchases will be charged to account no. 00660105-466269.

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of January 8, 2025

ITEM NO. 6

CHANGE ORDER NO.7– CONTRACT NO. 82000017

CONTRACTOR:	ORIGINAL CONTRACT COST	$2,262,000.00
Nova Site Company, LLC	PREVIOUS CHANGE ORDERS	$1,149,273.62
6 Lena Court	THIS CHANGE ORDER	($84,153.78)
West Seneca, NY 14224	ADJUSTED CONTRACT COST	$3,327,119.84

VENDOR# 9596 ACCOUNT# 02000507-490740

WORK: Smith St at Eagle St Real Time Control Project

DESCRIPTION OF CHANGE OR EXTRA WORK:

Item #1 Final Adjustment to Contract Amount

REASON FOR CHANGE OR EXTRA WORK:

Item #1 Adjusting contract amounts for actual quantities used.

COST OF CHANGE OR EXTRA WORK:

Item #1 ($84,153.78)

THE TOTAL COST OF THE CHANGE OR EXTRA WORK: ($84,153.78)

The Total DECREASE to the Contract as a result of this Change Order is $84,153.78

WHEREAS: This project was awarded a Water Quality Improvement Program grant by the New York State Department of Environmental Conservation with a minimum local match of 25% for Construction; and

WHEREAS: In Item No. 20, on April 1, 2020, the Board of the Buffalo Sewer Authority authorized the General Manager to enter into and execute a contract with Nova Site Company, LLC for the Smith St. at Eagle St. Real Time Control Project at a cost not to exceed $2,262,000.00; and

WHEREAS: Change Order No. 1 to Contract No. 82000017 was approved by the Board on October 20, 2021, with no increase in cost but an increase in the construction schedule of 233 days; and

WHEREAS: Change Order No. 2 to Contract No. 82000017 was approved by the Board on June 22, 2022, in the amount of $235,406.63 for additional work and materials; and

WHEREAS: Change Order No. 3 to Contract No. 82000017 was approved by the Board on September 28, 2022 in the amount of $0.00 for retention reduction from 5% to 1%; and

WHEREAS: Change Order No. 4 to Contract No. 82000017 was approved by the Board on May 24, 2023 in the amount of $81,724.18 for check valve installation and modifications; and

WHEREAS: Change Order No. 5 to Contract No. 82000017 was approved by the Board on September 28, 2023 in the amount of $452,607.28 for check valve installation, manhole modifications and sewer extension in Great Arrow; and

WHEREAS: Change Order No. 6 to Contract No. 82000017 was approved by the Board on June 26, 2024, in the amount of $379,535.53 for milling and overlay of Clinton and Smith Streets; and

WHEREAS: The Assistant Principal Engineer and staff and Arcadis have reviewed a Change Order No. 7 to Contract No. 82000017 as detailed above and recommend approval.

CONTRACT SUPPLEMENT CONDITIONS:

1. The contract completion date established in the original contract or as modified by previous contract supplements is hereby changed by 0 calendar days to set a new final completion date of January 8, 2025.

2. Any additional work to be performed under this contract supplement shall be carried out in compliance with the specifications included in the preceding description of changes involved with the supplemental contract drawings designated none and under the provisions of the original contract, including compliance with applicable equipment specifications, general specifications, and project specifications for the same type of work.

3. This contract supplement unless otherwise provided herein does not relieve the Contractor from strict compliance with the guarantee provisions of the original contract, particularly those pertaining to performance and operation of equipment.

4. The Contractor expressly agrees that he will place under coverage of his performance and payment bonds and Contractor's Insurance all work covered by this contract supplement. The Contractor will furnish to the Owner evidence of increased coverage of his performance and payment bonds for the accrued value of all contract supplements that exceeds the original contract price by twenty percent (20%).

5. The costs established under this contract supplement are acknowledged as including any and all costs associated with the work described herein and including any and all costs associated with any and all work performed or to be performed by the Contractor that may be affected in any manner by the work described herein.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves Change Order No. 7 to Contract No. 82000017 as written in the above Agenda Item, decreasing the contract cost in the amount of $84,153.78 making the adjusted contract cost $3,327,119.84.

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of January 8, 2025

ITEM NO. 7

CERTIFICATE OF ACCEPTANCE AND OCCUPANCY

PROJECT: Smith Street at Eagle Street Real Time Control Project
BID: $2,262,000.00
NET CHANGE: $1,065,119.84
FINAL CONTRACT AMOUNT: $3,327,119.84

CONTRACTOR:

Nova Site Company, LLC
6 Lena Court
West Seneca, NY 14224

WHEREAS: The Assistant Principal Engineer and staff have certified that the Contractor completed the work in accordance with the plans and specifications on January 8, 2025 and

WHEREAS In Item 6 the contract value was decreased by $84,153.78

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby finds and determines that:

a. The work to be performed under the terms of the Contract has been complete and is accepted;

b. The date of entrance and occupancy be fixed as of January 8, 2025;

c. The maintenance period commence on January 8, 2025;

d. The Board approved Change Order No. 7 on January 8, 2025 resulting in a net increase of $1,065,119.84, thereby making the adjusted contract cost $3,327,119.84.

MOTION TO APPROVE

MADE BY MRS. PERTUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of January 8, 2025

ITEM NO. 8

AUTHORIZATION TO RENEW A PROFESSIONAL SERVICES AGREEMENT WITH THE RESEARCH FOUNDATION FOR THE STATE UNIVERSITY OF NEW YORK

WHEREAS: The Buffalo Sewer Authority (BSA) has negotiated with the United States Environmental Protection Agency, the United States Department of Justice and the New York State Department of Environmental Conservation to address sewer system improvements to comply with the Federal Clean Water Act through the Combined Sewer Overflow Long-Term Control Plan (LTCP) which was approved by the agencies on March 18, 2014; and

WHEREAS: The State University of New York at (SUNY) at Buffalo, also known as SUNY at Buffalo and/or University at Buffalo (UB) Research and Education in eNergy, Environment and Water (RENEW) is a university-wide and interdisciplinary program created in 2014 with a focus on complex urban energy and environmental issues; and

WHEREAS: The UB RENEW faculty team includes national experts in the field of model calibration, environmental engineering and water systems modeling industry leading "super-computing" facilities that enable the expeditious processing of complex, data rich modeling programs and testing facilities for a large variety of water-borne pathogens and contaminants; and

WHEREAS: The Authority has an interest in partnering with UB RENEW to update the environmental water quality model to better quantify the impacts of LTCP impacts to date, pollutant loading from upstream sources, and emerging water quality and environmental hydrodynamic issues; and

WHEREAS: The Research Foundation for the SUNY serves as the contracting and fiscal agent for UB RENEW; and

WHEREAS: Upon request, UB RENEW submitted a multi-year renewable proposal for developing and implementing a water quality sampling, monitoring, and modeling program for the Buffalo and Niagara Rivers, Scajaquada Creek, and the Block Rock Canal for $268,000.00 for the 2023 calendar year, $412,000.00 for the 2024 calendar year, and $466,000.00 for the 2025 calendar year; and

WHEREAS: Whereas for continuation of this work as previously approved by the Board of the Buffalo Sewer Authority on December 14, 2022, into 2025, an authorization of $466,000.00 for the 2025 calendar year is required; and

WHEREAS: The Assistant Principal Engineer and staff have reviewed this proposal submitted by UB RENEW and recommend approving renewal for the 2025 calendar year upon Board authorization at costs not to exceed those provided above; and

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the General Manager or his designee to renew an agreement with UB RENEW, at a cost not to exceed $466,000.00 to complete the professional engineering services defined in the letter proposal dated November 30, 2022, for the 2025 calendar year. The cost of this contract will be funded from account no. 02000561-432004.

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of January 8, 2025

ITEM NO. 9

DECLARATION OF LEAD AGENCY FOR STATE ENVIRONMENTAL QUALITY REVIEW FOR CSO-053 EDISON AND MARTHA OLS PROJECT

WHEREAS: The Buffalo Sewer Authority ("BSA") proposes to modify BSA's sewer collection system through an offline storage facility (CSO053_5.2 Edison Martha OLS) located along the East side of Roosevelt Park, to control combined sewer overflow (CSO) discharges to the Scajaquada Creek ("the Project"); and

WHEREAS: The Project area is located in the City of Buffalo's University District; and

WHEREAS: The Project will reduce both the number of CSO activation events to Scajaquada Creek and the total combined sewage discharge to Scajaquada Creek, the Black Rock Canal and Niagara River; and

WHEREAS: In accordance with Part 617 of the implementing regulations pertaining to Article 9 (State Environmental Quality Review Act – "SEQRA") of the Environmental Conservation Law, the Assistant Principal Engineer and TY Lin/ Greeley and Hansen, as Consulting Engineer have determined that the above project will be treated as a Type I Action; and

WHEREAS: Part 1 of the SEQRA Long Environmental Assessment Form (EAF) has been completed (See Attachment D); and

WHEREAS: The Buffalo Sewer Authority has identified Involved Agencies for the Project; NOW

NOW THEREFORE
BE IT RESOLVED: The Board of the Buffalo Sewer Authority hereby announces its intent that the BSA will serve as Lead Agency to conduct an environmental review of the Project in accordance with SEQRA and will notify the Involved Agencies of BSA's intention to act as Lead Agency.

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of January 8, 2025

ITEM NO. 9-1

AUTHORIZATION TO ENTER INTO A MEMORANDUM OF UNDERSTANDING WITH THE CITY OF BUFFALO REGARDING THE CITY OF BUFFALO'S ALLOCATION OF AMERICAN RESCUE PLAN FUNDS TO THE BUFFALO SEWER AUTHORITY AS A SUBAWARDEE

WHEREAS: The City of Buffalo American Rescue Plan (ARP) Spending Plan was approved by the Buffalo Common Council on August 26, 2021; and

WHEREAS: Pursuant to Item No. 23-1325 C.C.P. July 27, 2023, the Buffalo Common Council authorized the approval of ARP Spending Plan Amendment No. 4 which reallocated funding from various objectives to provide for the distribution of $850,000 in Premium Pay for Buffalo Sewer Authority Employees; and

WHEREAS: The Buffalo Sewer Authority has worked with and cooperated with the City of Buffalo to apply and obligate the use of such ARP funds consistent with the allocations and programs approved by the Buffalo Common Council; and

WHEREAS: The City of Buffalo and the Buffalo Sewer Authority desire to enter into a Memorandum of Understanding to memorialize the obligations of the City of Buffalo's Subaward to the Buffalo Sewer Authority as set forth in the Spending Plan Amendment No. 4; and

WHEREAS: Due to the imminent nature and impending December 31, 2024 deadline, Members of the Buffalo Sewer Authority Board were individually polled on December 30, 2024, and authorized the General Manager to execute the Memorandum of Understanding with the City of Buffalo; and

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority ratifies the General Manager's action in executing the Memorandum of Understanding between the City of Buffalo and the Buffalo Sewer Authority regarding the City of Buffalo's Allocation of American Rescue Plan Funds to the Buffalo Sewer Authority as a Subawardee.

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of January 8, 2025

ITEM NO. 10

ADJOURNMENT OF MEETING

MOTION TO ADJOURN

MADE BY MR. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of January 8, 2025

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: CSO053_5.2 Edison Martha OLS		
Project Location (describe, and attach a general location map): West of the Charter School of Inquiry at 404 Edison Ave, Buffalo, NY 14215		
Brief Description of Proposed Action (include purpose or need): This project consists of constructing a 2.61 million gallon (MG) buried concrete tank, associated diversion structure, and tank inlet and outlet sewers near the northwest corner of Edison Avenue and Kensington Expressway for the purpose of relieving the Edison Avenue Storm Relief Sewer, the downstream Kensington Expressway Sewer at Edison Avenue and the Scajaquada Tunnel Interceptor during wet weather events to reduce CSO discharges to the Scajaquada Tunnel from SPP340. The tank will be a nominal 130 feet wide by 336 feet long and be constructed on land in what is the Roosevelt Playground. Flows in excess of the reported 0.4 million gallon per day (mgd) dry weather flow in the Edison Avenue Storm Relief Sewer will flow over a 20-foot-long weir at the proposed Diversion Structure to be constructed around the existing sewer in the Edison Avenue Right of way, and be conveyed via a 48-inch diameter Reinforced Concrete Pipe (RCP) to the tank. The storage tank will dewater via gravity through a 24-inch RCP pipe to the manhole where the Edison Avenue Storm Relief Sewer joins the Kensington Expressway Sewer at Edison Avenue, when there is available capacity in the downstream sewer. The outlet gate will be controlled by the level in the Hazelwood in-line-storage (ILS) facility downstream, whereas the inlet gate will be controlled by the tank level in the Edison Martha tank itself.		
Name of Applicant/Sponsor: Buffalo Sewer Authority	Telephone: 716-851-5664 Ext. 4203 E-Mail: rnogle@buffalosewer.org	
Address: 5 Niagara Square # 1038		
City/PO: Buffalo	State: NY	Zip Code: 14202
Project Contact (if not same as sponsor; give name and title/role): Rosaleen B. Nogle, PE, BCEE, PMP	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor):	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Counsel, Town Board, or Village Board of Trustees ☑Yes ☐No	City of Buffalo Common Council University District	
b. City, Town or Village Planning Board or Commission ☑Yes ☐No	City of Buffalo Office of Strategic Planning	
c. City, Town or Village Zoning Board of Appeals ☐Yes ☑No		
d. Other local agencies ☑Yes ☐No	City of Buffalo Department of Public Works, Parks & Streets	
e. County agencies ☑Yes ☐No	Erie County Department of Health	
f. Regional agencies ☐Yes ☑No		
g. State agencies ☑Yes ☐No	State Historic Preservation Office/Cultural Resources Determination	
h. Federal agencies ☑Yes ☐No	US Fish and Wildlife Service, Section 7	

i. Coastal Resources.

i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? ☐Yes ☑No

ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? ☐Yes ☑No

iii. Is the project site within a Coastal Erosion Hazard Area? ☐Yes ☑No

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? ☐Yes ☑No

- **If Yes,** complete sections C, F and G.
- **If No,** proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? ☐Yes ☑No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? ☐Yes ☑No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) ☑Yes ☐No

If Yes, identify the plan(s):

NYS Heritage Areas:West Erie Canal Corridor

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? ☐Yes ☑No

If Yes, identify the plan(s):

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☑ Yes ☐ No
If Yes, what is the zoning classification(s) including any applicable overlay district?
D-E (Educational Campus)

b. Is the use permitted or allowed by a special or conditional use permit? ☐ Yes ☑ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☑ No
If Yes,
i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? Buffalo City School District

b. What police or other public protection forces serve the project site?
Buffalo Police

c. Which fire protection and emergency medical services serve the project site?
Buffalo Fire Department

d. What parks serve the project site?
Roosevelt Park

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Municipal - sewer work

b. a. Total acreage of the site of the proposed action? 2 acres
b. Total acreage to be physically disturbed? 1.5 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 0 acres

c. Is the proposed action an expansion of an existing project or use? ☐ Yes ☑ No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☑ No
If Yes,
i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)
ii. Is a cluster/conservation layout proposed? ☐ Yes ☑ No
iii. Number of lots proposed? _____
iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will the proposed action be constructed in multiple phases? ☐ Yes ☑ No
i. If No, anticipated period of construction: 72 months
ii. If Yes:
- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____year
- Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

f. Does the project include new residential uses? ☐ Yes ☑ No

If Yes, show numbers of units proposed.

	One Family	Two Family	Three Family	Multiple Family (four or more)
Initial Phase				
At completion of all phases				

g. Does the proposed action include new non-residential construction (including expansions)? ☐ Yes ☑ No

If Yes,

i. Total number of structures _____

ii. Dimensions (in feet) of largest proposed structure: _____height; _____width; and _____ length

iii. Approximate extent of building space to be heated or cooled: _____ square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☑ Yes ☐ No

If Yes,

i. Purpose of the impoundment: Combined sewage overflow in the case of wet weather events

ii. If a water impoundment, the principal source of the water: ☐ Ground water ☐ Surface water streams ☑ Other specify: Combined sewage

iii. If other than water, identify the type of impounded/contained liquids and their source.

iv. Approximate size of the proposed impoundment. Volume: 2.61 (MG) million gallons; surface area: N/A acres

v. Dimensions of the proposed dam or impounding structure: _____ height; 130x336' length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete):

Concrete storage basin

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite) ☑ Yes ☐ No

If Yes:

i .What is the purpose of the excavation or dredging? Municipal Sewer Work - See Project Scope

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): 46,000 cubic yards
- Over what duration of time? 1-2 years

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.

Any excavated material not used as backfill for this site will be properly characterized and disposed of

iv. Will there be onsite dewatering or processing of excavated materials? ☐ Yes ☑ No

If yes, describe. _____

v. What is the total area to be dredged or excavated? 1.25 acres

vi. What is the maximum area to be worked at any one time? 1.25 acres

vii. What would be the maximum depth of excavation or dredging? 27 feet

viii. Will the excavation require blasting? ☑ Yes ☐ No

ix. Summarize site reclamation goals and plan:

The primary goal of site reclamation is to restore the surface area above the buried tank and surrounding infrastructure to its pre-construction condition, with improvements made as needed for site stabilization, landscaping, and drainage.

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? ☐ Yes ☑ No

If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

_____

_____

_____

_____

iii. Will the proposed action cause or result in disturbance to bottom sediments? ☐ Yes ☑ No

If Yes, describe: _____

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? ☐ Yes ☑ No

If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion: _____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____

_____

- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

_____

c. Will the proposed action use, or create a new demand for water? ☑ Yes ☐ No

If Yes:

i. Total anticipated water usage/demand per day: 4600 gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☑ Yes ☐ No

If Yes:

- Name of district or service area: _____
- Does the existing public water supply have capacity to serve the proposal? ☐ Yes ☐ No
- Is the project site in the existing district? ☐ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☐ No
- Do existing lines serve the project site? ☐ Yes ☐ No

iii. Will line extension within an existing district be necessary to supply the project? ☐ Yes ☑ No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

_____

- Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐ Yes ☑ No

If, Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

_____

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☐ Yes ☑ No

If Yes:

i. Total anticipated liquid waste generation per day: _____ gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

_____

_____

iii. Will the proposed action use any existing public wastewater treatment facilities? ☑ Yes ☐ No

If Yes:

- Name of wastewater treatment plant to be used: Bird Island Waste Water Treatment Plant
- Name of district: _____
- Does the existing wastewater treatment plant have capacity to serve the project? ☑ Yes ☐ No
- Is the project site in the existing district? ☑ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☑ No

- Do existing sewer lines serve the project site? ☑ Yes ☐ No
- Will a line extension within an existing district be necessary to serve the project? ☐ Yes ☑ No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

_____

_____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? ☐ Yes ☑ No

If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

_____

_____

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

_____

_____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? ☐ Yes ☑ No

If Yes:

i. How much impervious surface will the project create in relation to total size of project parcel?

_____ Square feet or _____ acres (impervious surface)

_____ Square feet or _____ acres (parcel size)

ii. Describe types of new point sources. _____

_____

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

_____

_____

- If to surface waters, identify receiving water bodies or wetlands: _____

_____

_____

- Will stormwater runoff flow to adjacent properties? ☐ Yes ☑ No

iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? ☑ Yes ☐ No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? ☐ Yes ☑ No

If Yes, identify:

i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

_____

ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

_____

iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

_____

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? ☐ Yes ☑ No

If Yes:

i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) ☐ Yes ☑ No

ii. In addition to emissions as calculated in the application, the project will generate:

- _____Tons/year (short tons) of Carbon Dioxide (CO_2)
- _____Tons/year (short tons) of Nitrous Oxide (N_2O)
- _____Tons/year (short tons) of Perfluorocarbons (PFCs)
- _____Tons/year (short tons) of Sulfur Hexafluoride (SF_6)
- _____Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)
- _____Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? ☐Yes ☑No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

_____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? ☐Yes ☑No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):

_____

_____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? ☐Yes ☑No

If Yes:

i. When is the peak traffic expected (Check all that apply): ☐ Morning ☐ Evening ☐Weekend ☐ Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____

_____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? ☐Yes ☑No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe:

_____

vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? ☑Yes ☐No

vii Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? ☐Yes ☑No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? ☐Yes ☑No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? ☐Yes ☑No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____

_____

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other):

_____

iii. Will the proposed action require a new, or an upgrade, to an existing substation? ☐Yes ☑No

l. Hours of operation. Answer all items which apply.

i. During Construction:

- Monday - Friday: 8 AM - 4 PM
- Saturday: _____
- Sunday: _____
- Holidays: _____

ii. During Operations:

- Monday - Friday: _____
- Saturday: _____
- Sunday: _____
- Holidays: _____

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? ☐ Yes ☑ No

If yes:

i. Provide details including sources, time of day and duration:

_____

_____

ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? ☐ Yes ☑ No

Describe: _____

_____

n. Will the proposed action have outdoor lighting? ☐ Yes ☑ No

If yes:

i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

_____

_____

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? ☐ Yes ☑ No

Describe: _____

_____

o. Does the proposed action have the potential to produce odors for more than one hour per day? ☑ Yes ☐ No

If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____

Odor may be expected based on the contents being stored. The basin will have the potential to emit odors from the above grade hatches or manholes. The basin will activate approximately 45 times a year. The outlet valve will be closed to fully restrict flow 30 of the 45 times that the basin is activated. The total duration on average for each of the times the valve is closed would be 15 hours. The Charter School for inquiry is approximately 80 feet to the east of the nearest above grade feature in the preliminary design. The Final Designer will review the design aspects to determine if/what odor control is required.

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? ☐ Yes ☑ No

If Yes:

i. Product(s) to be stored _____

ii. Volume(s) _____ per unit time _____ (e.g., month, year)

iii. Generally, describe the proposed storage facilities:_____

_____

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ☐ Yes ☑ No

If Yes:

i. Describe proposed treatment(s):

_____

_____

_____

_____

ii. Will the proposed action use Integrated Pest Management Practices? ☐ Yes ☑ No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? ☐ Yes ☑ No

If Yes:

i. Describe any solid waste(s) to be generated during construction or operation of the facility:

- Construction: _____ tons per _____ (unit of time)
- Operation : _____ tons per _____ (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction: _____

  _____
- Operation: _____

  _____

iii. Proposed disposal methods/facilities for solid waste generated on-site:

- Construction: _____

  _____
- Operation: _____

  _____

s. Does the proposed action include construction or modification of a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

_____

_____

ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

_____

_____

iii. Specify amount to be handled or generated _____ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

_____

_____

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☐ Yes ☑ No

If Yes: provide name and location of facility: _____

_____

If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

_____

_____

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site.

☑ Urban ☐ Industrial ☐ Commercial ☑ Residential (suburban) ☐ Rural (non-farm)

☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other (specify): _____

ii. If mix of uses, generally describe:

_____

_____

b. Land uses and covertypes on the project site.

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	2	2	0
• Forested			
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)			
• Agricultural (includes active orchards, field, greenhouse etc.)			
• Surface water features (lakes, ponds, streams, rivers, etc.)			
• Wetlands (freshwater or tidal)			
• Non-vegetated (bare rock, earth or fill)			
• Other Describe: _____ _____			

c. Is the project site presently used by members of the community for public recreation? ☑ Yes ☐ No

i. If Yes: explain: Site is eastern portion of Roosevelt Park. Park will be restored after construction

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? ☑ Yes ☐ No

If Yes,

i. Identify Facilities:

Charter School of Inquiry

e. Does the project site contain an existing dam? ☐ Yes ☑ No

If Yes:

i. Dimensions of the dam and impoundment:

- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____

iii. Provide date and summarize results of last inspection:

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Has the facility been formally closed? ☐ Yes ☑ No

- If yes, cite sources/documentation: _____

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

iii. Describe any development constraints due to the prior solid waste activities: _____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? ☐ Yes ☑ No

If Yes:

i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: ☐ Yes ☑ No

☐ Yes – Spills Incidents database — Provide DEC ID number(s): _____

☐ Yes – Environmental Site Remediation database — Provide DEC ID number(s): _____

☐ Neither database

ii. If site has been subject of RCRA corrective activities, describe control measures:_____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? ☑ Yes ☐ No

If yes, provide DEC ID number(s): 915156

iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

The site is going through active remediation. See environmental memo

v. Is the project site subject to an institutional control limiting property uses? ☐ Yes ☑ No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? ☐ Yes ☑ No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? 7-10 feet

b. Are there bedrock outcroppings on the project site? ☐ Yes ☑ No
If Yes, what proportion of the site is comprised of bedrock outcroppings? _____%

c. Predominant soil type(s) present on project site: Urban land-Lima complex 100 %
_____ _____%
_____ _____%

d. What is the average depth to the water table on the project site? Average: 1.5-2 feet

e. Drainage status of project site soils:
☐ Well Drained: _____% of site
☑ Moderately Well Drained: 100 % of site
☐ Poorly Drained _____% of site

f. Approximate proportion of proposed action site with slopes:
☑ 0-10%: 100 % of site
☐ 10-15%: _____% of site
☐ 15% or greater: _____% of site

g. Are there any unique geologic features on the project site? ☐ Yes ☑ No
If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☐ Yes ☑ No

ii. Do any wetlands or other waterbodies adjoin the project site? ☐ Yes ☑ No

If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☐ Yes ☑ No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name _____ Classification _____
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name _____ Approximate Size _____
- Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☐ Yes ☑ No

If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? ☐ Yes ☑ No

j. Is the project site in the 100-year Floodplain? ☐ Yes ☑ No

k. Is the project site in the 500-year Floodplain? ☐ Yes ☑ No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☐ Yes ☑ No
If Yes:

i. Name of aquifer: _____

m. Identify the predominant wildlife species that occupy or use the project site: _____

_____ _____ _____

_____ _____ _____

n. Does the project site contain a designated significant natural community? ☐ Yes ☑ No

If Yes:

i. Describe the habitat/community (composition, function, and basis for designation): _____

_____

ii. Source(s) of description or evaluation: _____

iii. Extent of community/habitat:

- Currently: _____ acres
- Following completion of project as proposed: _____ acres
- Gain or loss (indicate + or -): _____ acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☐ Yes ☑ No

If Yes:

i. Species and listing (endangered or threatened): _____

_____

_____

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☐ Yes ☑ No

If Yes:

i. Species and listing: _____

_____

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☐ Yes ☑ No

If yes, give a brief description of how the proposed action may affect that use: _____

_____

E.3. Designated Public Resources On or Near Project Site

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☐ Yes ☑ No

If Yes, provide county plus district name/number: _____

b. Are agricultural lands consisting of highly productive soils present? ☐ Yes ☑ No

i. If Yes: acreage(s) on project site? _____

ii. Source(s) of soil rating(s): _____

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐ Yes ☑ No

If Yes:

i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature

ii. Provide brief description of landmark, including values behind designation and approximate size/extent: _____

_____

_____

d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? ☐ Yes ☑ No

If Yes:

i. CEA name: _____

ii. Basis for designation: _____

iii. Designating agency and date: _____

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? ☐ Yes ☑ No

If Yes:

i. Nature of historic/archaeological resource: ☐ Archaeological Site ☐ Historic Building or District

ii. Name: _____

iii. Brief description of attributes on which listing is based:

_____

f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? ☐ Yes ☑ No

g. Have additional archaeological or historic site(s) or resources been identified on the project site? ☐ Yes ☑ No

If Yes:

i. Describe possible resource(s): _____

ii. Basis for identification: _____

h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? ☐ Yes ☑ No

If Yes:

i. Identify resource: _____

ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____

iii. Distance between project and resource: _____ miles.

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? ☐ Yes ☑ No

If Yes:

i. Identify the name of the river and its designation: _____

ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? ☐ Yes ☐ No

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

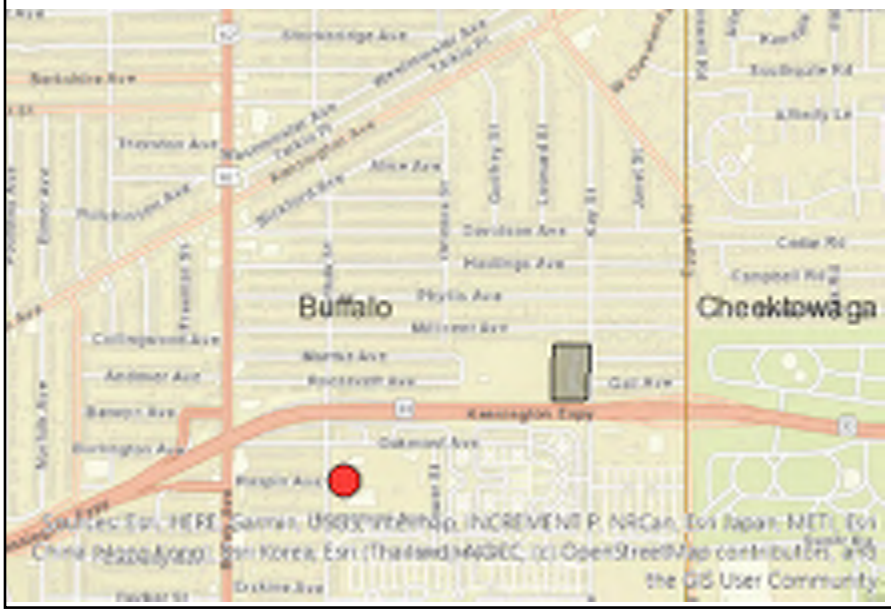
Applicant/Sponsor Name Rosaleen Nogle, PE Date _____

Signature _____ Title Principal Sanitary Engineer

PRINT FORM

EAF Mapper Summary Report

Thursday, May 16, 2024 9:18 AM

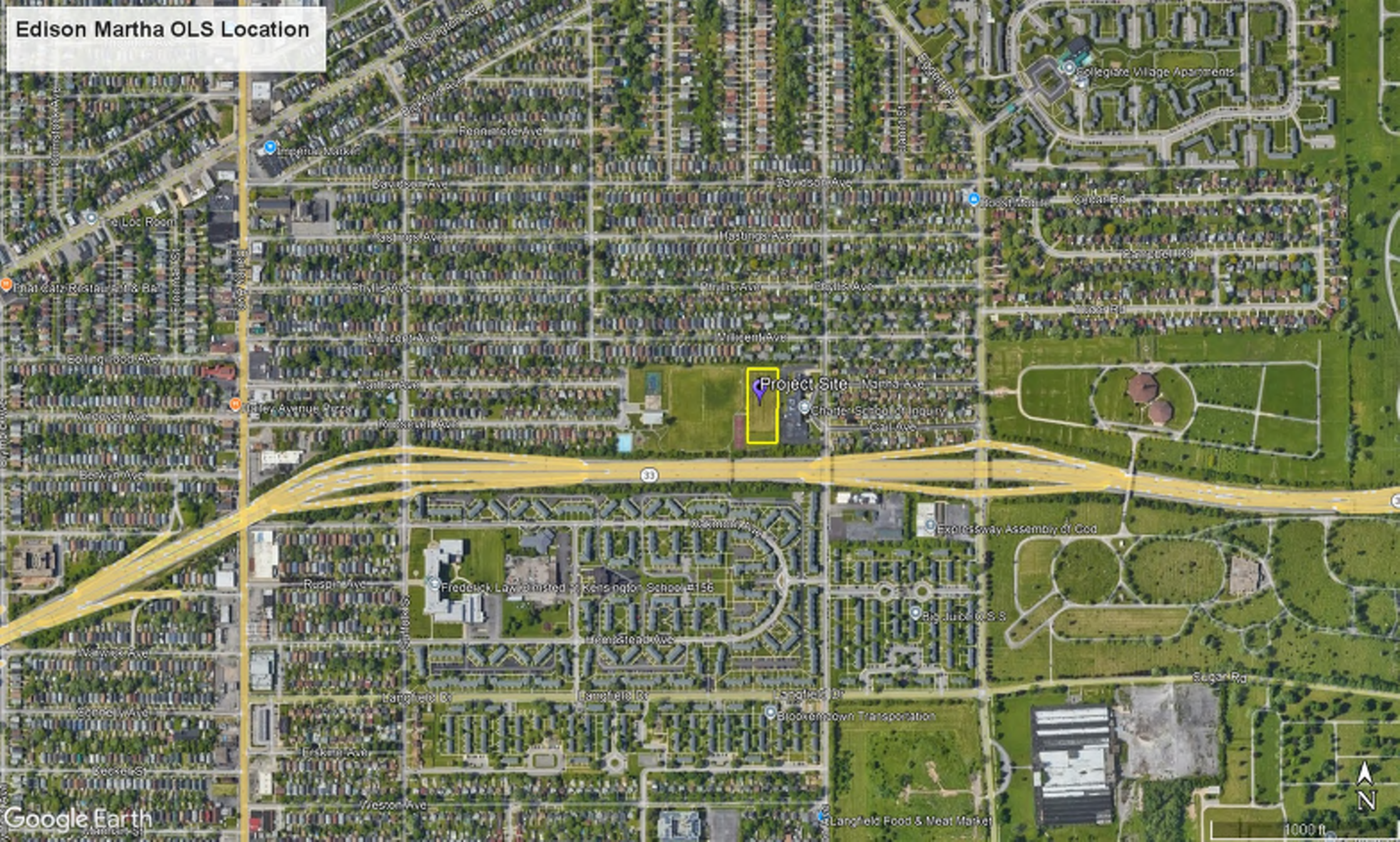


Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.

B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Yes - Digital mapping data are not available for all Special Planning Districts. Refer to EAF Workbook.
C.2.b. [Special Planning District - Name]	NYS Heritage Areas:West Erie Canal Corridor
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	Yes
E.1.h.iii [Within 2,000' of DEC Remediation Site - DEC ID]	915156
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	No
E.2.h.ii [Surface Water Features]	No
E.2.h.iii [Surface Water Features]	No
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	No
E.2.k. [500 Year Floodplain]	No
E.2.l. [Aquifers]	No
E.2.n. [Natural Communities]	No

E.2.o. [Endangered or Threatened Species]	No
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.3.f. [Archeological Sites]	No
E.3.i. [Designated River Corridor]	No

Edison Martha OLS Location



Involved/Interested Agencies

City of Buffalo Common Council University District
Rasheed Wyatt
rwyatt@buffalony.gov

City of Buffalo Department of Public Works, Parks & Streets – Parks
Andrew Rabb, Deputy Commissioner for Parks and Recreation (via email)
arabb@city-buffalo.com

City of Buffalo Department of Public Works, Parks & Streets
Nolan Skipper, City Engineer (via email)
nskipper@buffalony.gov

New York State Department of State
Coastal Management Program
99 Washington Avenue
Albany, NY 12231-0001

New York State Department of Transportation
Casey Gordon, Transportation Analyst
Planning and Program Management
dot.sm.r05.SEQR@dot.ny.gov

New York State Department of Transportation, Region 5New York State Department of Environmental Conservation
Michelle Woznick, Deputy Permit Administrator, Division of Environmental Permits
DEP.R9@dec.ny.gov

New York State Department of Environmental Conservation
City of Buffalo Office of Strategic Planning
Brendan R. Mehaffy, Executive Director (via email)
bmehaffy@buffalony.gov

City of Buffalo Water Authority
Fouad Arab
farab@buffalony.gov
281 Exchange St, Buffalo, NY 14204

Erie County Department of Health
Jack Tomani
John.tomani@erie.gov
95 Franklin Street
Buffalo, NY 14202

Buffalo Environmental Management Commission
Jason Paananen

jpaananen@buffalony.gov
920 City Hall
65 Niagara Square
Buffalo, NY 14202

New York State Historic Preservation Office (consultation completed online)
1 Delaware Avenue North, Cohoes, NY 12047

U.S. Fish and Wildlife Service (consultation completed online)
1849 C Street, NW
Washington, DC 20240

MINUTES OF THE REGULAR MEETING

OF THE

BUFFALO SEWER AUTHORITY

February 19, 2025

BUFFALO SEWER AUTHORITY

REGULAR MEETING
February 19, 2025
9:00 A.M.

Buffalo City Hall, 65 Niagara Square Room 1038
Teleconference +1 917- 933-2166, ID #824 695 904#

ITEM NO.	CONTENTS	PAGE NO.
	Roll Call	
1	Motion to Adopt the Minutes of January 8, 2025	59175
2	Approval of Consent Agenda	59176-91
	A. Informative: Temporary Investments	
	B. Informative: Reallocation of Funds	
	C. Informative: Report on the Condition of the Liability and Casualty Reserve Fund	
	D. Informative: Report on Fiscal Year 2024-2025 Rates and Charges for Sewer Services	
	E. Claim Against Liability and Casualty Reserve Fund	
	F. Request for Leave of Absence	
	G. Request for Leave of Absence	
	H. Amendment to the Schedule of Job Classification Plan	
	I. Amendment to the Schedule of Job Classification Plan	
	J. Confirmation of Appointments	
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3	Authorization for Change Order to Blanket Purchase Order No. 22500090	59192-94

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5	Authorization to Purchase a Vehicle Under the Onondaga Bid 106-19 2025	59198
6	Authorization to Purchase Dump Body Installation Under the Onondaga Bid 106-19 2025	59199
8	Report On Bids Received - Cornelius Creek CSO Backwater Gate Flooding Mitigation Project	59200-201
8	Change Order No. Cr-B-02, Bird Island Wastewater Treatment Facility Secondary System Rehabilitation and Upgrades, Contract B – Cleaning, Contract No. 82000050	59202-203
9		
11	Adjournment of Meeting	59204

ATTACHMENTS

Attachment A: Buffalo Sewer Authority Report on Fiscal Year 2024-25 Rates and Charges for Sewer Services

CALL OF THE ROLL

Present:	Herbert Bellamy, Jr.	Chairman of Board
	Christopher Roosevelt	Vice Chairman of the Board
	Eleanor Petrucci	Secretary of the Board
	Charles Riley	Executive Secretary
	Cheryl Colston	General Counsel
	Adam Sassone	Secretary to General Manager
	Alexander Emmerson	Treatment Plant Superintendent
	Rosaleen Nogle, P.E.	Assistant Principal Engineer
	Joel Renzoni	Director of Sewer Maintenance
	Timothy Blake	Senior Instrument Technician
	LaToya Cunningham	Special Assistant
	Desiree Briggs	Preventive Maintenance Coordinator
	Regina Harris	Senior Engineer
	Dax Blake	Arcadis
	Nadia Mugisha, P.E.	Arcadis
	Walter Walker, P.E.	TY-Lin
	Laura Surdej	Erie County Department of Sewerage
	Carol Burns	Executive Assistant to Comptroller

The meeting was called to order at 9:36 AM. A quorum was present.

ITEM NO. 1

Motion to Adopt the Minutes of the Meeting of January 8, 2025

MOTION TO ADOPT

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

ITEM NO. 2

APPROVAL OF CONSENT AGENDA

CONTENTS

A. Informative: Temporary Investments

B. Informative: Reallocation of Funds

C. Informative: Report on the Condition of The Liability and Casualty Reserve Fund

D. Informative: Report on Fiscal Year 2024-2025 Rates and Charges for Sewer Services

E. Claim Against Liability and Casualty Reserve Fund

F. Request for Leave of Absence

G. Request for Leave of Absence

H. Amendment to the Schedule of Job Classification Plan

I. Amendment to the Schedule of Job Classification Plan

J. Confirmation of Appointments

K. Tuition Reimbursement

L. Tuition Assistance

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of February 19, 2025

2-A

INFORMATIVE: TEMPORARY INVESTMENTS (CERTIFICATES OF DEPOSIT AND TREASURY BILLS)

As of December 31st, 2024

ISSUE DATE	MATURITY DATE	TOTAL DAYS	AMOUNT	BANK	RATE	INTEREST AMOUNT
			CONSTRUCTION/CAPITAL IMPROVEMENT FUND			
31-Jul-12	**MONEY MARKET**		$6,189,037.36	Key	0.01%	Public NOW
19-Dec-24	3-Jan-25	15	$8,999,148.63	Key Banc Capital	4.22%	$15,851.37
			$15,188,185.99			
			LIABILITY AND CASUALTY RESERVE FUND			
31-Jul-12	**MONEY MARKET**		$243,096.47	Key	0.01%	Public NOW
17-Oct-24	16-Jan-25	91	$771,166.93	Key Banc Capital	4.48%	$8,833.07
			$1,014,263.40			
			OPERATING FUND			
31-Jul-12	**SUPER NOW**		**$3,472,171.23**	Key	0.01%	Public NOW
			TRUST & AGENCY FUND			
31-Jul-12	**SUPER NOW**		**$28,498.35**	Key	0.01%	Public NOW
			SURPLUS FUND			
			$623.61	Wilmington U.S. Treasury	4.79%	
21-Nov-24	15-May-25	175	$10,004,262.50	Key Banc Capital	4.50%	$223,737.50
			$10,004,886.11			
			NET REVENUE FUND			
			$228,969.99	Wilmington U.S. Treasury		
4-Oct-25	28-Jan-25	116	$7,499,639.87	Key Banc Capital	4.38%	$107,360.13
26-Nov-24	28-Jan-25	63	$7,499,174.78	Key Banc Capital	4.37%	$57,825.22
26-Dec-24	28-Jan-25	33	$9,999,629.75	Key Banc Capital	4.17%	$38,370.25
31-Oct-24	25-Feb-25	117	$7,998,401.65	M&T Securities	4.42%	$116,598.35
			$33,225,816.04			

BSA 2021 EIB FUND

			$324,902.08	Cash	0.00%	
14-Nov-24	8-May-25	175	$32,615,964.44	Key Banc Capital	4.26%	$690,035.56
12-Dec-24	5-Jun-25	175	$9,982,955.78	M&T Securities	4.16%	$206,044.22
19-Dec-24	5-Jun-25	168	$10,101,004.00	M&T Securities	4.14%	$198,996.00
			$53,024,826.30			

DEBT RESERVE FUND

				Series J		
02-Jul-14	13-Nov-33	7076	**$278,395.02**	UST State/Local Govt	2.70%	
				Series K		
02-Jul-14	15-Feb-33	6803	**$194,245.26**	UST State/Local Govt	2.70%	
				Series L		
12-Nov-15	1-Oct-35	7263	**$689,547.00**	UST State/Local Govt	2.44%	
				Series M		
27-Jun-14	1-May-44	10901	**$585,063.94**	UST State/Local Govt	2.70%	
				Series N		
15-Nov-12	15-Apr-32	7091	**$2,167,157.00**	UST State/Local Govt	2.42%	
			EFC 2021			
			$561.78	Wilmington U.S. Treasury	4.79%	
22-Aug-24	13-Feb-25	175	$349,820.69	Key Banc Capital	4.70%	$8,179.31
			$350,382.47			

DSF PRIN &INT

$0.01 Wilmington Fund

DSF 2021 EIB

$731,325.95 Wilmington Fund 4.79%

RECEIVE & FILE

Board Meeting of February 19th, 2025

2-B

INFORMATIVE: REALLOCATION OF FUNDS

The following budgetary transfers have been made to cover unforeseen shortages. These transfers do not change the total amount of the Buffalo Sewer Authority's operating budget.

Wastewater Treatment Plant

12/17/2024	00380103 INCIN Gas	-$2,500.00	00390103 HAMBURG Drain Float	$2,500.00
12/20/2024	00380107 INCIN Machinery & Equipment	-$25,000.00	00380106 INCIN Maintenance Contract	$25,000.00
01/23/2025	00200105 PLAN Clothing Safety	-$7,162.24	00200107 PLAN Maintenance Contract	$7,162.24

Sewer Maintenance

12/20/2024	00650106 SWRM, ED Licenses	-$125,000.00	00650107 SWRM Special Structures	$125,00.00
01/23/2025	00690106 AUTO Repairs	-$1,500.00	00690105 AUTO Repairs	$1,500.00

Financial Contingency

12/18/2024	00800183 Financial Contingency	-$600.00	00110106 ADMIN Lease of Vehicles	$600.00
01/27/2025	00800183 Financial Contingency	-$2,000.00	00110105 ADMIN Office Supplies	$2,000.00
01/27/2025	00800183 Financial Contingency	-$4,000.00	00200107 PLAN Office Equipment	$4,000.00
01/30/2025	00800183 Financial Contingency	-$1,000.00	00110106 ADMIN ED Licenses	$1,000.00

RECEIVE & FILE

Board Meeting of February 19, 2025

2-C

INFORMATIVE: REPORT ON THE CONDITION OF THE LIABILITY AND CASUALTY RESERVE FUND

The Resolution that created the Liability and Casualty Reserve Fund provides that:

"The General Manager shall regularly and not less than semi-annually render to the Board a detailed report of the operation and condition of the Liability and Casualty Reserve Fund."

Fund Balance as of June 30, 2024	$1,008,441.96
Interest Earnings	$20,858.22
Claims Paid	$12,599.38
Transfer from Operating Fund	$0.00
Fund Balance as of June 30, 2024	$1,041,899.56

The Resolution that created the Liability and Casualty Reserve Fund provides that:

"When the amount of the Liability and Casualty Reserve Fund reaches the sum of $1,000,000.00, no further additions shall be made thereto until the Fund has been reduced below $1,000,000.00".

During the period of July 1, 2024 – December 31, 2024 the Authority settled two claims, resulting in cash payments from the Buffalo Sewer Authority in the amount of $12,599.38. No claims were denied in this time period.

Total Active Claims Pending as of December 31, 2024

Bodily Injury	15
Property Damage	7
Motor Vehicle	0
Auto B.I. & P.D	4
Other Liability	2
Total	28

RECEIVE & FILE

Board Meeting of February 19, 2025

2-D

INFORMATIVE: REPORT ON FISCAL YEAR 2024-2025 RATES AND CHARGES FOR SEWER SERVICES

Periodically a report on the rates and charges for sewer service is prepared for the Buffalo Sewer Authority. This report presents findings regarding the revenue requirements of the sewer system and the adequacy of the budgeted sewer rates and charges.

The Report on Fiscal Year 2024-2025 Rates and Charges for Sewer Services (Attachment A) has been made available to your Honorable Body.

This report has been reviewed by the Audit Committee for the Buffalo Sewer Authority Board and is presented to the Board for their information to be acknowledged, received and filed.

RECEIVE AND FILE

Board Meeting of February 19, 2025

2-E

CLAIM AGAINST LIABILITY AND CASUALTY RESERVE FUND

WHEREAS: Denise Alston filed a Notice of Claim for property damage arising out of an alleged sewer basement back up at or near 469 Wyoming in the City of Buffalo on or about April 12, 2024.

WHEREAS: The City of Buffalo Corporation Counsel's Office has reviewed this matter with the General Counsel and agrees that the final settlement amount of $13,072.86 is in the best interest of the Buffalo Sewer Authority.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes payment to Denise Alston in the final settlement amount of $13,072.86 and in full and complete settlement of this matter. This claim will be paid out of the Liability and Casualty Reserve Fund.

2-F

REQUEST FOR LEAVE OF ABSENCE

WHEREAS: Keegan Hanley, a Millwright Helper, has requested a non-medical leave of absence beginning January 2, 2025, and extending until July 2, 2025.

WHEREAS: The Executive Secretary has reviewed this request and recommends approving this leave of absence request for a period of six (6) months.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby grants Keegan Hanley a six (6) month unpaid non-medical leave of absence without pay beginning January 2, 2025, and extending until July 2, 2025.

2-G

REQUEST FOR LEAVE OF ABSENCE

WHEREAS: Oluwole McFoy, a Principal Sanitary Engineer, has requested a non-medical leave of absence beginning January 22, 2025, and extending until July 22, 2025.

WHEREAS: The Executive Secretary has reviewed this request and recommends approving this leave of absence request for a period of six (6) months.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby grants Oluwole McFoy a six (6) month unpaid non-medical leave of absence without pay beginning January 22, 2025 and extending until July 22, 2025.

2-H

AMENDMENT TO SCHEDULE OF JOB CLASSIFICATION PLAN

WHEREAS: There is a need to modify the Job Classification Plan.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority approves the deletion of the following positions to the Job Classification Plan:

One (1) Wastewater Operator II	00360161	411001

2-I

AMENDMENT TO SCHEDULE OF JOB CLASSIFICATION PLAN

WHEREAS: There is a need to modify the Job Classification Plan.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority approves the addition of the following positions to the Job Classification Plan:

One (1) Wastewater Operator II – 4A License	00360161	411001
One (1) Assist. Supt. of Mechanical Maintenance	00200111	411001
One (1) Principal Clerk	00200121	411001

2-J

CONFIRMATION OF APPOINTMENTS

SENIOR PERSONNEL CLERK (PERMANENT)
CITY HALL ADMINISTRATION
$72,779 PER ANNUM
EFFECTIVE: DECEMBER 30, 2024

JOY LOWE
1669 CLINTON ST. UPPER
BUFFALO, NY 14206

LABORER I (SEASONAL)
SEWAGE TREATMENT PLANT
$140 PER DAY
EFFECTIVE: JANUARY 6, 2025

MALIK ALI
662 HERTEL AVE.
BUFFALO, NY 14207

LABORER I (SEASONAL)
SEWAGE TREATMENT PLANT
$140 PER DAY
EFFECTIVE: JANUARY 6, 2025

ANTONIO RODRIQUEZ
73 LUDINGTON AVE.
BUFFALO, NY 14206

MILLWRIGHT (PERMANENT)
SEWAGE TREATMENT PLANT
$32.94 PER HOUR
EFFECTIVE: DECEMBER 9, 2024

RAFAEL RAMOS III
221 ABBINGTON AVE.
BUFFALO, NY 14223

PRINCIPAL SANITARY ENGINEER (PERMANENT)
SEWAGE TREATMENT PLANT
$132,291 PER ANNUM
EFFECTIVE: JANUARY 2, 2025

OLUWOLE MCFOY
56 CAMP ST.
BUFFALO, NY 14204

ASSISTANT PRINCIPAL ENGINEER (PERMANENT)
SEWAGE TREATMENT PLANT
$118,196 PER ANNUM
EFFECTIVE: JANUARY 2, 2025

ROSALEEN NOGLE
100 BAYNES
BUFFALO, NY 14213

SEWER CONSTRUCTION WORKER (PROVISIONAL)
SEWAGE MAINTENANCE DIVISION
$27.44 PER HOUR
EFFECTIVE: JANUARY 6, 2025

APOLONIO CLAUSSELLS
327 NORTHUMBERLAND AVE
BUFFALO, NY 14215

LABOR SUPERVISOR I (PERMANENT)
SEWAGE TREATMENT PLANT
$68,247 PER ANNUM
EFFECTIVE: JANUARY 20, 2025

RICHARD COTTER
375 DOWNING ST.
BUFFALO, NY 14220

LABORER II (PERMANENT)
SEWAGE MAINTENANCE DIVISION
$25.61 PER HOUR
EFFECTIVE: JANUARY 27, 2025

MOUSSA FAZILI
89 18TH ST
BUFFALO, NY 14213

PREVENTIVE MAINTENANCE COORDINATOR (PROVISIONAL)
SEWAGE MAINTENANCE DIVISION
$69,101 PER ANNUM
EFFECTIVE: FEBRUARY 3, 2025

DESIREE BRIGGS
45 ENGLEWOOD
BUFFALO, NY 14214

WASTEWATER OPERATOR II (PERMANENT)
WASTEWATER DIVISION
$29.46 PER HOUR
EFFECTIVE: FEBRUARY 3, 2025

SALVATORE FALZONE
2898 STONY POINT RD
GRAND ISLAND, NY 14072

WHEREAS: The preceding appointments were made by the Executive Secretary and Principal Sanitary Engineer since the last Board Meeting; and

WHEREAS: The Executive Secretary requests confirmation of each appointment.

NOW THEREFORE
BE IT RESOLVED: That the preceding appointments are hereby confirmed by the Board of the Buffalo Sewer Authority

2-K

TUITION REIMBURSEMENT

WHEREAS: In accordance with the Agreements between the Buffalo Sewer Authority and CSEA Local 815 and the Communications Workers of America, the following Buffalo Sewer Authority employees have applied for Tuition Reimbursement:

EMPLOYEE	SCHOOL	COURSE	TUITION%	REIMBURSEMENT TOTAL
Edwin Geter	Buffalo State University	Public Administration + Policy	90%	$1,371.87

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves the above applications for Tuition Reimbursement totaling $1,371.87. These Reimbursements will be charged to account no. 00200106-421026.

2-L

TUITION ASSISTANCE

WHEREAS: In accordance with the Agreements between the Buffalo Sewer Authority and CSEA Local 815 and the Communications Workers of America, the following Buffalo Sewer Authority employees have applied for Tuition Assistance:

EMPLOYEE	SCHOOL	COURSE	TUITION
Danielle Sharp	Empire State University	Algebra	$1,180.00
Danielle Sharp	Empire State University	Human Biology	$1,180.00

WHEREAS: No Funds will be expended at this time.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves the above applications for Tuition Assistance.

ITEM NO. 3

AUTHORIZATION FOR CHANGE ORDER TO BLANKET PURCHASE ORDER NO. 22500090

CONTRACTOR:	ORIGINAL CONTRACT COST	$40,924.00
Mollenberg-Betz	RENEWAL 2022-2023	$40,924.00
300 Scott St	RENEWAL 2023-2024	$40,924.00
Buffalo, NY 14204	RENEWAL 2024-2025	$40,924.00
	THIS CHANGE ORDER NO.1	$105,000.00
	ADJUSTED CONTRACT COST	$268,696.00

WORK: Gas Burner System inspection, preventative maintenance and corrective repair services.

DESCRIPTION OF CHANGE OR EXTRA WORK:

Item #1 $105,000.00 - Additional funding due to major unplanned gas burner system repair work. System and maintenance emergency work and projected remaining work through balance of 2024-2025 contract term. For each of the three (3) Auxiliary Boilers; non-return valves, site glass installation, and service for boiler inspection. Digester gas slam shut valve replacement. Slam-shut valve parts and installation .

REASON FOR CHANGE OR EXTRA WORK:

Item #1 Necessary maintenance and repair work for safety equipment and continued operability

COST OF CHANGE OR EXTRA WORK:

Item #1 $105,000.00

THE TOTAL COST OF THE CHANGE OR EXTRA WORK: $105,000.00

The Total INCREASE to the Contract as a result of this Change Order is $105,000.00

WHEREAS: On April 7, 2021, the Board of the Buffalo Sewer Authority awarded a contract to Mollenberg-Betz, Inc., for Gas Burner System Inspection, Preventive Maintenance and Corrective Repair Services for the period July 1, 2021 to June 30, 2022 with an option to renew four (4) one-year periods, at an annual cost not to exceed $40,924.00; and

WHEREAS: On May 4, 2022, the Board authorized the extension of this contract for the period July 1, 2022 to June 30, 2023; and

WHEREAS: On March 1, 2023, the Board authorized the extension of this contract for the period July 1, 2023 to June 30, 2024; and

WHEREAS: Mollenberg-Betz Inc., has agreed to extend this contract for one (1) additional year under the same terms and conditions for fiscal year 2024-2025; and

WHEREAS: It is now necessary to increase the Blanket Purchase Order No. 22500090 in the amount of $105,000.00 from $40,924.00 to $145,924.00

CONTRACT SUPPLEMENT CONDITIONS:

1. The contract completion date established in the original contract or as modified by previous contract supplements is hereby unchanged.

2. Any additional work to be performed under this contract supplement shall be carried out in compliance with the specifications included in the preceding description of changes involved with the supplemental contract drawings designated none and under the provisions of the original contract, including compliance with applicable equipment specifications, general specifications, and project specifications for the same type of work.

3. This contract supplement unless otherwise provided herein does not relieve the Contractor from strict compliance with the guarantee provisions of the original contract, particularly those pertaining to performance and operation of equipment.

4. The Contractor expressly agrees that he will place under coverage of his performance and payment bonds and Contractor's Insurance all work covered by this contract supplement. The Contractor will furnish to the Owner evidence of increased coverage of his performance and payment bonds for the accrued value of all contract supplements that exceeds the original contract price by twenty percent (20%).

5. The costs established under this contract supplement are acknowledged as including any and all costs associated with the work described herein and including any and all costs associated with any and all work performed or to be performed by the Contractor that may be affected in any manner by the work described herein.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secreatary and Principal Sanitary Engineer to approve a change order in the amount of $105,000.00, increasing Blanket Order No. 22500090 with Mollenberg-Betz to provide the inspection and preventative maintenance and repair services for the Gas Burner System at the Buffalo Sewer Authority facilities, from $40,924.00 to $145,924.00 through June 30, 2025, making the adjusted contract cost $268,696.00. Funds for this change order will be charged to account no. 00380106-443421.

MOTION TO APPROVE

MADE BY MRS. PETRRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of February 19, 2025

ITEM NO. 4

CHANGE ORDER NO. 2 - CONTRACT NO. 82000045 IN-PLANT HIGH PRESSURE STEAM SYSTEM MAINTENANCE SERVICES

CONTRACTOR:	ORIGINAL CONTRACT COST	$576,700.00
Quackenbush Company, Inc.	RENEWAL 2023-2024	$576,700.00
495 Kennedy Road	RENEWAL 2024-2025	$576,700.00
Buffalo, NY 14227	PREVIOUS CHANGE ORDER	$80,000.00
	THIS CHANGE ORDER	$240,000.00
	ADJUSTED CONTRACT COST	$2,050,100.00

WORK: In-Plant High Pressure Steam System Maintenance Services

DESCRIPTION OF CHANGE OR EXTRA WORK:

Item #1 $240,000.00 - Additional funding due to major unplanned High Pressure Steam System maintenance, emergency work, and projected remaining work through balance of 2024-2025 contract term.

REASON FOR CHANGE OR EXTRA WORK:

Item #1 Portable air compressors were brought in to replace failed air compressors. And kept on site for redundancy.

Item #2 Completion of 150 linear feet of 6" compromised chilled water line installation to maintenance building.

Item #3 Repair and installation associated with chemical handling heat exchangers and steam and heated hot water piping.

Item #4 Replace and install broken air compressor for Laboratory.

Item #5 Time and materials associated with the installation of Duplex strainer booster pump.

COST OF CHANGE OR EXTRA WORK:

Item #1 $240,000

THE TOTAL COST OF THE CHANGE OR EXTRA WORK: $240,000.00

The Total INCREASE to the Contract as a result of this Change Order is $240,000.00

WHEREAS: On May 25, 2022, the Board of the Buffalo Sewer Authority awarded a contract to Quackenbush Company, Inc., for In-Plant High Pressure Steam System Maintenance Services for the period July 1, 2022 to June 30, 2023, with an option to renew for four (4) one-year periods, at an annual cost not to exceed $576,700.00; and

WHEREAS: On July 26, 2023, the Board of the Buffalo Sewer Authority authorized the General Manager to renew contract number 82000045 with Quackenbush, for In-Plant High Pressure Steam System Maintenance Services for the period July 1, 2023 to June 30, 2024, at an annual cost not to exceed $576,700.00; and

WHEREAS: On April 3, 2024, the Board of the Buffalo Sewer Authority authorized change order No. 1 to contract number 82000045 in the amount of $80,0000.00; and

WHEREAS: On June 26,2024, the Board of the Buffalo Sewer Authority authorized the General Manager to renew contract number 82000045 with Quackenbush, for In-Plant High Pressure Steam System Maintenance Services for the period July 1, 2024 to June 30, 2025, at an annual cost not to exceed $576,700.00; and

WHEREAS: The Treatment Plant Superintendent, Principal Chief Stationary Engineer and staff have reviewed a request for Change Order No. 2 to Contract No. 82000045 in the amount of $240,000.00 as detailed above and recommend approval.

CONTRACT SUPPLEMENT CONDITIONS:

1. The contract completion date established in the original contract or as modified by previous contract supplements is hereby unchanged.

2. Any additional work to be performed under this contract supplement shall be carried out in compliance with the specifications included in the preceding description of changes involved with the supplemental contract drawings designated none and under the provisions of the original contract, including compliance with applicable equipment specifications, general specifications, and project specifications for the same type of work.

3. This contract supplement unless otherwise provided herein does not relieve the Contractor from strict compliance with the guarantee provisions of the original contract, particularly those pertaining to performance and operation of equipment.

4. The Contractor expressly agrees that he will place under coverage of his performance and payment bonds and Contractor's Insurance all work covered by this contract supplement. The Contractor will furnish to the Owner evidence of increased coverage of his performance and payment bonds for the accrued value of all contract supplements that exceeds the original contract price by twenty percent (20%).

5. The costs established under this contract supplement are acknowledged as including any and all costs associated with the work described herein and including any and all costs associated with any and all work performed or to be performed by the Contractor that may be affected in any manner by the work described herein.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the General Manager to approve the Change Order No. 2 to Contract No. 82000045 as written in the above Agenda Item, increasing the contract cost in the amount of $240,000.00 making the adjusted contract cost $2,050,100.00. Expenses from this contract will be charged to account no. 00380106-443421.

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of February 19, 2025

ITEM NO. 5

AUTHORIZATION TO PURCHASE A VEHICLE UNDER THE ONONDAGA BID 106-19 2025

WHEREAS: The Director of Sewer Maintenance and Head Motor Equipment Mechanic, request approval to purchase the following vehicle, with additional options, available under an Onondaga County Contract to add to the existing fleet for Sewer Maintenance:

County Contract	Vendor	Vehicle	Cost
Bid No. 2025 Award No. 7974 Quote:36630	Van Bortel Ford	Two (2) 2026 Ford F-750 XL Gas Reg Cab With various options as listed on quote#36630: Oxford White 7.3l 2V DEVCT NA PFI V8 Gas – 335 HP @3750 RMP Torque 4568 ft. lbs @3750rpm. Ford TorqShift HD 6-Speed Automatic – Double Overdrive, LESS PTO Provision and Tow/Haul top. Mud Flap Holder With Flaps 182" Wheelbase/108":CA/70" AF/291" OAL. Transmission Power Take-Off Provision w/LineDrive Capability and Tow/Haul Jump Start Stud-Remote Mounted.Wheels, Front 22.5x8.25 White Powder Coated Steel 10-Hole	$64,578.69 (each)
		Delivery Charge:	$ 320.00
		Total Vehicle Cost:	$129,477.38

WHEREAS: The Director of Sewer Maintenance and Head Motor Equipment Mechanic recommend the purchase of the above two (2) vehicles at the total cost of $129,477.38.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority authorizes the Executive Secretary and Principal Sanitary Engineer to purchase the above vehicles and additional options indicated, from Van Bortel Ford, at a total cost of $129,477.38. This purchase will be charged to account no. 00690107-474200.

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of February 19, 2025

ITEM NO. 6

AUTHORIZATION TO PURCHASE DUMP BODY INSTALLATION UNDER THE ONONDAGA BID 106-19 2025

WHEREAS: The Director of Sewer Maintenance and Head Motor Equipment Mechanic, request approval to purchase the following vehicle equipment and dump body installation under an Onondaga County contract:

County Contract	Vendor	Vehicle	Cost
Bid No. 2025 Award No. 7974 Quote: NF30222	Valley Fab and Equipment	Install Customer Owned Brandon Steel Formed Side DumpBody 12'X 42" X 48" 42" FORMED SIDES 48" STRAIGHT GATE – AIR RELEASE 3-COAL DOORS 30" CABSHIELD STEEL LADDER LEFT / RIGHT FRONT MAILHOT SINGLR ACTING HOIST CHASSIS IS A FORD-F-750 W/ 7.3 GAS MOTOR AND AUTOMATIC TRANSMISSION VALLEY FAB PROVIDED 10 STROBES IN CABSHIELD 3-EACH SIDE FORWARD FACING (4) 1 EACH SIDE OUTWARD FACING (2) 2 EACH SIDE REARWARD FACING (4) 3 LIGHT HOLES IN REAR POST STOP/ TURN/ TAIL BACKUP STROBE Total Vehicle Cost:	$34,735 (each) $69,470.00

WHEREAS: The Director of Sewer Maintenance and Head Motor Equipment Mechanic recommend the purchase of the above dump body installation for two (2) Ford F750 chassis at the total cost of $69,470.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority authorizes the Executive Secretary and Principal Sanitary Engineer to purchase the above dump body installation for two (2) Ford F750 chassis, from Valley Fab, at a total cost of $69,470. This purchase will be charged to account no. 00690107-474200.

MOTION TO APPROVE

MADE BY MR. ROOSEVELT

2ND BY MRS. PETRUCCI

AYES 3 NOES 0

Board Meeting of February 19, 2025

ITEM NO.7

REPORT ON BIDS RECEIVED - CORNELIUS CREEK CSO BACKWATER GATE FLOODING MITIGATION PROJECT

WHEREAS: Formal bids were advertised and solicited for the Cornelius Creek CSO Backwater Gate Flooding Mitigation Project. The following bids were received and publicly opened by the Buffalo Sewer Authority on Thursday, January 30, 2025 at 11:00 AM:

Contractor	**Bid Amount**
Mark Cerrone, Inc.	$2,631,875.00
Nova Site Company, LLC	$3,003,550.00
ACE	$3,428,000.00
Hohl Industrial Services	Bid rejected**

**Per specification 00 21 13 instruction to bidders "Any proposal which fails to name a price, written in both words and figures, for each of the items of work when the proposal is on the basis of combined lump sum and unit price may be held to be informal and may be rejected."; and

WHEREAS: The proposals were received and the contract will be awarded on the basis of unit bid and lump sum prices. The bids do not reflect the true amount of the contract; and

WHEREAS: The Buffalo Sewer Authority's Engineering consultant, Wendel, reviewed the packages and recommends awarding the contract to the low bidder, Mark Cerrone, Inc.; and

WHEREAS: The Principal Sanitary Engineer has reviewed the consultant's recommendation and concurs with the recommendation provided by Wendel to award the contract to the low bidder, Mark Cerrone, Inc.;

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary to enter into and execute a contract with Mark Cerrone, Inc.; for the Cornelius Creek CSO Backwater Gate Flooding Mitigation Project at a cost not to exceed $2,631,875.00. Expenses for this contract shall be charged to account no. 02000593-490740.

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of February 19, 2024

ITEM NO. 8

CHANGE ORDER NO. CR-B-02, BIRD ISLAND WASTEWATER TREATMENT FACILITY SECONDARY SYSTEM REHABILITATION AND UPGRADES, CONTRACT B – CLEANING, CONTRACT NO. 82000050

CONTRACTOR:	ORIGINAL CONTRACT COST	$10,220,036.38
J.A. Brundage the Drain Doctor Inc.	PREVIOUS CHANGE ORDERS	$5,386,339.16
1400 College Ave	THIS CHANGE ORDER	$15,000.00
Niagara Falls, New York 14305		$15,621,375.54

VENDOR NO. 1944 ACCOUNT NO. 02000532-490740

WORK: Contract B – Cleaning: This contract includes the cleaning and removal of grit and debris which have accumulated in the secondary system over time, reducing the plant flow and isolation capabilities.

DESCRIPTION OF CHANGE OR EXTRA WORK:

Item #1 Emergency sewer cleaning and televising

REASON FOR CHANGE OR EXTRA WORK:

Item #1 It is necessary to provide around the clock sewer cleaning and televising to prevent and remediate sewer back-ups and at times, both the current emergency contractor and internal Buffalo Sewer Authority staff have been unavailable for this purpose.

COST OF CHANGE OR EXTRA WORK:

Item #1 $15,000.00

THE TOTAL COST OF THE CHANGE OR EXTRA WORK: $15,000.00

WHEREAS: On June 23, 2021, the Board of the Buffalo Sewer Authority authorized the General Manager to enter into and execute a contract with J.A. Brundage the Drain Doctor Inc. for Bird Island Treatment Facility Secondary System Rehabilitation and System Upgrades project as the responsible low bidder at a cost not to exceed $10,220,036.38; and

WHEREAS: On September 27, 2022, Notice to Proceed was issued for Contract No. 82000050 in accordance with the above Board approval; and

WHEREAS: On November 1, 2023, Change Oder CR-B-01 was approved for inflation adjustments; and

WHEREAS: The Principal Sanitary Engineer reviewed Change Order No. CR-B-02 to Contract No. 82000050 in the amount of $15,000.00 as detailed above and recommend approval.

CONTRACT SUPPLEMENT CONDITIONS:

1. The contract completion date established in the original contract or as modified by previous contract supplements is hereby changed by 0 calendar days, resulting in a final completion date of **March 31, 2027**.

2. Any additional work to be performed under this contract supplement shall be carried out in compliance with the specifications included in the preceding description of changes involved with the supplemental contract drawings designated none and under the provisions of the original contract, including compliance with applicable equipment specifications, general specifications, and project specifications for the same type of work.

3. This contract supplement unless otherwise provided herein does not relieve the Contractor from strict compliance with the guarantee provisions of the original contract, particularly those pertaining to performance and operation of equipment.

4. The Contractor expressly agrees that he will place under coverage of his performance and payment bonds and Contractor's Insurance all work covered by this contract supplement. The Contractor will furnish to the Owner evidence of increased coverage of his performance and payment bonds for the accrued value of all contract supplements that exceeds the original contract price by twenty percent (20%).

5. The costs established under this contract supplement are acknowledged as including any and all costs associated with the work described herein and including any and all costs associated with any and all work performed or to be performed by the Contractor that may be affected in any manner by the work described herein.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves Change Order No. CR-B-02 to Contract No. 82000050 as written in the above Agenda Item, increasing the contract cost in the amount of $15,000.00 making the adjusted contract cost $15,621,375.54. Expenses from this contract will be paid from Account No. 02000532-490740.

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of February 19, 2025

ITEM NO. 9

ADJOURNMENT OF MEETING

MOTION TO ADJOURN

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of February 19, 2025

BUFFALO
SEWER AUTHORITY

ATTACHMENT A

BUFFALO
SEWER AUTHORITY

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MEMORANDUM OF UNDERSTANDING BETWEEN BUFFALO SEWER AUTHORITY AND BUFFALO MUNICIPAL HOUSING AUTHORITY

The Memorandum of Understanding (MOU) is entered into on the _____ day of _____ in _____ (herein referred to as the "Effective Date") by and between:

> Gillian Brown, Executive Director of Buffalo Municipal Housing Authority Bridges Development, 300 Perry Street, Buffalo, NY, 14204, herein referred to as "Party A" and
>
> Rosaleen Nogle, Principal Sanitary Engineer for Buffalo Sewer Authority, Room 1038 City Hall, 65 Niagara Square, Buffalo, NY 14202, and Charles Riley, Executive Secretary for the Buffalo Sewer Authority, Room 1038 City Hall, 65 Niagara Square, Buffalo, NY 14202 herein referred to as "Party B".

Parties may be referenced individually as "Party" and collectively as "Parties"

PURPOSE

The purpose of this MOU is to establish a good faith foundation between the Parties for future collaborative efforts that are mutually beneficial. The Parties agree to work together in a cooperative and coordinated manner to achieve each Party's individual goals and collaborative goals.

This MOU is designed to detail the specifics of the working relationship between the Parties to the mutual benefit of the Parties and the community they serve.

BACKGROUND

Buffalo Sewer Authority (BSA), represented by "Party B," upon written consent from Buffalo Municipal Housing Authority (BMHA), represented by "Party A," intends to install green infrastructure practices on two (2) BMHA properties.

In June 2021, BSA secured $54 million in funding through an Environmental Impact Bond to install green infrastructure in targeted areas of Buffalo's combined sewer service area. All proposed work will be fully funded through this Environmental Impact Bond and funding from the Rain Check 2.0 Green Infrastructure Program.

The primary objective of BSA's Rain Check 2.0 program is to reduce the frequency and occurrence of combined sewer overflows while increasing community aesthetics and increasing resiliency. Combined sewer overflows occur in combined sewer systems which are designed to handle both stormwater and sanitary sewage in a single pipe system. When the volume of water entering the combined sewer system exceeds the capacity of the system and/or downstream wastewater treatment plant (during rainfall events), untreated sewage from this pipe network is discharged into nearby water bodies to prevent backups in homes and streets. Green infrastructure practices are used to supplement the combined sewer system by providing additional storage for rainfall events. This reduces the frequency and occurrence of combined sewer overflows, while providing secondary benefits such as reduced nuisance flooding, reduced urban heat islands, and improved air and water quality.

Green infrastructure practices that will be installed at BMHA Properties include stormwater tree trenches and porous asphalt.

SITE SELECTION CRITERIA

Six (6) priority combined sewer overflow (CSO) basins were identified during the development of the Rain Check 2.0 Opportunity Report (Rain Check Report). These CSO basins encompass a quarter of the City's land area and nearly half of its population.

According to BSA's Rain Check Report, implementing green infrastructure practices within these basins will have the greatest impact on water quality and public health in Buffalo. BMHA sites within these basins were identified and selected based on the potential impervious area that could be captured, the topography of the site and surrounding area, the location of existing utilities, the space available for siting green infrastructure practices, and other ancillary features which may impact the success of green infrastructure practices.

BSA is proposing green infrastructure stormwater retrofits at the following locations:

Project Address	Property Name	Proposed Improvements
275 Suffolk Street, Buffalo, NY 14215	BMHA Langfield / Kenfield Homes	• Stormwater Tree Trench – Suffolk Street, Langfield Drive, Hempstead Ave, Weston Ave, Edison Ave, and Eggert Road • Porous Asphalt – Parking Lot Replacements, Pavement replacement on Oakmont Ave., Tower Street, Kenfield Court, Hempstead Ave., Eggert Court, Congressional Walk, Suffolk Street, Beiter Walk, Hazelwood Ave, and Langfield Service Road
945 East Ferry Street, Buffalo, NY 14211	BMHA Ferry and Grider Projects	• Porous Asphalt – Donovan Drive and associated parking areas

DURATION OF MOU

This MOU becomes effective on the date it is signed by both parties. It remains in force unless explicitly terminated, in writing, by either party.

DEFINITIONS

Green Infrastructure: A network of stormwater management systems that use natural processes, such as infiltration and filtration through soil, to manage stormwater runoff, reduce urban heat island effects, and improve air and water quality. Green infrastructure practices are proposed to supplement BMHA's traditional storm sewer system to reduce the risk of flooding in Buffalo's urban areas.

Porous asphalt: A permeable pavement system that is designed to allow water to pass through its surface and infiltrate into the ground.

Stormwater Tree Trenches: are underground storage with new tree plantings, proposed under the sidewalk and landscaped areas in the public right-of-way surrounding BMHA properties.

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ROLES AND RESPONSIBILITIES

To achieve the Parties' mutual desires, each party agrees to the following roles and responsibilities:

Party A Roles and Responsibilities shall include:

- Signing the MOU with BSA outlining proposed scope of work, construction, property access, and ongoing maintenance activities.
- Committing to keeping systems in place for a minimum of 20 years from the end of construction. If systems are removed, it is expected that an alternate stormwater management practice will be constructed to provide the same volume of treatment on the site.
- Providing access to relevant site and utility files for the properties, including topographic surveys, geotechnical and environmental reports, utility plans, or any other information that may support the design of the project sites.
- Providing access to BMHA sites, at pre-approved times, to perform site walks, geotechnical investigation, and topographic survey.
- Providing a summary of any planned improvements to BMHA properties before design is initiated that may impact the proposed scope of work.
- Approving the final location for all proposed green infrastructure stormwater retrofits.
- Supporting development of a construction schedule to meet BSA's timeline (e.g., all projects must be constructed by June 15, 2028).
- Supporting development of construction staging plans.
- Providing a liaison for each property who can work with BSA's designers, contractors, and maintenance teams.
- Providing BSA with at least two (2) weeks' notice prior to any future activities that may impact the proposed green infrastructure retrofits, such as, but not limited to, utility trenching, site landscaping changes, or changes in site conditions such as the addition or removal of pavement.
- Alerting BSA maintenance staff as to any changes in the proposed green infrastructure stormwater retrofits, such as erosion, trash collection, ponding water, or plant health.
- Providing snow removal on porous pavement surfaces using pre-approved materials and practices. BSA will provide supplementary plowing services when feasible and/or practical during weekday, working hours.
- Committing to not storing deleterious materials such as sand, salt, or fill in or on the GI installations.
- Providing site access to BSA maintenance crews as necessary and with 48 hours for routine maintenance and four (4) hours for expedited maintenance of notification
- Providing and maintaining appropriate insurances and amounts required by law for comprehensive general liability, comprehensive automotive liability, excess/umbrella liability, worker's compensation and employer's liability

Party B Roles and Responsibilities shall include:

- Signing the MOU with BMHA outlining the proposed scope of work, construction, property access, and ongoing maintenance activities.
- Provide project funding for the design, engineering, and construction phases.
- Selecting a design engineer and site contractor(s) to design and construct the proposed green infrastructure stormwater retrofits.
- Ensuring that all proposed green infrastructure stormwater retrofits are designed in accordance with BSA and New York State design standards.
- BSA or their designated representative will attend up to six meetings with residents of subject BMHA properties (a maximum of three per site), to discuss the proposed projects prior to beginning construction.

- Meaningfully addressing concerns raised by BMHA staff related to tenant issues in relation to the proposed green infrastructure design and construction work in a timely manner to the greatest extent practicable.
- Providing construction oversight during construction.
- Ensuring that project schedule is maintained and that projects are constructed as planned by June 15, 2028.
- Providing assistance with winter plowing and pavement maintenance to ensure better, long-term performance when feasible and/or practical, during weekday, working hours, with the understanding that the primary winter plowing responsibilities will remain with Party A.
- Providing on-going operations and maintenance of the proposed green infrastructure stormwater retrofits, including the following:
    - Monthly Maintenance Activities:
        - Review system function. Ensure systems do not have ponding water.
        - Check for evidence of invasive species. Check for tree and plant health.
        - Remove trash and debris.
    - Quarterly Activities:
        - Vacuum sweep porous asphalt parking lot.
        - Inspect for sediment build-up, clean out as needed.
    - Annual Maintenance Activities:
        - Remove and replace mulch, as needed, in landscaped practices.
        - Prune and replace dead or dying vegetation. Remove invasive species as needed.
- Provide on-going repairs to porous pavement and stormwater tree trenches as may be necessary to keep them in a fit and usable condition.
- Providing and maintaining appropriate insurances and amounts required by law for comprehensive general liability, comprehensive automobile liability, excess/umbrella liability, worker's compensation and employer's liability insurance

The Parties agree to uphold their roles and responsibilities in a committed, good-faith manner.

AGREEMENTS

- BSA agrees to take no actions to impact the title of any BMHA property.
- BSA agrees to negotiate any and all necessary binding agreements with BMHA Counsel.

Party B agrees to uphold their agreements in a committed, good-faith manner.
Party A agrees to uphold their agreements in a committed, good-faith manner.

TIMELINE

To meet grant funding requirements, all projects must be fully constructed by June 15, 2028. This will require routine coordination between BSA, BMHA, and the design contractor.

The following is the proposed project schedule:

Description	Start Date	Duration (Weeks)	End Date
Buffalo Municipal Housing Authority Approval	11/21/2024	0	11/21/2024
Notice to Proceed – Design	3/24/2025	0	3/24/2025
30% Design	3/25/2025	8	5/20/2025
Public Notice for Site Work	5/21/2025	4	6/18/2025
Geotechnical Investigation and Topographic Survey	6/19/2025	12	9/11/2025
60% Design	9/12/2025	12	12/5/2025
Buffalo Sewer Review – 60% Design	12/8/2025	2	12/22/2025
90% Design	12/23/2025	8	2/17/2025
Buffalo Sewer Review – 90% Design	2/18/2026	2	3/4/2026
Final Documents and Bid Set	3/5/2026	6	4/16/2026
Bidding	4/17/2026	4	5/15/2026
Notice to Proceed - Construction	5/18/2026	12	8/10/2026
Construction	8/11/2026	91	5/5/2028

COMMUNICATION BETWEEN PARTIES

BSA or their designated representative will attend bi-weekly or monthly coordination meetings with BMHA staff to provide schedule and progress updates during the design and construction phases.

Communication between Parties will take place monthly and/or as needed for routine maintenance.

Point of Contact for Party A:

Gillian Brown
Executive Director of Buffalo Municipal Housing Authority
P: 716-855-6711, Ext. 204
E: gbrown@bmhahousing.com

Point of Contact for Party B is:

Rosaleen B. Nogle, PE, BCEE, BC.WRE
Principal Sanitary Engineer
P: 716-851-4664, Ext. 4203
E: rnogle@buffalosewer.org

Working Hours: 8AM – 4:30PM

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Point(s) of Contact(s) for BMHA Property

David Zielinski
Director of Capital Improvements
P: 716-855-6711 Ext. 303
E: dzielinski@bmhahousing.com

Kevin Moran
Director of Technical Operations
P: 716-855-6711 Ext. 362
E: kmoran@bmhahousing.com

Point(s) of Contact(s) for BSA Maintenance Team:

Jordan Roose
Forester
P: 716-851-4664, Ext 5349
E: jroose@buffalosewer.org

After Hours Emergency Contact for Party A

Work Order
716-855-6711 Ext 1

After Hours Emergency Contact for Party B

Complaint Crew
P: 716-913-9919

AMENDMENTS

The terms of this MOU may be amended upon written approval by both original parties and their designated representatives.

TERMS AND TERMINATION

This agreement becomes effective on the date it is signed by both parties. It remains in force unless explicitly terminated, in writing, by both parties.

Both Parties may terminate this MOU by means of signing a termination addendum upon 30 days' written notice to the other parties.

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The undersigned Parties acknowledge and agree to this MOU:

SIGNATURES

FOR:	Buffalo Sewer Authority	DATE	
Signature	Rosaleen Nogle		Principal Sanitary Engineer
FOR:	Buffalo Sewer Authority	DATE	
Signature	Charles Riley		Executive Secretary
FOR:	Buffalo Municipal Housing Authority	DATE	
Signature	Gillian Brown		Executive Director

BUFFALO
SEWER AUTHORITY

ATTACHMENT B

BUFFALO
SEWER AUTHORITY

MEMORANDUM OF UNDERSTANDING BETWEEN BUFFALO SEWER AUTHORITY AND BUFFALO PUBLIC SCHOOLS

The Memorandum of Understanding (MOU) is entered into on the _____ day of _____ in _____ (herein referred to as the "Effective Date") by and between:

> Mel L. Aston, AIA, Executive Director of Buffalo Public Schools and Director of Plant Services & School Planning, 403 City Hall, Buffalo, NY, 14202, herein referred to as "Party A" and
>
> Rosaleen Nogle, Principal Sanitary Engineer for the Buffalo Sewer Authority, Room 1038 City Hall, 65 Niagara Square, Buffalo, NY 14202 and Charles Riley, Executive Secretary for Buffalo Sewer Authority, Room 1038 City Hall, 65 Niagara Square, Buffalo, NY 14202, herein referred to as "Party B".

Parties may be referenced individually as "Party" and collectively as "Parties"

PURPOSE

The purpose of this MOU is to establish a good faith foundation between the Parties for future collaborative efforts that are mutually beneficial. The Parties agree to work together in a cooperative and coordinated manner to achieve each Party's individual goals and collaborative goals.

This MOU is designed to detail the specifics of the working relationship between the Parties to the mutual benefit of the Parties and the community they serve.

BACKGROUND

Buffalo Sewer Authority (BSA), represented by "Party B," upon written consent from Buffalo Public Schools, represented by "Party A," intends to install green infrastructure practices on twenty (20) Buffalo Public School properties.

In June 2021, BSA secured $54 million in funding through an Environmental Impact Bond to install green infrastructure in targeted areas of Buffalo's combined sewer service area. All proposed work will be fully funded through this Environmental Impact Bond and funding from the Rain Check 2.0 Green Infrastructure Program.

The primary objective of BSA's Rain Check 2.0 program is to reduce the frequency and occurrence of combined sewer overflows while increasing community aesthetics and increasing resiliency. Combined sewer overflows occur in combined sewer systems which are designed to handle both stormwater and sanitary sewage in a single pipe system. When the volume of water entering the combined sewer system exceeds the capacity of the system and/or downstream wastewater treatment plant (during rainfall events), untreated sewage from this pipe network is discharged into nearby water bodies to prevent backups in homes and streets. Green infrastructure practices are used to supplement the combined sewer system by providing additional storage for rainfall events. This reduces the frequency and occurrence of combined sewer overflows, while providing secondary benefits such as reduced nuisance flooding, reduced urban heat islands, and improved air and water quality.

Green infrastructure practices that will be installed at Buffalo Public School Properties include rain gardens, curb extensions, stormwater tree trenches, and porous asphalt.

BUFFALO
SEWER AUTHORITY

SITE SELECTION CRITERIA

Six (6) priority combined sewer overflow (CSO) basins were identified during the development of the Rain Check 2.0 Opportunity Report (Rain Check Report). These CSO basins encompass a quarter of the City's land area and nearly half of its population.

According to BSA's Rain Check Report, implementing green infrastructure practices within these basins will have the greatest impact on water quality and public health in Buffalo. School sites within these basins were identified and selected based on the potential impervious area that could be captured, the topography of the site and surrounding area, the location of existing utilities, the space available for siting green infrastructure practices, and other ancillary features which may impact the success of green infrastructure practices.

BSA is proposing green infrastructure stormwater retrofits at the following locations:

Project Address	Formal School Name	Proposed Improvements
50 A Street Buffalo, NY 14211	Public School 90: Early Childhood Center	• Rain Garden – Peterson Street • Rain Garden – Mills Street • Stormwater Tree Trench – Mills Street • (2) Stormwater Tree Trench – A Street • Porous Asphalt – Parking Lot Replacement
340 Fougeron Street Buffalo, NY 14211	Public School 92: New B.U.I.L.D. Community School	• Stormwater Tree Trench – Fougeron Street •
1409 East Delavan Avenue Buffalo, NY 14205	Buffalo Public School Property	• Stormwater Tree Trench – East Delavan Avenue • Porous Asphalt – Parking Lot Replacement
1448 East Delavan Avenue Buffalo, NY 14205	Buffalo Public School Property	• Porous Asphalt – Parking Lot Replacement
167 East Utica Street Buffalo, NY 14208	Leonardo Da Vinci High School @ Public School 8	• Rain Garden – Masten Avenue • Porous Asphalt – Parking Lot Replacement • Porous Asphalt – E Utica Street Parking Bays Replacement
450 Masten Avenue Buffalo, NY 14209	Public School 192: Buffalo Academy for Visual and Performing Arts (BAVPA)	• (3) Stormwater Tree Trench – East Ferry Street • Stormwater Tree Trench – Woodlawn Avenue • Stormwater Tree Trench – Michigan Avenue • Rain garden – Woodlawn Avenue • Porous Asphalt – Masten Avenue Parking Bay Replacement
230 Easton Avenue Buffalo, NY 14215	Public School 82: Ronald Peoples School of Scholars	• Stormwater Tree Trench – Hazelwood Avenue • (2) Rain garden – Easton Avenue • Porous Asphalt – Parking Lot Replacement

Project Address	Formal School Name	Proposed Improvements
157 Elk Street Buffalo, NY 14210	Public School 33: Bilingual Center	• Mid-Block Curb Extension – Elk Street (South Side) • (3) Porous Asphalt – Parking Lot Replacement
106 Appenheimer Street Buffalo, NY 14214	Public School 89: Dr. Lydia T. Wright School of Excellence	• Porous Asphalt – Parking Lot Replacement • Stormwater Tree Trench – Appenheimer Avenue
600 Highgate Avenue Buffalo, NY 14215	Public School 80: Highgate Heights Elementary School	• Stormwater Tree Trench – Winspear Avenue •
1095 Jefferson Avenue Buffalo, NY 14208	Public School 99: Stanley M. Makowski Early Childhood Center	• (2) Stormwater Tree Trench – Dodge Street • Porous Asphalt – Parking Lot Replacement
400 Kensington Avenue Buffalo, NY 14214	Public School 301: Burgard High School	• Rain Garden – Van Gorder Street • Rain Garden – Kensington Avenue • (2) Stormwater Tree Trench – Kensington Avenue
453 Leroy Avenue Buffalo, NY 14215	Public School 61: Arthur O. Eve School of Distinction	• (2) Stormwater Tree Trench – Kensington Avenue • Porous Asphalt – Parking Lot Replacement • Rain Garden – Corner of Kensington Avenue and Leroy Avenue
1045 West Delavan Avenue Buffalo, NY 14209	Public School 17: Early Childhood Center	• Stormwater Tree Trench – Main Street • Porous Asphalt – Parking Lot Replacement
820 Northampton Street Buffalo, NY 14211	Public School 309: East Community High School	• Stormwater Tree Trench – Fougeron Street • Stormwater Tree Trench – East Parade Avenue • Stormwater Tree Trench – Northampton Street • (2) Stormwater Planter – Northampton Street • Porous Asphalt – Parking Lot Replacement
126 Donaldson Road Buffalo, NY 14208	Public School 74: Hamlin Park Claude & Ouida Clapp Academy	• Stormwater Tree Trench – Northland Avenue • Stormwater Tree Trench – Donaldson Road • Porous Asphalt – Parking Lot Replacement

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Project Address	Formal School Name	Proposed Improvements
212 Stanton Street Buffalo, NY 14212	Public School 31: Harriet Ross Tubman School	• Porous Asphalt – Parking Lot Replacement
1405 Sycamore Street Buffalo, NY 14211	Public School 97: Harvey Austin School	• Stormwater Tree Trench – Koons Avenue • Stormwater Tree Trench – Sycamore Street • Porous Asphalt – Parking Lot Replacement
329 Roehrer Avenue Buffalo, NY 14208	Public School 53: Community School	• Stormwater Tree Trench – Glenwood Avenue • • Porous Asphalt – Parking Lot Replacement

DURATION OF MOU

This MOU becomes effective on the date it is signed by both parties. It remains in force unless explicitly terminated, in writing, by either party.

DEFINITIONS

Curb extensions: Landscaped practices that are proposed within the roadway shoulder at strategic intersections to reduce pedestrian crossing distances while providing an area for stormwater management.

Green Infrastructure: A network of stormwater management systems that use natural processes, such as infiltration and filtration through soil, to manage stormwater runoff, reduce urban heat island effects, and improve air and water quality. Green infrastructure practices are proposed to supplement Buffalo Public School's traditional storm sewer system to reduce the risk of flooding in Buffalo's urban areas.

Porous asphalt: A permeable pavement system that is designed to allow water to pass through its surface and infiltrate into the ground.

Rain Gardens: Landscaped practices that are proposed within the school grounds in underutilized landscaped areas that are designed to collect and absorb rain from parking lots and sidewalks.

Stormwater Tree Trenches: are underground storage with new tree plantings, proposed under the sidewalk and landscaped areas in the public right-of-way surrounding the schools.

ROLES AND RESPONSIBILITIES

To achieve the Parties' mutual desires, each party agrees to the following roles and responsibilities:

Party A Roles and Responsibilities shall include:

- Signing MOU with BSA outlining proposed scope of work, construction, property access, and ongoing maintenance activities.
- Committing to keeping systems in place for a minimum of 20 years from the end of construction. If systems are removed, it is expected that an alternate stormwater management practice will be constructed to provide the same volume of treatment on the site.
- Providing access to relevant site and utility files for the properties, including topographic surveys, geotechnical and environmental reports, utility plans, or any other information that may support the design of the project sites.
- Providing access to school sites, at pre-approved times, to perform site walk, geotechnical investigation, and topographic survey.
- Providing a summary of any planned improvements to school properties before design is initiated that may impact the proposed scope of work.
- Approving the final location for all proposed green infrastructure stormwater retrofits.
- Supporting development of construction schedule to meet BSA's timeline (e.g., all projects constructed by June 15, 2028). It is anticipated that the geotechnical investigation and topographic survey will need to be completed during the school year, but that on-site construction activities would occur during the summer months. It is anticipated that projects within the public right-of-way will be constructed during the school year and summer months to maintain the project schedule.
- Supporting development of construction staging plans.
- Providing a liaison for each property who can work with BSA's designers, contractors, and maintenance teams.
- Providing BSA with at least two 2 weeks' notice prior to any future activities that may impact the proposed green infrastructure retrofits, such as, but not limited to, utility trenching, site landscaping changes, or changes in site conditions such as the addition or removal of pavement.
- Providing snow removal on porous pavement surfaces using pre-approved materials and practices.
- Alerting BSA maintenance staff as to any changes in the proposed green infrastructure stormwater retrofits, such as erosion, trash collection, ponding water, or plant health.
- Committing to not storing deleterious materials such as sand, salt or fill in or on the GI installations
- Providing site access to BSA maintenance crews as necessary and with 48 hours for routine maintenance and four (4) hours for expedited maintenance of notification.
- Providing and maintaining appropriate insurances and amounts required by law for comprehensive general liability, comprehensive automotive liability, excess/umbrella liability, worker's compensation and employer's liability.

Party B Roles and Responsibilities shall include:

- Signing the MOU with Buffalo Public Schools outlining proposed scope of work, construction, property access, and ongoing maintenance activities.
- Providing project funding.
- Selecting a design engineer and site contractor(s) to design and construct the proposed green infrastructure stormwater retrofits.
- Ensuring that all proposed green infrastructure stormwater retrofits are designed in accordance with BSA and New York State design standards.
- Providing construction oversight during construction.

- Ensuring that project schedule is maintained and that projects are constructed as planned by June 15, 2028.
- Providing and maintaining appropriate insurances and amounts required by law for comprehensive general liability, comprehensive automobile liability, excess/umbrella liability, worker's compensation and employer's liability insurance.
- Providing on-going operations and maintenance of the proposed green infrastructure stormwater retrofits, including the following:
    - Monthly Maintenance Activities:
        - Review system function. Ensure systems do not have ponding water.
        - Check for evidence of invasive species. Check for tree and plant health.
        - Remove trash and debris.
    - Quarterly Activities:
        - Vacuum sweep porous asphalt parking lot.
        - Inspect for sediment build-up, clean out as needed.
    - Annual Maintenance Activities:
        - Remove and replace mulch, as needed, in landscaped practices.
        - Prune and replace dead or dying vegetation. Remove invasive species as needed.

The Parties agree to uphold their roles and responsibilities in a committed, good-faith manner.

TIMELINE

To meet grant funding requirements, all projects must be fully constructed by June 15, 2028. This will require routine coordination between BSA, Buffalo Public Schools, and the design contractor.

It is anticipated that projects will be grouped into two categories – Group A: right-of-way improvements and Group B: on-site improvements – to ensure that construction activities can continue for the right-of-way improvements while school is in session. The following is the proposed project schedule:

Description	Start Date	Duration (Weeks)	End Date
Buffalo Public School Board Approval	12/18/2024	0	12/18/2024
Notice to Proceed - Design	3/24/2025	0	3/24/2025
Public Notice for Site Work	3/25/2025	4	4/22/2025
Geotechnical Investigation and Topographic Survey	4/23/2025	12	7/16/2025
60% Design	7/16/2025	12	10/9/2025
Buffalo Sewer Review - 60% Design	10/10/2025	2	10/24/2025
90% Design	10/27/2025	8	12/22/2025
Buffalo Sewer Review - 90% Design	12/23/2025	2	1/6/2026
Final Documents and Bid Set	1/7/2026	6	2/18/2026
Bidding	2/19/2026	4	3/19/2026
Notice to Proceed – Construction	3/20/2026	12	6/12/2026
Construction Group A: Right-of-Way Improvements – no restrictions on construction Group B: On-Site Improvements – Construction to occur only when school is out of session	6/15/2026	100	5/15/2028

COMMUNICATION BETWEEN PARTIES

Communication between parties will take place monthly and/or as needed for routine maintenance.

Point of Contact for Party A

Mel L. Alston, AIA
Executive Director
P: 716-816-3748
E: MAlston@buffaloschools.org

Point of Contact for Party B

Rosaleen B. Nogle, PE, BCEE, BC.WRE
Principal Sanitary Engineer
P: 716-851-4664, Ext. 4203
E: rnogle@buffalosewer.org

Working Hours: 8AM – 4:00PM

Point(s) of Contact(s) for Each School:

Point(s) of Contact(s) for BSA Maintenance Team:

Jordan Roose
Forester
P: 716-851-4664, Ext 5349
E: jroose@buffalosewer.org

After Hours Emergency Contact for Party A

After Hours Emergency Contact for Party B:

Complaint Crew
P: 716-913-9919

AMENDMENTS

The terms of this MOU may be amended upon written approval by both original Parties and their designated representatives.

TERMS AND TERMINATION

This agreement becomes effective on the date it is signed by both Parties. It remains in force unless explicitly terminated, in writing, by both parties.

The properties included within this MOU are managed by Buffalo Public Schools and owned by the City of Buffalo. Should Buffalo Public Schools cease to require the continued use of the property, in accordance with Public Authorities Law Chapter 43-A, Article 5, Title 8 Section 1182, the city may dedicate the land for the uses and purposes of BSA for continued Green Infrastructure stormwater management.

Both Parties may terminate this MOU by means of signing a termination addendum upon 30 days' written notice to the other parties.

The undersigned Parties acknowledge and agree to this MOU:

SIGNATURES

FOR: Buffalo Sewer Authority	DATE	
Signature	Rosaleen Nogle	Principal Sanitary Engineer
FOR: Buffalo Sewer Authority	DATE	
Signature	Charles Riley	Executive Secretary
FOR: Buffalo Public Schools	DATE	
Signature	Mel Alston	Executive Director

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ATTACHMENT C

Full Environmental Assessment Form
Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: Sidney St and Lark St -CSO053_1.4 SP336B Real-Time Controls (Sidney-Lark RTC)		
Project Location (describe, and attach a general location map): At the intersection of Sidney St. and Lark St., Buffalo, NY 14211		
Brief Description of Proposed Action (include purpose or need): The Sidney-Lark RTC will be an underground control structure connecting the Humboldt Parkway Sewer and the Scajaquada Tunnel Interceptor. It will be situated at the intersection of Humboldt Parkway and Sidney Street, utilizing properties owned by the City of Buffalo at Sidney Street and Lark Street to house electrical components. The design includes a new 48" gravity sewer running east from the Humboldt Parkway Sewer, then north on Lark Street to complete the interconnection. This sewer will connect to the Scajaquada Tunnel Interceptor via a drop shaft approximately 400 feet south of Northland Avenue and Lark Street, at a depth of approximately 35 to 40 feet below grade. The installation is anticipated to be executed via open cut. The RTC will feature a modulating gate connected to SCADA to balance flow between the Humboldt Parkway Sewer and the Scajaquada Tunnel Interceptor during rain events. The design will encompass: Cast-in-place diversion chamber, Remote monitoring and control systems for automated operation and maintenance, Civil-site improvements (stormwater management, landscaping, erosion and sediment control, water main replacement), Exterior electrical control panels, Water-tight tie-ins/connections to the existing sewer system, maintenance or traffic, and drop shaft.		
Name of Applicant/Sponsor: Bufalo Sewer Authority	Telephone: 716-851-5664 Ext. 4203 E-Mail: rnogle@buffalosewer.org	
Address: 65 Niagara Square, City Hall Room 1038		
City/PO: Buffalo	State: NY	Zip Code: 14202
Project Contact (if not same as sponsor; give name and title/role): Rosaleen B. Nogle, PE, BCEE, PMP	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor):	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☑ Yes ☐ No
If Yes, what is the zoning classification(s) including any applicable overlay district?
The area is classified as N-3R residential through the City of Buffalo Property viewer

b. Is the use permitted or allowed by a special or conditional use permit? ☐ Yes ☑ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☑ No
If Yes,
i. What is the proposed new zoning for the site?

C.4. Existing community services.

a. In what school district is the project site located? Buffalo City School District

b. What police or other public protection forces serve the project site?
City of Buffalo Police District E

c. Which fire protection and emergency medical services serve the project site?
Northland Hospital Opportunity Zone, Buffalo Fire Department Engine 33

d. What parks serve the project site?

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Municipal/utility work

b. a. Total acreage of the site of the proposed action? 0.5 acres
b. Total acreage to be physically disturbed? 0.5 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 0 acres

c. Is the proposed action an expansion of an existing project or use? ☑ Yes ☐ No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % Units: Utility Installation

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☑ No
If Yes,
i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)
ii. Is a cluster/conservation layout proposed? ☐ Yes ☑ No
iii. Number of lots proposed?
iv. Minimum and maximum proposed lot sizes? Minimum Maximum

e. Will the proposed action be constructed in multiple phases? ☐ Yes ☑ No
i. If No, anticipated period of construction: 60 months
ii. If Yes:
- Total number of phases anticipated
- Anticipated commencement date of phase 1 (including demolition) month year
- Anticipated completion date of final phase month year
- Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases:

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

iii. Will the proposed action cause or result in disturbance to bottom sediments? ☐Yes ☐No
If Yes, describe:

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? ☐Yes ☐No
If Yes:

- acres of aquatic vegetation proposed to be removed:
- expected acreage of aquatic vegetation remaining after project completion:
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access):
- proposed method of plant removal:
- if chemical/herbicide treatment will be used, specify product(s):

v. Describe any proposed reclamation/mitigation following disturbance:

c. Will the proposed action use, or create a new demand for water? ☐Yes ☑No
If Yes:

i. Total anticipated water usage/demand per day: _____ gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☐Yes ☐No
If Yes:

- Name of district or service area:
- Does the existing public water supply have capacity to serve the proposal? ☐Yes ☐No
- Is the project site in the existing district? ☐Yes ☐No
- Is expansion of the district needed? ☐Yes ☐No
- Do existing lines serve the project site? ☐Yes ☐No

iii. Will line extension within an existing district be necessary to supply the project? ☐Yes ☐No
If Yes:

- Describe extensions or capacity expansions proposed to serve this project:
- Source(s) of supply for the district:

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐Yes ☐No
If, Yes:

- Applicant/sponsor for new district:
- Date application submitted or anticipated:
- Proposed source(s) of supply for new district:

v. If a public water supply will not be used, describe plans to provide water supply for the project:

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☐Yes ☑No
If Yes:

i. Total anticipated liquid waste generation per day: _____ gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each):

iii. Will the proposed action use any existing public wastewater treatment facilities? ☑Yes ☐No
If Yes:

- Name of wastewater treatment plant to be used: Bird Island WWTP
- Name of district: Buffalo
- Does the existing wastewater treatment plant have capacity to serve the project? ☑Yes ☐No
- Is the project site in the existing district? ☑Yes ☐No
- Is expansion of the district needed? ☐Yes ☑No

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? ☐Yes ☑No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? ☐Yes ☑No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? ☐Yes ☑No

If Yes:

i. When is the peak traffic expected (Check all that apply): ☐Morning ☐Evening ☐Weekend ☐Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? ☐Yes ☐No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe:

vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? ☐Yes ☐No

vii Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? ☐Yes ☐No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? ☐Yes ☐No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? ☐Yes ☑No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other):

iii. Will the proposed action require a new, or an upgrade, to an existing substation? ☐Yes ☑No

l. Hours of operation. Answer all items which apply.

i. During Construction:

- Monday - Friday: 8 am - 4 pm
- Saturday: _____
- Sunday: _____
- Holidays: _____

ii. During Operations:

- Monday - Friday: N/A
- Saturday: N/A
- Sunday: N/A
- Holidays: N/A

s. Does the proposed action include construction or modification of a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

iii. Specify amount to be handled or generated _____ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☐ Yes ☐ No

If Yes: provide name and location of facility: _____

If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site.

☑ Urban ☐ Industrial ☐ Commercial ☐ Residential (suburban) ☐ Rural (non-farm)
☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other (specify): _____

ii. If mix of uses, generally describe:

b. Land uses and covertypes on the project site.

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	0.5	0.5	N/A
• Forested	0	0	N/A
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	0	0	N/A
• Agricultural (includes active orchards, field, greenhouse etc.)	0	0	N/A
• Surface water features (lakes, ponds, streams, rivers, etc.)	0	0	N/A
• Wetlands (freshwater or tidal)	0	0	N/A
• Non-vegetated (bare rock, earth or fill)	0	0	N/A
• Other Describe: _____	0	0	N/A

v. Is the project site subject to an institutional control limiting property uses? ☐ Yes ☑ No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? ☐ Yes ☐ No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? >6.5 feet

b. Are there bedrock outcroppings on the project site? ☐ Yes ☑ No
If Yes, what proportion of the site is comprised of bedrock outcroppings? _____ %

c. Predominant soil type(s) present on project site: UrA-Urand Land, Lima Complex _____ %
_____ %
_____ %

d. What is the average depth to the water table on the project site? Average: 1.5 - 2 feet

e. Drainage status of project site soils:
☐ Well Drained: _____ % of site
☑ Moderately Well Drained: 100 % of site
☐ Poorly Drained _____ % of site

f. Approximate proportion of proposed action site with slopes:
☑ 0-10%: 100 % of site
☐ 10-15%: _____ % of site
☐ 15% or greater: _____ % of site

g. Are there any unique geologic features on the project site? ☐ Yes ☑ No
If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☐ Yes ☑ No

ii. Do any wetlands or other waterbodies adjoin the project site? ☑ Yes ☐ No

If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☑ Yes ☐ No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name 837-117 C Classification C
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name _____ Approximate Size _____
- Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☐ Yes ☑ No

If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? ☐ Yes ☑ No

j. Is the project site in the 100-year Floodplain? ☐ Yes ☑ No

k. Is the project site in the 500-year Floodplain? ☐ Yes ☑ No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☐ Yes ☑ No
If Yes:

i. Name of aquifer: _____

c. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? ☑ Yes ☐ No

If Yes:

i. Nature of historic/archaeological resource: ☐ Archaeological Site ☑ Historic Building or District

ii. Name: Hamlin Park Historic District, Faith Mission Baptist Church

iii. Brief description of attributes on which listing is based:

f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? ☐ Yes ☑ No

g. Have additional archaeological or historic site(s) or resources been identified on the project site? ☐ Yes ☑ No

If Yes:

i. Describe possible resource(s):

ii. Basis for identification:

h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? ☐ Yes ☑ No

If Yes:

i. Identify resource:

ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.):

iii. Distance between project and resource: _____ miles.

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? ☐ Yes ☑ No

If Yes:

i. Identify the name of the river and its designation:

ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? ☐ Yes ☑ No

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name Rosaleen Nogle, PE Date _____

Signature _____ Title _____

PRINT FORM

E.2.o. [Endangered or Threatened Species]	No
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Yes - Digital mapping data for archaeological site boundaries are not available. Refer to EAF Workbook.
E.3.e.ii [National or State Register of Historic Places or State Eligible Sites - Name]	Hamlin Park Historic District, Faith Mission Baptist Church
E.3.f. [Archeological Sites]	No
E.3.i. [Designated River Corridor]	No

jpaananen@buffalony.gov
920 City Hall
65 Niagara Square
Buffalo, NY 14202

New York State Historic Preservation Office (consultation completed online)
1 Delaware Avenue North, Cohoes, NY 12047

U.S. Fish and Wildlife Service (consultation completed online)
1849 C Street, NW
Washington, DC 20240

City of Buffalo Division of Real Estate
Howard Grynspan
HGrynspan@buffalony.gov

MINUTES OF THE REGULAR MEETING

OF THE

BUFFALO SEWER AUTHORITY

March 12, 2025

BUFFALO SEWER AUTHORITY

REGULAR MEETING
March 12, 2025
9:00 A.M.

Buffalo City Hall, 65 Niagara Square Room 1038
Teleconference +1 917- 933-2166, ID #159 504 441#

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	Roll Call	
1	Motion to Adopt the Minutes of February 19, 2025	59205
2	Approval of Consent Agenda	59206-12
	A. Informative: Temporary Investments	
	B. Informative: Reallocation of Funds	
	C. Claim Against Liability and Casualty Reserve Fund	
	D. Request For Leave of Absence	
	E. Amendment to Schedule of Job Classification Plan	
3	Preliminary Outline of Operating Budget for The Fiscal Year Commencing July 1, 2025	59213-16
4	The Supplemental Sewer System Revenue Bond Resolution Sewer System Revenue Bonds, Series 2025A	59217-37
5	Authorization to Enter into a Memorandum of Understanding with The Buffalo Municipal Housing Authority Regarding the Installation of Green Infrastructure Practices	59238-39
6	Authorization to Enter into a Memorandum of Understanding with The Buffalo Public Schools Regarding the Installation of Green Infrastructure Practices	59240-41
7	Change Order No. 1 – Contract No. 82000062 Arcadis Engineering Services for Waste Heat Boiler Rehabilitation	59242-43

8	Authorization to Purchase a Skid Steer Under State Contract	59244
9	Authorization to Purchase Crew Cab and Chassis Under the Onondaga Bid 106-19 2025	59245
10	Change Order No. 1 – Purchase Order No. 22500547	59246-48
11	Declaration of Lead Agency for State Environmental Quality Review for Sidney-Lark RTC	59249-51
12	Additional Work Phase Contract No. 82000056 Cornelius Creek CSO 055 Backwater Gate Flood Mitigation Project	59252
13	Adjournment of Meeting	59253

ATTACHMENTS & EXHIBITS

Attachment A: Memorandum Of Understanding Between Buffalo Sewer Authority and Buffalo Municipal Housing Authority

Attachment B: Memorandum Of Understanding Between Buffalo Sewer Authority and Buffalo Public Schools

Attachment C: SEQR
Project: Sidney St and Lark St -CSO053_1.4 SP336B Real -Time Controls (Sidney-Lark RTC)

Exhibit A: Contract Of Purchase

Exhibit B: Preliminary Official Statement

Exhibit C: Continuing Disclosure Agreement

CALL OF THE ROLL

Present:	Herbert Bellamy, Jr.	Chairman of Board
	Christopher Roosevelt	Vice Chairman of the Board
	Eleanor Petrucci	Secretary of the Board
	Charles Riley	Executive Secretary
	Cheryl Colston	General Counsel
	Adam Sassone	Secretary to General Manager
	Alexander Emmerson	Treatment Plant Superintendent
	Rosaleen Nogle, P.E.	Assistant Principal Engineer
	Joel Renzoni	Director of Sewer Maintenance
	Paul Harris	Superintendent of Mechanical Maintenance
	Timothy Blake	Senior Instrument Technician
	LaToya Cunningham	Special Assistant
	Desiree Briggs	Preventive Maintenance Coordinator
	Regina Harris	Senior Engineer
	Dax Blake	Arcadis
	Nadia Mugisha, P.E.	Arcadis
	Laura Surdej	Erie County Department of Sewerage
	Carol Burns	Executive Assistant to Comptroller

The meeting was called to order at 9:15 AM. A quorum was present.

ITEM NO. 1

Motion to Adopt the Minutes of the Meeting of February 19, 2025

MOTION TO ADOPT

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

ITEM NO. 2

APPROVAL OF CONSENT AGENDA

CONTENTS

A. Informative: Temporary Investments

B. Informative: Reallocation of Funds

C. Claim Against Liability and Casualty Reserve Fund

D. Request For Leave of Absence

E. Amendment To Schedule of Job Classification Plan

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of March 12, 2025

2-A

INFORMATIVE: TEMPORARY INVESTMENTS (CERTIFICATES OF DEPOSIT AND TREASURY BILLS)

As of January 31st, 2025

ISSUE DATE	MATURITY DATE	TOTAL DAYS	AMOUNT	BANK	RATE	INTEREST AMOUNT
CONSTRUCTION/CAPITAL IMPROVEMENT FUND						
31-Jul-12	**MONEY MARKET**		$3,372,631.47	Key	0.01%	Public NOW
30-Jan-25	13-Feb-25	14	$7,499,671.97	Key Banc Capital	4.22%	$ 12,328.03
31-Jan-25	27-Feb-25	27	$19,499,236.14	Key Banc Capital	4.21%	$ 61,763.86
			$30,371,539.58			
LIABILITY AND CASUALTY RESERVE FUND						
31-Jul-12	**MONEY MARKET**		$243,556.90	Key	0.01%	Public NOW
16-Jan-25	17-Apr-25	91	$779,673.90	Key Banc Capital	4.18%	$8,326.10
			$1,023,230.80			
OPERATING FUND						
31-Jul-12	**SUPER NOW**		**$3,433,143.58**	Key	0.01%	Public NOW
TRUST & AGENCY FUND						
31-Jul-12	**SUPER NOW**		**$29,044.60**	Key	0.01%	Public NOW
SURPLUS FUND						
			$625.78	Wilmington U.S. Treasury	4.79%	
21-Nov-24	15-May-25	175	$10,004,262.50	Key Banc Capital	4.50%	$ 223,737.50
			$10,004,888.28			
NET REVENUE FUND						
			$229,745.25	Wilmington U.S. Treasury		
31-Oct-24	25-Feb-25	117	$7,998,401.65	M&T Securities	4.42%	$116,598.35
28-Jan-25	27-Mar-25	58	$3,490,216.27	Key Banc Capital	4.20%	$23,783.73
			$11,718,363.17			

BSA 2021 EIB FUND

			$324,902.08	Cash	0.00%	
14-Nov-24	8-May-25	175	$32,615,964.44	Key Banc Capital	4.26%	$690,035.56
12-Dec-24	5-Jun-25	175	$9,982,955.78	M&T Securities	4.16%	$206,044.22
19-Dec-24	5-Jun-25	168	$10,101,004.00	M&T Securities	4.14%	$198,996.00
			$53,024,826.30			

DEBT RESERVE FUND

				Series J		
02-Jul-14	13-Nov-33	7076	**$278,762.17**	UST State/Local Govt	2.70%	
				Series K		
02-Jul-14	15-Feb-33	6803	**$194,396.92**	UST State/Local Govt	2.70%	
				Series L		
12-Nov-15	1-Oct-35	7263	**$689,547.00**	UST State/Local Govt	2.44%	
				Series M		
27-Jun-14	1-May-44	10901	**$585,063.94**	UST State/Local Govt	2.70%	
				Series N		
15-Nov-12	15-Apr-32	7091	**$2,167,157.00**	UST State/Local Govt	2.42%	
			EFC 2021			
			$563.64	Wilmington U.S. Treasury	4.79%	
22-Aug-24	13-Feb-25	175	$349,820.69	Key Banc Capital	4.70%	$8,179.31
			$350,384.33			

DSF PRIN &INT

$0.01 Wilmington Fund

DSF 2021 EIB

$957,260.91 Wilmington Fund 4.79%

RECEIVE & FILE

Board Meeting of March 12th, 2025

2-B

INFORMATIVE: REALLOCATION OF FUNDS

The following budgetary transfers have been made to cover unforeseen shortages. These transfers do not change the total amount of the Buffalo Sewer Authority's operating budget.

Wastewater Treatment Plant

02/03/2025	00530103 YARD Electric Light & Power	-$725.00	00410103 HAMB Electric Light & Power	$725.00
02/03/2025	00300103 BLOW Electric Light & Power	-$8,300.00	00390103 HAMB Drain Float Nat Gas	$8,300.00
02/03/2025	00330105 FINA Chemical and Gases	-$304,145.00	00360103 DEWA Water	$304,145.00
02/24/2025	00370105 CENT. Equipment Maintenance	-$3,448.50	00330105 FINA Laboratory Supplies	$3,448.50
02/24/2025	00270105 GAS Equipment Maintenance	-$5,000.00	00520105 Main Gasoline and Lubricants	$5,000.00

Sewer Maintenance

02/19/2025	00650106 SWRM Ed Lic & Training	-$545.01	00670105 SWRC Small Tools	$545.01
02/19/2025	00650106 SWRM Ed Lic & Training	-$2,096.40	00650107 SWRM Office Equipment	$2,096.40
02/24/2025	00660105 SWRR Road & Highway Main	-$36,676.41	00690107 AUTO Cars & Other Vehicle	$36,676.41

RECEIVE & FILE

Board Meeting of March 12, 2025

2-C

CLAIM AGAINST LIABILITY AND CASUALTY RESERVE FUND

WHEREAS: Gloria Stepney-Heard filed a Notice of Claim for property damage arising out of an alleged sewer basement back up at or near 545 Masten Avenue in the City of Buffalo on or about January 14, 2025.

WHEREAS: After reviewing this matter, the General Counsel agrees that the final settlement amount of $3,384.95 is in the best interest of the Buffalo Sewer Authority.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes payment to Gloria Stepney-Heard in the final settlement amount of $3,384.95 and in full and complete settlement of this matter. This claim will be paid out of the Liability and Casualty Reserve Fund.

2-D

REQUEST FOR LEAVE OF ABSENCE

WHEREAS: Victor Orlando a Wastewater Operator I, has requested a non-medical leave of absence beginning December 9,2024, and extending until April 1, 2025.

WHEREAS: The Executive Secretary has reviewed this request and recommends approving this leave of absence request for a period of four (4) months.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby grants Victor Orlando a four (4) month unpaid non-medical leave of absence without pay beginning December 9,2024 and extending until April 1, 2025.

2-E

AMENDMENT TO SCHEDULE OF JOB CLASSIFICATION PLAN

WHEREAS: There is a need to modify the Job Classification Plan.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority approves the addition of the following positions to the Job Classification Plan:

One (1) Laborer II	00530161	411001

ITEM NO. 3

PRELIMINARY OUTLINE OF OPERATING BUDGET FOR THE FISCAL YEAR COMMENCING JULY 1, 2025

A proposed Operating Budget, with full details, for the fiscal year beginning July 1, 2025, will be presented for formal consideration by your Honorable Body at the next scheduled meeting on April 9, 2025. This proposed budget will be in an amount not to exceed $79,400,000 which is a $5,000,000 increase from the current budget of $74,400,000.

At this time, an outline of the proposed budget is submitted for your tentative approval. Once approved, we will proceed in the preparation of a formal budget document complete with comparison charts and exhibits. Attached to this outline are the following exhibits:

A Revenue Estimate and comparison for the years 2022-2023 to 2025-2026 Proposed;

A comparison of Appropriation by Division for the years 2022-2023 to 2025-2026 Proposed;

Capital Budget Projects for 2025-2026.

The Proposed Schedule of Sewer Rents and the final budget appropriations for the 2025-2026 fiscal year will be detailed at the scheduled meeting of April 9, 2025.

WHEREAS: The preliminary budget presented herein reflects a balanced plan to fund the necessary operations of the Buffalo Sewer Authority for the fiscal year beginning July 1, 2025.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the General Manager to proceed in preparing a detailed budget not to exceed $79,400,000 to be submitted to this Body at the meeting of April 9, 2025.

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of March 12, 2025

BUFFALO SEWER AUTHORITY

REVENUE ESTIMATE
2025-2026 PRELIMINARY BUDGET

Revenue	2022-2023 Actual	2023-2024 Actual	2024-2025 Budget	2025-2026 Budget
Assessment Sewer Rents	$12,106,289	$19,640,080	$24,957,600	$29,947,600
Water Use Sewer Rents	26,044,993	24,445,837	25,136,900	24,925,000
Outside City-Sewer Connection	12,665,958	20,003,617	15,000,000	16,500,000
Industrial Waste	5,133,775	4,926,821	3,875,000	4,070,000
Interest Income	4,954,854	6,504,595	4,125,000	3,145,200
Miscellaneous	1,283,502	3,899,420	1,305,500	812,200
Total Revenues	**$62,189,371**	**$79,420,370**	**$74,400,000**	**$79,400,000**

BUFFALO SEWER AUTHORITY
APPROPRIATIONS BY DIVISION
2025-2026 PRELIMINARY BUDGET

Division	2022-2023 Actual	2023-2024 Actual	2024-2025 Budget	2025-2026 Budget
General Offices	$1,824,940	$1,950,787	$2,135,044	$2,335,993
Wastewater Treatment Facility	27,151,593	30,193,647	34,235,402	35,011,426
Industrial Waste	713,800	1,097,544	1,250,243	1,504,637
Engineering	1,113,334	1,289,895	2,443,491	3,959,565
Sewer Maintenance	3,934,133	5,125,090	7,439,374	6,732,456
Miscellaneous Financial Chgs	5,197,275	4,604,761	5,989,690	5,649,690
Fringe Benefits	10,092,292	10,533,431	12,296,500	12,607,500
Debt Service & Reserve	6,246,309	6,203,338	8,610,256	11,598,733
Total Appropriations	**$56,273,676**	**$60,998,493**	**$74,400,000**	**$79,400,000**

BUFFALO SEWER AUTHORITY
CAPITAL PROJECTS
2025 - 2026 PRELIMINARY BUDGET

PROJECT TITLE:	**ESTIMATED COST**
TREATMENT PLANT:	
RWW/SWW Pump Station Improvement Project Phase 1	$7,000,000
Waste Heat Boilers	2,277,290
Ash Exhauster/Silo/Ancillary Ductwork	1,500,000
Replace Gas Compressors/Building & Piping	300,000
Engineering Term Contracts	1,000,000
Digester Cleaning	200,000
Replace AUH 7-14/Blower Building	500,000
Facility Controls -Ovation Hardware Upgrade	1,200,000
Blower Air Supply Line Evaluation & Replacement	1,000,000
IWS Waste Hauler Facilities - Including South Buffalo Pump Station	1,300,000
Seepage And Subsidence Phase 2	2,000,000
Duct Cleaning of all Building AHUs	150,000
Treatment Plant Interiors Renovation	1,000,000
Interior/Exterior Lighting	500,000
Protected Water Secondary Sand Filter System	150,000
Fine Screen Room Rehab	2,000,000
Incinerator #1/ WHRB #1 Upgrade	2,000,000
SCRS Rehabilitation/Rewet/Holding Tank	1,000,000
Power System Survey and Implementation	5,000,000
Plant Wide Pipe Evaluation	200,000
Laboratory Rehabilitation	250,000
Electrical Sub-Metering and Distribution Modifications	100,000
Structural Phase 3-Megastructure Additional Stairways	100,000
South Buffalo Pump Station	7,000,000
NFA Phase I	5,000,000
Primary System Engineering (NFA Phase II.A)	5,000,000
Primary System Rehabilitation (NFA Phase II.B)	7,000,000
Secondary Treatment Rehabilitation (NFA Phase III)	2,000,000
DCS Engineering Services	1,000,000
TREATMENT PLANT TOTAL	**$57,727,290**
COLLECTION SYSTEM:	
Program Management	$10,000,000
Delavan Trunk Sewer Improvements at Spillman Place	1,500,000
Scajaquada Creek & Black Rock Canal Smart Sewer Project	2,000,000
Breckenridge St. CSO010_1	7,000,000
Delavan Trunk Sewer Improvements at Florida Street	882,828
CSO-053 Various SPP Modifications	1,800,000
Genesee & Kearns SPP341A Modification	3,000,000

Sidney & Lark OLS	1,500,000
Edison Martha OLS	1,500,000
CSO014_1.1 SPP206A&B RTC	300,000
System_2 Schiller Park OLS	960,000
System_2_3 SPP339 Modification	850,000
System_2_4 Schiller Park OLS SPP340 Modification	850,000
SPP304 Modification	100,000
CSO064_1.1 ILS	200,000
SPP 137 Modification	50,000
Hertel & Smith Backwater	200,000
Fruit Belt	3,023,059
Wet Weather	300,000
Permeable Pavement	75,000
Green Infrastructure Grant Program	500,000
Syphon Resiliency	2,000,000
Swan Trunk Cleaning	1,500,000
Flood Mitigation	1,500,000
Engineering Term Contracts	500,000
Swan Trunk Lining/Repairs	500,000
Scajaquada Creek	165,000
Green Infrastructure Programmatic Support	1,000,000
Eddie Dawson, Genesee, Lincoln & MLK Jr. Parks GI Retrofit	300,000
Hennepin Park Green Infrastructure Retrofit FID #8	497,921
Third-Party Verification for Environmental Impact Bond	150,000
Raincheck 2.0 GI Opportunity Projects	18,000,000
CSO053_12.2 Jefferson Ave GI	400,000
CSO053_12.1 Jefferson Ave GI	100,000
COLLECTION SYSTEM TOTAL	**$63,203,808**
GRAND TOTAL	**$120,931,098**

ITEM NO. 4

THE SUPPLEMENTAL SEWER SYSTEM REVENUE BOND RESOLUTION SEWER SYSTEM REVENUE BONDS, SERIES 2025A

EXTRACT OF MINUTES
Meeting of the Buffalo Sewer Authority
of the City of Buffalo, County of Erie, New York
March 12, 2025

***

A regular meeting of the Buffalo Sewer Authority of the City of Buffalo, in the County of Erie, New York, was held at City Hall, 65 Niagara Square, Buffalo, New York, on March 12, 2025, at 9:00 o'clock A.M. (Prevailing Time).

There were present: 15

Members: 3

There were absent:0

Also present: 0

Member MRS. PETRUCCI **offered the following resolution and offered its adoption:**

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of March 12, 2025

BUFFALO SEWER AUTHORITY

Supplemental Sewer System Revenue Bond Resolution
Authorizing
Up To $52,000,000 Sewer System Revenue Bonds, Series 2025A

Adopted: March 12, 2025

BUFFALO SEWER AUTHORITY

Supplemental Sewer System Revenue Bond Resolution
Authorizing
Up To $52,000,000 Sewer System Revenue Bonds, Series 2025A

BE IT RESOLVED by the Board of the Buffalo Sewer Authority (the "Authority") as follows:

ARTICLE I

DEFINITIONS AND AUTHORITY

Section 101. Short Title. This resolution may hereafter be cited by the Authority as the Supplemental Sewer System Revenue Bond Resolution, Series 2025A. It is referred to herein as this "Supplemental Resolution."

Section 102. Definitions.

(A) All terms defined in Section 102 of the resolution adopted by the Authority on May 26, 2021 and entitled "Amended and Restated Sewer System Revenue Bond Resolution" (as amended and supplemented, the "General Resolution") shall have the same meanings, respectively, in this Supplemental Resolution as such terms are given in said Section 102 of the General Resolution.

(B) In this Supplemental Resolution:

"Code" means the Internal Revenue Code of 1986, as amended.

"Contract of Purchase" means the Contract of Purchase described in Section 302 hereof.

"Series 2025A Bonds" means the Sewer System Revenue Bonds, Series 2025A, authorized by Article II hereof.

"Series 2025A Project" means, collectively, the projects described in Section 203 hereof.

"Supplemental Resolution" means this Supplemental Sewer System Revenue Bond Resolution, Series 2025A.

"Underwriter" means Samuel A. Ramirez & Co., Inc.

Section 103. Authority for This Supplemental Resolution. This Supplemental Resolution is adopted pursuant to the provisions of the Act and the General Resolution.

Section 104. Resolution to Constitute Contract. In consideration of the purchase and acceptance of the Series 2025A Bonds by those who shall own the same from time to time, the provisions of this Supplemental Resolution and the General Resolution (including any amendments thereto) shall be

a part of the contract of the Authority with the owners of Series 2025A Bonds, and shall be deemed to be and shall constitute a contract among the Authority, the Trustee and the owners from time to time of the Series 2025A Bonds.

ARTICLE II

AUTHORIZATION AND TERMS OF SERIES 2025A BONDS

Section 201. Supplemental Resolution. This Supplemental Resolution is supplemental to, and is adopted in accordance with, Article II and Article VIII of the General Resolution.

Section 202. Principal Amount, Designation, and Series. Pursuant to the provisions of the General Resolution, a Series of Bonds entitled to the equal benefit, protection, and security thereof are hereby authorized and shall be issued in an aggregate principal amount of up to $52,000,000, as determined pursuant to the provisions of Article III hereof and as set forth in the Contract of Purchase, and shall be designated as, and shall be distinguished from the Bonds of all other Series by the title, "Sewer System Revenue Bonds, Series 2025A".

Section 203. Purposes. The Series 2025A Bonds are issued to finance the design, rehabilitation and construction of certain projects (collectively, the "Series 2025A Project") consisting of:

(A) For the Raw Wastewater Pump Station, the following upgrades (including any related work necessary to complete these upgrades): (i) replacement of vacuum priming system; (ii) rehabilitation of pumps numbers 5 and 4, motors, and valves; (iii) rehabilitation of pump number 4 impeller and eddy current drive; (iv) rehabilitation of pump number 6 valve; (v) rehabilitation or replacement of roof; (vi) installation of updated electrical and control systems; and (vii) rehabilitation of pump number 2, including motor (originally the motor from pump number 5) and valve (once complete, swap motors to their original pump).

(B) For the Settled Wastewater Pump Station, the following upgrades (including any related work necessary to complete these upgrades): (i) rehabilitation of pump numbers 1 and 5, including pump impeller, valve, motor and eddy current drive; (ii) rehabilitation of pumps numbers 3 and 6; (iii) rehabilitation or replacement of the SWWPS building roof; (iv) improvement of HVAC systems for safety and operational efficiency; and (v) installation of updated electrical and control systems.

(C) For the South Buffalo Pump Station, the following upgrades (including any related work necessary to complete these upgrades): (i) complete rehabilitation of pump numbers 1, 3, and 4 and partial rehabilitation of pump number 2 as well as improvements to the seal water system; (ii) modifications to the discharge junction chamber to improve pump isolation and access to the interior of the structure; (iii) structural rehabilitation throughout the station, a new platform for removal of major equipment, civil improvements for access out the north side of the building, and replacement of the low and high roofing systems; (iv) complete replacement of the HVAC system; (v) rehabilitation of the plumbing system, including replacement of corroded potable water piping, bathroom fixtures, hose bibs, and hot water heater; (vi) replacement of the variable frequency drives for each pump; and (vii) installation of a new control system, including enhanced communication with the Bird Island Wastewater Treatment Facility.

(D) For the Fruit Belt Sewer, the following upgrades (including any related work necessary to complete these upgrades): installation of approximately 20,000 linear feet of ultraviolet cured in place pipe lining of existing sewers together with approximately 30

spot repairs and the replacement of 200 linear feet of sewer, including cleaning and televising to verify proper installation.

Section 204. Date, Maturities, and Interest Rates. (A) The Series 2025A Bonds shall be dated April 23, 2025, and shall bear interest from their dated date. The Series 2025A Bonds shall mature on June 15 of each of the years and in the principal amounts determined pursuant to the provisions of Article III hereof and as set forth in the Contract of Purchase, and shall bear interest at the rates determined pursuant to the provisions of Article III hereof and as set forth in the Contract of Purchase, payable semiannually on June 15 and December 15 of each year commencing December 15, 2025, until maturity or prior redemption. Interest on the Series 2025A Bonds accrues at fixed rates throughout the terms of the respective Series 2025A Bonds as set forth in the Contract of Purchase.

(B) Interest on the Series 2025A Bonds shall be computed on the basis of a 360-day year of twelve 30-day months. Notwithstanding anything herein to the contrary, the interest rate borne by the Series 2025A Bonds shall not exceed the maximum permitted by law.

Section 205. Form, Denominations, Numbers, and Letters. The Series 2025A Bonds maturing in any particular year shall be issued in the form of fully registered bonds, in the denomination of $5,000 or any multiple thereof not exceeding the aggregate principal amount of Series 2025A Bonds maturing in such year.

Section 206. Registration and Transfer of the Series 2025A Bonds. (A) The Series 2025A Bonds shall be initially issued in the form of a separate single authenticated fully registered bond in the amount of each separate stated maturity of the Series 2025A Bonds in the registry books of the Authority in the name of Cede & Co., as nominee of The Depository Trust Company, New York, New York ("DTC" or the "Securities Depository"), the securities depository with respect to the Series 2025A Bonds, and the Series 2025A Bonds will be deposited with DTC to be held in trust until maturity. Purchases of ownership interests in the Series 2025A Bonds will be made in book-entry form in denominations of $5,000 or any integral multiples thereof. Any Authorized Officer is hereby authorized to enter into an agreement with the Securities Depository for the Series 2025A Bonds in order to carry out the provisions of this Supplemental Resolution with respect to the use of the Securities Depository. Beneficial owners of the Series 2025A Bonds will not receive certificates representing their interest in the Series 2025A Bonds. Unless the Authority determines otherwise, transfers or exchanges of ownership interests in the Series 2025A Bonds may be accomplished via book-entry transactions only, as recorded through the book-entry system established and maintained by DTC or a successor depository. Any provisions of the General Resolution inconsistent with book-entry-only Bonds shall not be applicable to the Series 2025A Bonds.

(B) The Authority and the Trustee shall have no responsibility or obligation to any participant or to any beneficial owner. Without limiting the immediately preceding sentence, the Authority and the Trustee shall have no responsibility or obligation with respect to (i) the accuracy of the records of the Securities Depository, its nominee, or any participant with respect to any ownership interest in the Series 2025A Bonds, (ii) the delivery to any participant, any beneficial owner or any other person, other than the nominee or Securities Depository, of any notice with respect to the Series 2025A Bonds, including any notice of redemption, or (iii) the payment to any participant, any beneficial owner or any other person, other than the nominee or Securities Depository, of any amounts with respect to the principal of or premium, if any, or interest on the Series 2025A Bonds. The Authority and the Trustee may treat as and deem the nominee or Securities Depository to be the absolute owner of each Series 2025A Bond for the purpose of payment of the principal of and premium, if any, and interest on such Series 2025A Bond, for

the purpose of giving notices of redemption and other matters with respect to such Series 2025A Bond, for the purpose of registering transfers with respect to such Series 2025A Bonds and for all other purposes whatsoever. The Trustee shall pay all principal of and premium, if any, and interest on the Series 2025A Bonds only to or upon the order of the nominee or Securities Depository, and all such payments shall be valid and effective to fully satisfy and discharge the Authority's obligation with respect to the principal of and premium, if any, and interest on the Series 2025A Bonds to the extent of the sum or sums so paid. No person other than the nominee or Securities Depository shall receive an authenticated Series 2025A Bond evidencing the obligation of the Authority to make payments of principal of and premium, if any, and interest pursuant to this Supplemental Resolution. Upon delivery by the nominee or Securities Depository to the Trustee of written notice to the effect that the Securities Depository has determined to substitute a new nominee in place of the existing nominee, the Authority shall issue and the Trustee shall authenticate and deliver a new registered bond to the new nominee in exchange for each bond surrendered which was registered in the name of the old nominee to such new nominee of the Securities Depository.

(C) Upon receipt by the Authority and the Trustee of written notice from the Securities Depository to the effect that the Securities Depository is unable or unwilling to discharge its responsibilities and no substitute depository willing to undertake the functions of the Securities Depository hereunder can be found which is willing and able to undertake such functions upon reasonable and customary terms, then the Series 2025A Bonds shall no longer be restricted to being registered in the registry books of the Authority kept by the Trustee in the name of the nominee of the Securities Depository, but may be registered in whatever name or names the beneficial owners transferring or exchanging Series 2025A Bonds shall designate, in accordance with the provisions of this Supplemental Resolution. Notwithstanding the foregoing, the Authority will use reasonable best efforts to identify a suitable securities depository willing to undertake the functions of the Depository upon reasonable and customary terms.

(D) In the event the Authority determines that it is in the best interest of the beneficial owners that they be able to obtain Series 2025A Bond certificates, the Authority may notify the Securities Depository and the Trustee, whereupon the nominee or Securities Depository will notify the participants of the availability through the nominee or Securities Depository of Series 2025A Bond certificates. In such event, the Authority shall issue and the Trustee shall authenticate, transfer and exchange Series 2025A Bond certificates, as requested to the Securities Depository and any other Bondholders in appropriate amounts, and whenever the Securities Depository requests the Authority and the Trustee to do so, the Trustee and the Authority will cooperate with the Securities Depository by taking appropriate action after reasonable notice (i) to make available one or more separate certificates evidencing the Series 2025A Bonds to any nominee or Securities Depository participant having Series 2025A Bonds credited to its Securities Depository account or (ii) to arrange for another securities depository to maintain custody of certificates evidencing the Series 2025A Bonds.

(E) In the event that individual Series 2025A Bond certificates are to be issued to beneficial owners of the Series 2025A Bonds in accordance with any provision of this Section 206, the Authority shall bear the expense of providing an inventory of Series 2025A Bond certificates for purposes of producing such certificates.

(F) Notwithstanding any other provision of this Supplemental Resolution to the contrary, so long as any Series 2025A Bond is registered in the name of a nominee of the Securities Depository, all payments with respect to the principal of any premium, if any, and interest on such Series 2025A Bond and all notices with respect to such Series 2025A Bond shall be made and given, respectively, to the nominee or Securities Depository.

(G) In connection with any notice or other communication to be provided to holders of the Series 2025A Bonds pursuant to this Supplemental Resolution by the Authority or the Trustee with respect to any consent or other action to be taken by holders of the Series 2025A Bonds, the Authority shall establish a record date for such consent or other action and give the nominee or Securities Depository notice of such record date not less than fifteen calendar days in advance of such record date to the extent possible.

Section 207. Redemption Prices and Terms. (A) Optional Redemption of Series 2025A Bonds. The Series 2025A Bonds maturing on or after June 15, 2035 (or such other date as determined pursuant to the provisions of Article III hereof) will be subject to redemption prior to maturity at the option of the Authority on June 15, 2034 (or such other date as determined pursuant to the provisions of Article III hereof) and thereafter on any date, as a whole or in part at 100% of the principal amount to be redeemed plus accrued interest to the date of redemption, in such order of maturity as is selected by the Authority and by lot within a maturity, in principal amounts of $5,000 or integral multiples thereof.

(B) Mandatory Sinking Fund Redemption. Any Series 2025A Term Bonds may be subject to mandatory sinking fund redemption established pursuant to the provisions of Article III hereof. Such sinking fund installments shall become due on June 15 in each of the years determined pursuant to the provisions of Article III hereof in an amount sufficient to redeem on such date (or in the case of the last such sinking fund installment to pay at maturity), at 100% of the principal amount thereof plus accrued interest thereon to such redemption date, the Series 2025A Term Bonds determined pursuant to Article III hereof, the particular Series 2025A Term Bonds to be redeemed to be selected by lot.

(C) Mandatory Redemption with Unspent Bond Proceeds. Any amounts remaining in the Construction Fund for the Series 2025A Bonds upon completion of the Series 2025A Project shall be deposited in the Redemption Fund and applied on the next interest payment date for the Series 2025A Bonds to redeem Series 2025A Bonds, at par plus accrued interest to the date of redemption, in such order of maturity as is selected by the Authority and by lot within a maturity.

Section 208. Debt Reserve Requirement. A Series Debt Reserve Account shall be established securing the Series 2025A Bonds and the Debt Reserve Requirement for the Series 2025A Bonds shall be determined in accordance with the General Resolution and pursuant to the provisions of Article III hereof.

ARTICLE III

SALE AND DISPOSITION OF PROCEEDS AND OTHER AMOUNTS

Section 301. Private Sale. Should the Authority, in consultation with its independent financial advisor, determine pursuant to Section 1187 of the Act that the private sale of the Series 2025A Bonds is in the best interests of the Authority, it will apply for the approval of the Comptroller of the State for such private sale pursuant to said Section 1187.

Section 302. Sale of the Series 2025A Bonds. (A) The substance and form of the Contract of Purchase relating to the Series 2025A Bonds by and between the Authority and the Underwriter, substantially in the form presented at this meeting and annexed hereto as Exhibit A, is hereby approved. The Chairman, Vice-Chairman, and Executive Secretary are each hereby authorized, empowered, and directed to negotiate with the Underwriter the terms and conditions of the Series 2025A Bonds, including, but not limited to, the aggregate principal amount, maturity dates, redemption provisions, and interest rate or rates. The Chairman, Vice-Chairman, or Executive Secretary of the Authority are each hereby authorized to execute and deliver the Contract of Purchase with such changes, insertions, and omissions as may be approved by such Chairman, Vice-Chairman, or Executive Secretary, and such execution shall be conclusive evidence of any approval required by this Section 302(A). Subject to the approval of the Comptroller of the State, if required, the Series 2025A Bonds are hereby authorized to be sold to the Underwriter on the terms and conditions set forth in the Contract of Purchase.

(B) The Chairman, Vice-Chairman, and Executive Secretary of the Authority (each, an "Authorized Officer") are each hereby authorized to execute and deliver any and all papers, instruments, opinions, certificates, affidavits, and other documents and to do and cause to be done all acts and things necessary, convenient or proper for carrying out the General Resolution, this Supplemental Resolution, the Contract of Purchase and the issuance, sale, and delivery of the Series 2025A Bonds.

Section 303. Date and Place of Sale. The Series 2025A Bonds shall be sold to the Underwriter, on a date to be determined by the Chairman, Vice Chairman, or Executive Secretary and set forth in the Contract of Purchase.

Section 304. Official Statement. (A) The Preliminary Official Statement, in substantially the form presented to this meeting and annexed hereto as Exhibit B, is hereby approved, but is subject to change by the Chairman, Vice Chairman or Executive Secretary without notice and to completion or amendment or supplementation in the final Official Statement as specified below. The Chairman, Vice Chairman or Executive Secretary is hereby authorized to distribute copies of the Preliminary Official Statement to the Underwriter in such quantities as any such officer determines to be appropriate.

(B) Upon the sale of the Series 2025A Bonds, the Chairman, Vice Chairman, or Executive Secretary is hereby authorized to complete the final Official Statement with such changes, variations, omissions, and insertions as any such officer shall deem necessary or desirable to finalize the Official Statement. The Chairman, Vice Chairman or Executive Secretary is hereby further authorized to furnish the Underwriter copies of the final Official Statement, in such quantities as any such officer determines to be appropriate, within seven (7) days of the award of the Series 2025A Bonds.

Section 305. Continuing Disclosure Agreement. The Continuing Disclosure Agreement, in substantially the form presented to the Authority and attached hereto as Exhibit C, is hereby approved. The Authorized Officers of the Authority, and each of them without the others, are hereby authorized to

execute and deliver the Continuing Disclosure Agreement on behalf of the Authority, together with such changes, variations, omissions, and insertions as such officers or any of them shall deem appropriate, without additional action by the Authority; such execution shall constitute conclusive evidence of such approval.

Section 306. Disposition of Proceeds of the Series 2025A Bonds. The proceeds of the sale of the Series 2025A Bonds shall be applied as follows:

(A) To be paid to the Trustee for deposit into the Construction Fund with respect to the Series 2025A Project, the amount determined pursuant to the provisions of this Article III and as set forth in the Contract of Purchase, a portion of which, in an amount determined pursuant to the provisions of this Article III and as set forth in the Contract of Purchase, will be deposited into the Capitalized Interest Account.

(B) To be paid to the Trustee for deposit into, or to purchase a surety bond or other Reserve Fund Facility to be held in, the Series Debt Reserve Account for Common Debt Reserve Secured Bonds of the Debt Reserve Fund with respect to the Series 2025A Bonds, the amount to be determined pursuant to the provisions of this Article III and as set forth in the Contract of Purchase.

(C) To pay the amount, if any, determined pursuant to the provisions of this Article III and as set forth in the Contract of Purchase, to pay the premium for bond insurance to secure repayment of principal and interest on the Series 2025A Bonds.

(D) To pay Costs of Issuance of the Series 2025A Bonds either directly therefrom or following deposit thereof in an account hereby authorized to be established and to be held by the Authority, designated as the Series 2025A Bonds Costs of Issuance Account, the amount remaining after the application required in Sections 306(A) and (B) above has been effected. Such amount as therein deposited shall be promptly expended to pay the Costs of Issuance of the Series 2025A Bonds not otherwise paid. Any amounts remaining in such account after payment of all Costs of Issuance may be applied to and expended for any lawful purpose of the Authority.

Section 307. Tax Covenants. (A) The Authority shall not permit at any time or times any of the proceeds of the Series 2025A Bonds or any other funds of the Authority to be used directly or indirectly to acquire any securities or obligations, the acquisition of which would cause any Series 2025A Bond to be an "arbitrage bond" as defined in Section 148 of the Internal Revenue Code of 1986, as amended (the "Code").

(B) The Authority shall not permit at any time or times any proceeds of the Series 2025A Bonds or any other funds of the Authority to be used, directly or indirectly, in a manner that would result in the exclusion of any Series 2025A Bond from the treatment afforded by Section 103(a) of the Code, as from time to time amended, or result in the classification of any Series 2025A Bond as a "private activity bond" within the meaning of Section 141 of the Code.

(C) The Authority will comply with the provisions and procedures of the Arbitrage and Use of Proceeds Certificate to be delivered concurrently with the delivery of the Series 2025A Bonds, and it will do and perform all acts and things necessary or desirable to assure that interest paid on the Series 2025A Bonds is excludable from gross income under Section 103 of the Code.

Section 308. Credit Facility; Reserve Fund Facility. The Authority may enter into one or more Credit Facility Agreements and/or Reserve Fund Facility Agreements with respect to the Series 2025A Bonds in form and substance and with such Credit Issuers or Reserve Fund Facility Providers as may be approved by any Authorized Officer of the Authority, in consultation with the Authority's Financial Advisor.

ARTICLE IV

FORM AND EXECUTION

Section 401. Form of the Series 2025A Bonds. Subject to the provisions of the General Resolution, the Series 2025A Bonds shall be executed in substantially the following form:

REGISTERED REGISTERED

No. 2025R-__ $_____

BUFFALO SEWER AUTHORITY

SEWER SYSTEM REVENUE BOND, SERIES 2025A

MATURITY DATE INTEREST RATE DATE OF ORIGINAL ISSUE CUSIP

REGISTERED OWNER:

PRINCIPAL SUM: _____ DOLLARS AND NO CENTS

BUFFALO SEWER AUTHORITY (the "Authority"), a body corporate and politic constituting a public benefit corporation organized and existing under the laws of the State of New York (the "State"), for value received, hereby promises to pay solely as hereinafter provided to the REGISTERED OWNER named above, or registered assigns, on the MATURITY DATE (stated above), the PRINCIPAL SUM (stated above) upon presentation and surrender hereof at the corporate trust office of Manufacturers and Traders Trust Company, in Buffalo, New York (the "Paying Agent"), and to pay interest on such PRINCIPAL SUM from April 23, 2025 or from the most recent interest payment date to which interest has been paid at the INTEREST RATE (stated above), payable December 15, 2025, and semiannually thereafter on June 15 and December 15 in each year to maturity. Interest hereon shall be payable by the Paying Agent on each interest payment date to the registered owner hereof at his address as it appears on the registration books of the Authority maintained by the Paying Agent or at such other address as may be furnished in writing by the registered owner to the Paying Agent at the close of business on the fifteenth day of the month preceding each interest payment date. Principal of, redemption premium, if any, and interest on this Bond are payable in any coin or currency of the United States of America that, at the date of payment, is legal tender for the payment of public and private debts.

REFERENCE IS MADE TO THE FURTHER PROVISIONS OF THIS BOND SET FORTH ON THE REVERSE HEREOF WHICH SHALL FOR ALL PURPOSES HAVE THE SAME EFFECT AS THOUGH FULLY SET FORTH HEREIN.

This Bond and the issue of which it forms a part are special obligations of the Authority payable solely from revenues and other moneys pledged for such payment pursuant to the Act and the Resolution. This Bond and the issue of which it forms a part shall not in any respect be a general obligation of the Authority to which the full faith and credit of the Authority is pledged and shall not in any manner or to any extent constitute or be a charge upon any moneys or property of the Authority not specifically pledged thereto by the Resolution. The Authority has no taxing power. This Bond is not a debt of the State of New York or the City of Buffalo, and neither the State of New York nor the City of Buffalo is liable hereon, nor is this Bond payable out of any funds other than those of the Authority.

This Bond is issued pursuant to and in full compliance with the Constitution and laws of the State. It is hereby certified, recited, and declared that all acts, conditions, and things required to exist, happen, and be performed precedent to and in the issuance of this Bond do exist, have happened and have been performed in due time, form, and manner as required by law and that the issuance of this Bond and of the issue of which it forms a part, together with all other obligations of the Authority, do not exceed or violate any constitutional or statutory limitation.

Neither the officers of the Authority nor any person executing this Bond shall be liable personally or be subject to any personal liability or accountability by reason of the issuance hereof.

This Bond shall not be valid or become obligatory for any purpose or be entitled to any security or benefit under the Resolution until the certificate of authentication hereon shall have been signed by the Trustee.

IN WITNESS WHEREOF, THE BUFFALO SEWER AUTHORITY has caused this Bond to be executed in its name and on its behalf by the manual or facsimile signature of its Chairman or Vice-Chairman, and its corporate seal (or facsimile thereof) to be affixed, imprinted, engraved or otherwise reproduced hereon and attested by the manual or facsimile signature of its Secretary or an Assistant Secretary, all as of the ____ day of _____, 2025.

BUFFALO SEWER AUTHORITY

By: _____
Chairman

(SEAL)

Attest:

_____
Secretary

(to be printed on reverse of bond)

BUFFALO SEWER AUTHORITY

Sewer System Revenue Bond, Series 2025A

This Bond is one of an authorized issue of bonds of the Authority designated "Sewer System Revenue Bonds, Series 2025A" in the aggregate principal amount of $_____ (the "Bonds"), which are issued to finance the design, rehabilitation and construction of certain projects (collectively, the "Series 2025A Project") at the Raw Wastewater Pump Station, the Settled Wastewater Pump Station, the South Buffalo Pump Station and the Fruit Belt Sewer (and as further described in the hereinafter-defined Supplemental Resolution). The Bonds are issued pursuant to the provisions of the Buffalo Sewer Authority Act, Title 8 of Article 5 of the Public Authorities Law, Chapter 43-A of the Consolidated Laws of the State of New York, as amended (the "Act"), a resolution adopted by the Authority on May 26, 2021, entitled "Amended and Restated Sewer System Revenue Bond Resolution" (the "General Resolution") and a supplemental resolution authorizing the Bonds adopted by the Authority on March 12, 2025 (the "Supplemental Resolution" and, together with the General Resolution, the "Resolution"). A copy of the Resolution is on file at the office of the Authority in the City of Buffalo, New York, and at the principal office in the City of Buffalo, New York, of Manufacturers and Traders Trust Company, as trustee under the Resolution (said trustee and any successor trustee under the Resolution being called the "Trustee"). Reference to the Resolution and any and all supplements thereto and modifications and amendments thereof and to the Act is made for a description of the pledges and covenants securing the Bonds, the nature, extent, and manner of enforcement of such pledges, the rights and remedies of the registered owners of the Bonds with respect thereto and the terms and conditions upon which the Bonds are issued and additional Bonds may be issued in additional Series for the purpose of providing sufficient funds for the capital costs of the Authority's sewer system or for the purpose of refunding outstanding Bonds.

This Bond is transferable or exchangeable only upon the books of the Authority kept for that purpose at the above-mentioned office of the Trustee by the registered owner hereof in person, or by his duly authorized attorney, upon surrender of this Bond (together with a written instrument of transfer satisfactory to the Trustee duly executed by the registered owner or his duly authorized attorney), and thereupon a new Bond or Bonds, in the same aggregate principal amount and of the same maturity, shall be issued to the transferee or the registered owner in exchange therefor as provided in the Resolution and upon payment of the charges therein prescribed. The Authority and the Trustee may deem and treat the person in whose name this Bond is registered as the absolute owner hereof for the purpose of receiving payment of, or on account of, the principal or redemption price hereof and interest due hereon and for all other purposes whatsoever.

The Bonds maturing on or after _____ will be subject to redemption prior to maturity at the option of the Authority on _____ and thereafter on any date, as a whole or in part at 100% of the principal amount to be redeemed plus accrued interest to the date of redemption, in such order of maturity as is selected by the Authority and by lot within a maturity, in principal amounts of $5,000 or integral multiples thereof.

[This Bond is also subject to redemption in part by lot on _____ in each year commencing _____ at the principal amount plus accrued interest to the date of redemption thereof, from mandatory sinking fund installments, which are required to be made in amounts sufficient to redeem on _____ 1 of each year the principal amount specified for each of the years shown below:

Sinking Fund Installments

Year Amount]

[Any amounts remaining in the Construction Fund for the Bonds upon completion of the Series 2025A Project shall be deposited in the Redemption Fund and applied on the next interest payment date for the Bonds to redeem Bonds, at par plus accrued interest to the date of redemption, in such order of maturity as is selected by the Authority and by lot within a maturity.]

If this Bond (or any portion hereof) is duly called for redemption, the Trustee shall give notice, in the name of the Authority, of the redemption of this Bond, which notice shall specify the Series and maturities of the Bonds to be redeemed, the redemption date and the place or places where amounts due upon such redemption will be payable and, if less than all of the Bonds of any like Series and maturity are to be redeemed, the numbers or other distinguishing marks of such Bonds so to be redeemed. Such notice shall further state that on such date, there shall become due and payable upon each Bond to be redeemed the Redemption Price thereof, together with interest accrued to the redemption date and that from and after such date, interest thereon shall cease to accrue and be payable. The Trustee shall, upon written instruction of an Authorized Officer, give such notice either by (i) delivery of a copy of such notice not less than thirty days before the redemption date, to the registered owners of any Bonds that are to be redeemed, at their last addresses, if any, appearing upon the registry books, or, in the case of Book Entry Bonds, to the Depository for such Book Entry Bonds in accordance with such Depository's standard practices, or (ii) publication once a week for at least two successive weeks in an Authorized Newspaper, the first such publication to be not less than thirty days nor more than sixty days prior to the redemption date, but such delivery or publication shall not be a condition precedent to such redemption and failure so to deliver or publish any such notice shall not affect the validity of the proceedings for the redemption of Bonds. If this Bond (or any portion hereof) shall have been duly called for redemption and notice of such redemption duly given as aforesaid, and if on or before the redemption date, there shall be deposited with the Trustee or other Paying Agent sufficient funds to pay the principal amount hereof to be redeemed at the then applicable redemption price and the interest accrued on the principal amount redeemed to the date of redemption, then this Bond (or such portion hereof) shall become due and payable upon such redemption date and interest shall cease to accrue and become payable from and after the redemption date on the principal amount hereof to be redeemed.

This Bond shall have all the qualities and incidents of a negotiable instrument to the extent provided by the Uniform Commercial Code of the State of New York and shall be transferable by the registered owner hereof or by such owner's authorized agent at the principal office of the registrar upon surrender and cancellation of this Bond, and thereupon a new registered Bond or Bonds without coupons of the same aggregate principal amount in authorized denominations and of the same series, interest rate, and maturity will be issued to the transferee as provided in the Resolution and upon payment of any transfer charge therein prescribed. The Authority, the Trustee, the Paying Agent and any other person may treat the person in whose name this Bond is registered as the absolute owner hereof for the purpose of receiving payment thereof and for all purposes and shall not be affected by any notice to the contrary, whether this Bond be overdue or not.

The Resolution permits, with certain exceptions as therein provided, the amendment thereof and the modification of the rights and obligations of the Authority and the rights of the holders of the Bonds at any time by the Authority with the consent of the holders of not less than a majority in

aggregate principal amount of the Bonds at the time Outstanding thereunder. Any such consent shall be conclusive and binding upon each such holder and upon all future holders of each Bond and of any such Bond issued upon the transfer or exchange thereof, whether or not notation of such consent is made thereon. The Resolution also contains provisions permitting the Trustee to waive certain past defaults and their consequences. The holder of this Bond shall have no right to enforce the provisions of the Resolution, to institute action to enforce the provisions and covenants thereof or to institute, appear in or defend any suit or other proceeds with respect thereto, except as provided in the Resolution.

[FORM OF ASSIGNMENT]

ASSIGNMENT

FOR VALUE RECEIVED the undersigned sells, assigns and transfers unto

(Please Print or Type Name and Address of Assignee) the within bond and does hereby irrevocably constitute and appoint.

Attorney to transfer the said bond on the books kept for the registration thereof, with full power of substitution in the premises.

Dated: _____

_____

NOTICE: The signature to this assignment must correspond with the name as it appears on the face of the within bond in every particular.

In the presence of:

_____

Section 402. Certificate of Authentication. The Certificate of Authentication to be printed on each of the Series 2025A Bonds shall be in the following form:

[CERTIFICATE OF AUTHENTICATION]

This Bond is one of the Series 2025A Bonds described in the within-mentioned Resolution.

MANUFACTURERS AND TRADERS
TRUST COMPANY, as Trustee

By: _____
Authorized Officer

Section 403. No Recourse on Series 2025A Bonds. All covenants, stipulations, promises, agreements, and obligations of the Authority contained in this Supplemental Resolution shall be deemed to be the covenants, stipulations, promises, agreements, and obligations of the Authority and not of any officer or employee of the Authority in his or her individual capacity, and no recourse shall be had for the payment of the principal of or interest on the Series 2025A Bonds or for any claim based thereon or on this Supplemental Resolution, either jointly or severally against any officer or employee of the Authority or any person executing said Bonds.

ARTICLE V

MISCELLANEOUS

Section 501. Appointment of Paying Agent. Manufacturers and Traders Trust Company, Buffalo, New York, is hereby appointed Paying Agent for the Series 2025A Bonds pursuant to Section 1102 of the General Resolution.

Section 502. CUSIP Identification Numbers. CUSIP identification numbers, at the sole option of the Authority, may be placed on the Series 2025A Bonds, but neither the failure to place any such number on any Series 2025A Bond nor any inaccuracy, error, or omission with respect thereto shall constitute cause for failure or refusal by the Underwriter to accept delivery of and pay for the Series 2025A Bonds. No such CUSIP identification number shall constitute a part of the contract evidenced by the particular Series 2025A Bond upon which it is imprinted, and no liability shall attach to the Authority or any officer or agent thereof, including any registrar or Paying Agent for the Series 2025A Bonds, by reason of such number or any use made thereof, including any use thereof made by the Authority, any such officer or any such agent, or by reason of any inaccuracy, error or omission with respect thereto or in such use.

Section 503. Official Intent. The Authority may pay certain expenses incurred in connection with the Series 2025A Project prior to the date the Series 2025A Bonds are issued out of the Authority's general operating fund. The Authority intends to reimburse any such original expenditure with the proceeds of the Series 2025A Bonds in accordance with Treasury Regulation 1.150-2.

Section 504. Effective Date. This Supplemental Resolution shall take effect immediately.

EXHIBIT A

CONTRACT OF PURCHASE

EXHIBIT B

PRELIMINARY OFFICIAL STATEMENT

EXHIBIT C

CONTINUING DISCLOSURE AGREEMENT

CERTIFICATE

I, Eleanor Petrucci, Secretary of the Buffalo Sewer Authority in the County of Erie, State of New York, HEREBY CERTIFY that the foregoing annexed extract from the Minutes of a meeting of the Board of Directors of said Authority, duly called and held on March 12, 2025, and at which a quorum was present and acting throughout and the resolution contained therein is a true and complete copy of the resolution thereupon adopted and recorded in the Minutes of said Authority and that the foregoing extract has been compared by me with the original minutes as officially recorded in my office in the Minute Book of said Authority and is a true, complete and correct copy thereof and of the whole of said original minutes so far as the same relate to the subject matters referred to in said extract, and that said resolution has not been amended or repealed but is in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the corporate seal of said Authority this _____ day of _____, 2025.

(SEAL)

_____

Eleanor Petrucci, Secretary

ITEM NO. 5

AUTHORIZATION TO ENTER INTO A MEMORANDUM OF UNDERSTANDING WITH THE BUFFALO MUNICIPAL HOUSING AUTHORITY REGARDING THE INSTALLATION OF GREEN INFRASTRUCTURE PRACTICES

WHEREAS: On June 3, 2021, the Board of the Buffalo Sewer Authority approved the pricing and other details of the Sewer System Environmental Impact Revenue Bonds, Series 2021 to fund the Raincheck 2.0 Green Infrastructure Program.

WHEREAS: As a term of these bonds, green infrastructure constructed through this funding mechanism is required to be on publicly-owned lands. Toward that end and working in tandem with the Buffalo Municipal Housing Authority, the Buffalo Sewer Authority has identified the Kenfield-Langfield and Ferry-Grider properties. These properties represent the best cost effective and efficient use of these bonds on public lands.

WHEREAS: As a condition to constructing green infrastructure on these lands, Buffalo Sewer Authority representatives negotiated the terms of a Memorandum of Understanding with the Buffalo Municipal Housing Authority which sets forth the responsibilities of each party. The Memorandum of Understanding is attached hereto as Attachment A.

WHEREAS: Pursuant to the parties' agreement as described in the Memorandum of Understanding, the Buffalo Sewer Authority is responsible for funding the design, engineering and construction of the green infrastructure projects. Both parties are responsible for the projects' completion as planned by June 15, 2028.

WHEREAS: On November 21, 2024, the Board of the Buffalo Municipal Housing Authority authorized the Executive Director to enter into the Memorandum of Understanding.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Principal Sanitary Engineer and the Executive Secretary to enter into the above-referenced Memorandum of Understanding with the Buffalo Municipal Housing Authority.

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of March 12, 2025

ITEM NO. 6

AUTHORIZATION TO ENTER INTO A MEMORANDUM OF UNDERSTANDING WITH THE BUFFALO PUBLIC SCHOOLS REGARDING THE INSTALLATION OF GREEN INFRASTRUCTURE PRACTICES

WHEREAS: On June 3, 2021, the Board of the Buffalo Sewer Authority approved the pricing and other details of the Sewer System Environmental Impact Revenue Bonds, Series 2021 to fund the Raincheck 2.0 Green Infrastructure Program.

WHEREAS: As a term of these bonds, green infrastructure constructed through this funding mechanism is required to be on publicly-owned lands. Toward that end and working in tandem with the Buffalo Public Schools, the Buffalo Sewer Authority has identified twenty (20) Buffalo Public Schools' properties. These properties represent the best cost effective and efficient use of these bonds on public lands.

WHEREAS: As a condition to constructing green infrastructure on these lands, Buffalo Sewer Authority representatives negotiated the terms of a Memorandum of Understanding with the Buffalo Public Schools which sets forth the responsibilities of each party. The Memorandum of Understanding is attached hereto as B.

WHEREAS: Pursuant to the parties' agreement as described in the Memorandum of Understanding, the Buffalo Sewer Authority is responsible for funding the design, engineering and construction of the green infrastructure projects. Both parties are responsible for the projects' completion as planned by June 15, 2028.

WHEREAS: On November 20, 2024, the Board of the Buffalo Public Schools authorized the Superintendent to enter into the Memorandum of Understanding.

NOW THEREFORE
BE RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Principal Sanitary Engineer and the Executive Secretary to enter into the above-referenced Memorandum of Understanding with the Buffalo Public Schools.

MOTION TO	APPROVE
MADE BY	MRS. PETRUCCI
2ND BY	MR. ROOSEVELT
AYES 3	NOES 0

Board Meeting of March 12, 2025

ITEM NO. 7

CHANGE ORDER NO. 1 – CONTRACT NO. 82000062 ARCADIS ENGINEERING SERVICES FOR WASTE HEAT BOILER REHABILITATION

CONSULTANT:	ORIGINAL CONTRACT COST	$398,000.00
Arcadis, Inc.	PREVIOUS CHANGE ORDERS	$0.00
62638 Collection Center Drive	THIS CHANGE ORDER	$111,500.00
Chicago, Il 60693-0626	ADJUSTED CONTRACT COST	$509,500.00

VENDOR NO. 1652 ACCOUNT NO. 02000562-432004

WORK: Waste Heat Boiler Rehabilitation Design and CA/CI

DESCRIPTION OF CHANGE OR EXTRA WORK:

Item #1 Additional design and coordination services for the Waste Heat Boiler Rehabilitation project

REASON FOR CHANGE OR EXTRA WORK:

Item #1 Arcadis Engineering was originally designing project specifications to accommodate a rehabilitation of the Waste Heat Boilers. After a condition assessment performed by a subconsultant for Arcadis, (Babcock and Wilcox), in November of 2024, it was determined that the most cost-effective path forward was to replace the boiler rather than rehabilitate the existing boiler. Thereby creating a necessity for additional design and engineering services.

COST OF CHANGE OR EXTRA WORK:

Item #1 $111,500.00

THE TOTAL COST OF THE CHANGE OR EXTRA WORK: $111,500.00

WHEREAS: In Item No. 8, on January 4, 2023, the Board of the Buffalo Sewer Authority authorized the General Manager to enter into an agreement with Arcadis for Engineering Services for design and Construction Administration/Construction Inspection at a cost not to exceed $398,000.00; and

WHEREAS: On April 3, 2023, Arcadis, Inc. entered into a contract with the Buffalo Sewer Authority in accordance with the previously stated conditions; and

WHEREAS: The Acting Treatment Plant Administrator and Staff have reviewed the "Bird Island Wastewater Treatment Plant Waste Heat Recovery Boiler System Improvements – Proposed Amendment No. 1 for Additional Design Services

Contract No. 82000062 ” and the Change Order No. 1 and recommend their approval.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves Change Order No. 1 to Contract No. 82000062 as written in the above Agenda Item, increasing the contract cost in the amount of $111,500.00, making the adjusted contract cost $509,500.00. Expenses from this contract will be funded from Account No. 02000562-432004.

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of March 12, 2025

ITEM NO. 8

AUTHORIZATION TO PURCHASE A SKID STEER UNDER STATE CONTRACT

WHEREAS: The Supervisor of Yards and Grounds and Head Motor Equipment Mechanic request approval to purchase the following Bobcat Skid Steer with additional options available under New York State Contract, to add to the existing fleet:

State Contract	Vendor	Vehicle	Cost
NYS#PC69396 Award PGB#22792 Group#40625 Heavy Equipment	Clark Equipment Company DBA Bobcat Company	S650 T4 Bobcat Skid Steer Loader. Item# M0231. 74 HP Tier 4 Turbo Diesel Engine. Delivery & Setup Charges Total Vehicle Cost:	$57,082.85 $1641.00 $58,723.85

WHEREAS: The Supervisor of Yards and Grounds and the Head Motor Equipment Mechanic recommend the purchase of the above Bobcat Skid Steer at the total cost of $58,723.85.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority authorizes the Executive Secretary and Principal Sanitary Engineer to purchase the above Bobcat Skid Steer and additional options indicated from Clark Equipment Company DBA Bobcat Company, at a total cost of $58,723.85. This purchase will be charged to account no. 00530107-474100.

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of March 12, 2025

ITEM NO. 9

AUTHORIZATION TO PURCHASE CREW CAB AND CHASSIS UNDER THE ONONDAGA BID 106-19 2025

WHEREAS: The Supervisor of Yards and Grounds and Head Motor Equipment Mechanic, request approval to purchase the following vehicle, with additional options, available under Onondaga County Contract to add to the existing fleet for Yards and Grounds:

County Contract	Vendor	Vehicle	Cost
Bid No. TB5083 Award No. 7974 Quote: 022UE	Rock City Chrysler Jeep Dodge	One (1) 2025 Ram 4500 Crew Cab and Chassi 4x4 (173.4 in WB – CA of 60 in) With Customer preferred Package 2XA 6.4L V8 HEMI HD Engine. 8-Spd TorqueFlite HD Auto Trans. Bright White Clear Coat. HD Vinyl 40/20/40 Split Bench Seat. Black/Diesel Gray. Black Tubular Side Steps. Heavy Duty Snow Plow Prep Group. 9'130Dump Body. 18" Sides/24"Gate. Stop/Turn with flashers. 2-Forward, 2- Side of Body. Poly Fenders. 18" X 18" X 24" Under Body Aluminum Tool Boxes. 10 Ton Pintle Hitch. Body Painted to Match Fleet. Tarco 9" Electric Stainless Sander. Rear Warning Light Bar. Tail Gate Locking Bar. Western 8.5' Pro + Plow. Shoes & Snow Flap. Total Vehicle Cost:	$98,725.00

WHEREAS: The Supervisor of Yards and Grounds and The Head Motor Equipment Mechanic recommend the purchase of the above vehicle at the total cost of $98,725.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority authorizes the Executive Secretary and Principal Sanitary Engineer to purchase the above vehicle and additional options indicated from Rock City Chrysler Jeep Dodge, at a total cost of $98,725.00. This purchase will be charged to account no. 00530107-474100.

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of March 12, 2025

ITEM NO. 10

CHANGE ORDER NO. 1 – PURCHASE ORDER NO. 22500547

CONTRACTOR:	ORIGINAL CONTRACT COST	$300,000.00
THE HANNON COMPANY	CHANGE ORDER NO. 1	$249,471.00
1605 WAYNESBURG DR SE	ADJUSTED CONTRACT COST	$549,471.00
CANTON, OH 44707		
VENDOR # 15899	ACCOUNT #	00520106-443421

WORK: Large Motor Turnkey Maintenance Service Program

In conjunction with the Raw Wastewater, Settled Wastewater, and South Buffalo Pumpstation Rehabilitation Project, the Principal Sanitary Engineer, Superintendent of Mechanical Maintenance, and staff and consultants from TY Lin have identified the following items to be removed from the upcoming capital project and expedited through the Large Motor Turnkey Maintenance Service Program.

DESCRIPTION OF CHANGE OR EXTRA WORK:

Item #1 Change out of upper bearing on Settled Wastewater Pump #1

Item #2 Reconditioning of motor and cleaning, baking, and changing of bearings of Settled Wastewater Pump #5

Item #3 Dehumidifying of the motor and testing for Settled Wastewater Pump #6

Item #4 Reconditioning of motor and cleaning, baking, and changing of bearings for South Buffalo Pump #1

Item #5 Rewinding of motor for South Buffalo Pump #3

Item #6 Reconditioning of motor and cleaning, baking, and changing of bearings for South Buffalo Pump #4

Item #7 Additional preventative maintenance

REASON FOR CHANGE OR EXTRA WORK:

Item #1 The bearing temperature for Settled Wastewater Pump #1 has repeatedly exceeded upper limits and as a result this pump is out of service and not available for use.

Item #2 Multiple issues with Settled Wastewater Pump #5 prevent its use for high flows and for redundancy upon completion of the first half of the NFA Phase 1 project, reducing secondary process capacity significantly.

Item #3 Issues have been identified with Settled Wastewater Pump #6 which may cause failure of this pump which once the first half of the NFA Phase 1 project is completed will be the sole functioning pump for the secondary process.

Item #4 Reconditioning of South Buffalo Pump #1 at this time will prevent degradation to the point of failure and save time, money, and process issues.

Item #5 Rewinding of South Buffalo #3 is required to ensure redundancy and capacity of this station during high flow events.

Item #6 Reconditioning of South Buffalo Pump #4 at this time will prevent degradation to the point of failure and save time, money, and process issues.

Item #7 Continuing preventative maintenance will ensure that renewal of contract for 2025-2026 will incorporate better estimates for reconditioning work required in that fiscal year.

COST OF CHANGE OR EXTRA WORK:

Item #1 $25,000.00

Item #2 $153,471.00

Item #3 $10,000.00

Item #4 $10,000.00

Item #5 $30,000.00

Item #6 16,0000.00

Item #7 $5,0000.00

THE TOTAL COST OF THE CHANGE OR EXTRA WORK	$249,471.00
The total INCREASE to the contract as a result of this Change Order is	$249,471.00

CHANGE ORDERS

CONTRACT SUPPLEMENT CONDITIONS:

1. The contract completion date established in the original contract or as modified by previous contract remains unchanged.

2. Any additional work to be performed under this contract supplement shall be carried out in compliance with the specifications included in the preceding description of changes involved with the supplemental contract drawings designated none and under the provisions of the original

contract, including compliance with applicable equipment specifications, general specifications, and project specifications for the same type of work.

3. This contract supplement unless otherwise provided herein does not relieve the Contractor from strict compliance with the guarantee provisions of the original contract, particularly those pertaining to performance and operation of equipment.

4. The Contractor expressly agrees that he will place under coverage of his performance and payment bonds and Contractor's Insurance all work covered by this contract supplement. The Contractor will furnish to the Owner evidence of increased coverage of his performance and payment bonds for the accrued value of all contract supplements that exceeds the original contract price by twenty percent (20%).

5. The costs established under this contract supplement are acknowledged as including any and all costs associated with the work described herein and including any and all costs associated with any and all work performed or to be performed by the Contractor that may be affected in any manner by the work described herein.

WHEREAS: On May 29, 2024, the Board of the Buffalo Sewer Authority authorized the General Manager to enter into and execute a contract with Hannon Electric Company, to provide Large Motor Turnkey Maintenance services for the period July 1, 2024 to June 30, 2025 at $300,000.00, with an option to renew for four (4) one-year periods; and

WHEREAS: The Principal Sanitary Engineer, Superintendent of Mechanical Maintenance, and staff requested a proposal for and have reviewed Change Order No. 1 to Purchase Order No. 22500547 as detailed above and recommend approval.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves Change Order No. 1 to Purchase Order No. 22500547 as written in the above Agenda Item, increasing the contract cost in the amount of $249,471.00, making the adjusted contract cost $549,471.00. Account No. 00520106-443421 will be utilized for this Change Order.

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of March 12, 2025

ITEM NO. 11

ADDITIONAL WORK PHASE, CONTRACT NO. 82000056 CORNELIUS CREEK CSO 055 BACKWATER GATE FLOOD MITIGATION PROJECT

CONSULTANT:	ORIGINAL CONTRACT COST	$219,300.00
Wendel	PREVIOUS CHANGE ORDER	$0.00
Centerpointe Corporate Park	ADDITIONAL WORK PHASE	$160,000.00
375 Essjay Road, Suite 200	ADJUSTED CONTRACT COST	$379,300.00
Williamsville, NY 14221		

PROJECT: CORNELIUS CREEK CSO 055 BACKWATER GATE FLOOD MITIGATION

DESCRIPTION OF CHANGE OR EXTRA WORK:

Item #1 Construction Administration Services

Item #2 Resident Engineer and Construction Observation Services

REASON FOR CHANGE OR EXTRA WORK:

Item #1 The consultant will perform construction administration services during the course of the construction project.

Item #2 The consultant will subcontract this work to JM Davidson, Engineering, D.P.C., a New York State and Buffalo and Erie County certified Woman Owned Business Enterprise.

COST OF CHANGE OR EXTRA WORK:

Item #1 $68,500.00

Item #2 $91,500.00

THE TOTAL COST OF THE CHANGE OR EXTRA WORK: $160,000.00

The total INCREASE to the contract as a result of this additional phase is $160,000.00

WHEREAS: The Buffalo Sewer Authority (BSA) has negotiated with the United States Environmental Protection Agency, the United States Department of Justice and the New York State Department of Environmental Conservation to address sewer system improvements to comply with the Federal Clean Water Act through the Combined Sewer Overflow Long-Term Control Plan (LTCP) which was approved by the agencies on March 18, 2014; and

WHEREAS: As part of the approved LTCP, the BSA committed to the installation of up to sixteen Real Time Control (RTC) projects; and

WHEREAS: The Board of the Buffalo Sewer Authority has prequalified five (5) engineering firms to allow for the submission of proposals for future real time control (smart sewer) projects under Item No. 13 of the November 22, 2021 Board Meeting; and

WHEREAS: Residents of both the Valley and Hertel neighborhoods have expressed concerns with basement back-ups during seiche-based flood events; and

WHEREAS: Post-construction monitoring of the Hertel at Deer and Smith at Perry Smart Sewer projects has revealed that seiche events have reduced the effectiveness of these projects; and

WHEREAS: In discussions with New York State Department of Conservation, New York State Division of Homeland Security & Emergency Services, and the Federal Emergency Management Agency have all indicated that Water Quality Improvement Program grant funding already secured for related projects and both Hazard Mitigation Grant Program and Building Resilient Infrastructure and Communities grant funding currently being applied for may be made available for a project to reduce the impact of these events on residents and the combined sewer system; and

WHEREAS: Upon request, one of the five (5) prequalified firms, Wendel, submitted a letter proposal to complete applicable tasks for the preliminary design for Smith Street Real Time Control flood prevention and Cornelius Creek Real Time Control flood prevention planning and permitting, and design phase services in the amount of $219,300.00; and

WHEREAS: In Item No. 14, on October 19, 2022, the Board of the Buffalo Sewer Authority authorized the General Manager to enter into an agreement with Wendel in the amount of $219,300.00 for professional engineering services associated with the Cornelius Creek and Smith Street Flood Prevention Smart Sewer Project; and

WHEREAS: The Cornelius Creek CSO 055 Backwater Gate Flood Mitigation design and the construction bid phases are complete; and

WHEREAS: A FEMA backed HMGP grant has been secured to fund the construction; and

WHEREAS: The Principal Sanitary Engineer and staff have reviewed the request for an Additional Work Phase for Contract No. 8200056 (Cornelius Creek CSO 055 Backwater Gate Flood Mitigation Project – CA/CO) in the amount of $160,000.00 as detailed above and recommend its approval; and

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves an Additional Work Phase for Contract No. 82000056 as written in the above Agenda Item, increasing the contract cost in the amount of $160,000.00, making the adjusted contract cost $379,300.00.

MOTION TO APPROVE

MADE BY MR. ROOSEVELT

2ND BY MRS. PETRUCCI

AYES 3 NOES 0

Board Meeting of March 12, 2025

ITEM NO. 12

DECLARATION OF LEAD AGENCY FOR STATE ENVIRONMENTAL QUALITY REVIEW FOR SIDNEY-LARK RTC

WHEREAS: The Buffalo Sewer Authority ("BSA") proposes to upgrade BSA's sewer collection system at Sidney Street and Lark Street to control combined sewer overflow (CSO) discharges to the Scajaquada Creek ("the Project"); and

WHEREAS: Pursuant to Section 1179 of the Authority Act, the City of Buffalo (the "City") assigned, transferred and dedicated to the Authority the jurisdiction, control, supervision, possession and use of the Sewer System; and

WHEREAS: The Sidney-Lark RTC Project area is located in the City of Buffalo's Masten District; and

WHEREAS: The Project will reduce both the number of CSO activation events to Scajaquada Creek and the total combined sewage discharge to Scajaquada Creek and the Black Rock Canal; and

WHEREAS: In accordance with Part 617 of the implementing regulations pertaining to Article 9 (State Environmental Quality Review Act – "SEQRA") of the Environmental Conservation Law, the Board has determined that the above project will be treated as a Type I action; and

WHEREAS: Part 1 of the SEQRA Long Environmental Assessment Form (EAF) has been completed (See Attachment C); and

WHEREAS: The Buffalo Sewer Authority has identified Involved Agencies for the Project.

NOW THEREFORE
BE RESOLVED: The Board of the Buffalo Sewer Authority hereby announces its intent that the BSA will serve as Lead Agency to conduct an environmental review of the Project in accordance with SEQR and will notify the Involved Agencies of BSA's intention to act as Lead Agency.

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of March 12, 2025

ITEM NO. 13

ADJOURNMENT OF MEETING

MOTION TO ADJOURN

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of March 12, 2025

ATTACHMENT B

ITEM NO.7

REPORT ON BIDS RECEIVED - CORNELIUS CREEK CSO BACKWATER GATE FLOODING MITIGATION PROJECT

WHEREAS: Formal bids were advertised and solicited for the Cornelius Creek CSO Backwater Gate Flooding Mitigation Project. The following bids were received and publicly opened by the Buffalo Sewer Authority on Thursday, January 30, 2025 at 11:00 AM:

Contractor	**Bid Amount**
Mark Cerrone, Inc.	$2,631,875.00
Nova Site Company, LLC	$3,003,550.00
ACE	$3,428,000.00
Hohl Industrial Services	Bid rejected**

**Per specification 00 21 13 instruction to bidders "Any proposal which fails to name a price, written in both words and figures, for each of the items of work when the proposal is on the basis of combined lump sum and unit price may be held to be informal and may be rejected."; and

WHEREAS: The proposals were received and the contract will be awarded on the basis of unit bid and lump sum prices. The bids do not reflect the true amount of the contract; and

WHEREAS: The Buffalo Sewer Authority's Engineering consultant, Wendel, reviewed the packages and recommends awarding the contract to the low bidder, Mark Cerrone, Inc.; and

WHEREAS: The Principal Sanitary Engineer has reviewed the consultant's recommendation and concurs with the recommendation provided by Wendel to award the contract to the low bidder, Mark Cerrone, Inc.;

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary to enter into and execute a contract with Mark Cerrone, Inc.; for the Cornelius Creek CSO Backwater Gate Flooding Mitigation Project at a cost not to exceed $2,631,875.00. Expenses for this contract shall be charged to account no. 02000593-490740.

MOTION TO	APPROVE
MADE BY	MRS. PETRUCCI
2ND BY	MR. ROOSEVELT
AYES	3 NOES 0

Board Meeting of February 19, 2025

MINUTES OF THE REGULAR MEETING

OF THE

BUFFALO SEWER AUTHORITY

April 9, 2025

BUFFALO SEWER AUTHORITY

REGULAR MEETING
April 9, 2025
3:00 P.M.

Buffalo City Hall, 65 Niagara Square Room 1038
Teleconference +1 917- 933-2166, ID #952 052 521#

ITEM NO.	CONTENTS	PAGE NO.
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1	Motion to Adopt the Minutes of March 12, 2025	59254
1-A	Enter Into Executive Session	59255
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2	Approval of Consent Agenda	59257-68
	A. Informative: Temporary Investments	
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	C. Claim Against Liability and Casualty Reserve Fund	
	D. Claim Against Liability and Casualty Reserve Fund	
	E. Claim Against Liability and Casualty Reserve Fund	
	F. Correction of Date Error on Item No. 7 of February 19, 2025 Board Resolution Authorizing Contract With Mark Cerrone, Inc.	
	G. Amendment to Schedule of Job Classification Plan	
	H. Confirmation of Appointments	
3	Consideration of the Operating Fund Budget for Fiscal Year 2025-2026	59269
4	Proposed Amended "Schedule of Sewer Rents and Other Charges" (ATTACHMENT A)	59270

5	Authorization to Publish Notice of Proposed Amended "Schedule of Sewer Rents and Other Charges"	59271
6	Contract Approval - Property Insurance	59272
7	Authorization to Purchase Service Body Under the Onondaga Bid 106-19 Contract 2025	59273
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9	Change Order No. 1 – Contract No 82000032	59275-78
10	Additional Work Phase, Contract No. 82000076 Breckenridge St. CSO Control Project	59277-80
11	Report On Bids Received – Breckenridge Street Combined Sewer Overflow (CSO) Control Project	59281
12	Adjournment Of Meeting	59282

ATTACHMENTS

Attachment A: Schedule of Sewer Rents and Other charges

Attachment B: Report On Bids Received - Cornelius Creek CSO Backwater Gate Flooding Mitigation Project

CALL OF THE ROLL

Present:	Herbert Bellamy, Jr.	Chairman of Board
	Christopher Roosevelt	Vice Chairman of the Board
	Eleanor Petrucci	Secretary of the Board
	Charles Riley	Executive Secretary
	Cheryl Colston	General Counsel
	Adam Sassone	Secretary to General Manager
	Alexander Emmerson	Treatment Plant Superintendent
	Rosaleen Nogle, P.E.	Principal Sanitary Engineer
	Joel Renzoni	Director of Sewer Maintenance
	Timothy Blake	Senior Instrument Technician
	Desiree Briggs	Preventive Maintenance Coordinator
	Paul Harris	Superintendent of Mechanical Maintenance
	Walter Walker, P.E.	TY-Lin
	Nadia Mugisha, P.E.	Arcadis
	Laura Surdej	Erie County Department of Sewerage
	Carol Burns	Executive Assistant to Comptroller

The meeting was called to order at 3:11 PM. A quorum was present.

ITEM NO. 1

Motion to Adopt the Minutes of the Meeting of March 12, 2025

MOTION TO ADOPT

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

ITEM NO. 1-A

ENTER INTO EXECUTIVE SESSION

Pursuant to section 102(3) of the open meeting law, motion made to go into executive session to discuss pending litigation regarding the matter of Geico and the Buffalo Sewer Authority

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of April 9, 2025

ITEM NO. 1-B

ACCEPT ARBITRATION AWARD

Motion to accept the arbitration award in the amount of $8,828.61 and approve payment in that amount to Geico.

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of April 9, 2025

ITEM NO. 2

APPROVAL OF CONSENT AGENDA

CONTENTS

A. Informative: Temporary Investments

B. Informative: Reallocation of Funds

C. Claim Against Liability and Casualty Reserve Fund

D. Claim Against Liability and Casualty Reserve Fund

E. Claim Against Liability and Casualty Reserve Fund

F. Correction of Date Error on Item No. 7 of February 19, 2025, Board Resolution Authorizing Contract with Mark Cerrone, Inc.

G. Amendment To Schedule of Job Classification Plan

H. Confirmation of Appointments

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of April 9, 2025

2-A

INFORMATIVE: TEMPORARY INVESTMENTS (CERTIFICATES OF DEPOSIT AND TREASURY BILLS)

As of February 28th, 2025

ISSUE DATE	MATURITY DATE	TOTAL DAYS	AMOUNT	BANK	RATE	INTEREST AMOUNT
CONSTRUCTION/CAPITAL IMPROVEMENT FUND						
31-Jul-12	**MONEY MARKET**		$3,027,209.88	Key	0.01%	Public NOW
13-Feb-25	13-Mar-25	28	$6,499,647.35	Key Banc Capital	4.21%	$21,352.65
27-Feb-25	27-Mar-25	28	$9,999,228.80	Key Banc Capital	4.20%	$32,771.20
27-Feb-25	10-Apr-25	42	$8,499,049.45	Key Banc Capital	4.21%	$41,950.55
			$28,025,135.48			
LIABILITY AND CASUALTY RESERVE FUND						
31-Jul-12	**MONEY MARKET**		$243,678.37	Key	0.01%	Public NOW
16-Jan-25	17-Apr-25	91	$779,673.90	Key Banc Capital	4.18%	$8,326.10
			$1,023,352.27			
OPERATING FUND						
31-Jul-12	**SUPER NOW**		**$3,082,204.11**	Key	0.01%	Public NOW
TRUST & AGENCY FUND						
31-Jul-12	**SUPER NOW**		**$31,597.85**	Key	0.01%	Public NOW
SURPLUS FUND						
			$627.92	Wilmington U.S. Treasury	4.79%	
21-Nov-24	15-May-25	175	$10,004,262.50	Key Banc Capital	4.50%	$223,737.50
			$10,004,890.42			
NET REVENUE FUND						
			$1,230,491.84	Wilmington U.S. Treasury		
28-Jan-25	27-Mar-25	58	$3,490,216.27	Key Banc Capital	4.20%	$23,783.73
25-Feb-25	29-Apr-25	63	$6,997,806.64	M&T Securities	4.15%	$51,193.36
			$11,718,514.75			

BSA 2021 EIB FUND

			$324,902.08	Cash	0.00%	
14-Nov-24	8-May-25	175	$32,615,964.44	Key Banc Capital	4.26%	$690,035.56
12-Dec-24	5-Jun-25	175	$9,982,955.78	M&T Securities	4.16%	$206,044.22
19-Dec-24	5-Jun-25	168	$10,101,004.00	M&T Securities	4.14%	$198,996.00
			$53,024,826.30			

DEBT RESERVE FUND

				Series J		
02-Jul-14	13-Nov-33	7076	**$278,762.17**	UST State/Local Govt	2.70%	
				Series K		
02-Jul-14	15-Feb-33	6803	**$194,396.92**	UST State/Local Govt	2.70%	
				Series L		
12-Nov-15	1-Oct-35	7263	**$689,547.00**	UST State/Local Govt	2.44%	
				Series M		
27-Jun-14	1-May-44	10901	**$585,063.94**	UST State/Local Govt	2.70%	
				Series N		
15-Nov-12	15-Apr-32	7091	**$2,167,157.00**	UST State/Local Govt	2.42%	
			EFC 2021			
			$2.42	Wilmington U.S. Treasury	4.79%	
13-Feb-25	7-Aug-25	175	$358,563.08	M&T Securities	4.18%	$7,436.92
			$358,565.50			

DSF PRIN &INT

$0.01 Wilmington Fund

DSF 2021 EIB

$1,182,682.51 Wilmington Fund 4.79%

RECEIVE & FILE

Board Meeting of April 9th, 2025

2-B

INFORMATIVE: REALLOCATION OF FUNDS

The following budgetary transfers have been made to cover unforeseen shortages. These transfers do not change the total amount of the Buffalo Sewer Authority's operating budget.

Wastewater Treatment Plant

02/28/2025	00400105 SOUTH Equipment Maint	-$60,448.00	00380106 INCIN Maint Contract	$60,448.00
02/28/2025	00200106 PLAN Eng & Tech	-$31,000.00	00380106 INCIN Maint Contract	$31,000.00
02/28/2025	00380107 INCIN Maint & Equipment	-$50,000.00	00380106 INCIN Maint Contract	$50,000.00

Sewer Maintenance

02/25/2025	00660105 SWRR Road & Highway	-$4,000.00	00690107 AUTO Cars & Other Vehicle	$4,000.00

Industrial Waste

02/26/2025	00550106 IWS Repairs to Equipment	-$292.13	005501015 IWS Spill Hazard Supplies	$292.13

RECEIVE & FILE

Board Meeting of April 9, 2025

2-C

CLAIM AGAINST LIABILITY AND CASUALTY RESERVE FUND

WHEREAS: Ashley Rossney filed a Notice of Claim for property damage to a 2024 VW Taos while parked at the Bird Island Treatment Facility on or about October 1, 2024.

WHEREAS: The General Counsel has reviewed this matter and recommends the final settlement amount of $1,065.75 is in the best interest of the Buffalo Sewer Authority.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the payment to Ashley Rossney in the final settlement amount of $1,065.75 in full and complete settlement of this matter. This claim will be paid out of the Liability and Casualty Reserve Fund.

2-D

CLAIM AGAINST LIABILITY AND CASUALTY RESERVE FUND

WHEREAS: INCT Holdings c/o Dasa Properties filed a Notice of Claim for property damage arising out of an alleged sewer basement back up at or near 18 Goethe in the City of Buffalo on or about January 7, 2025.

WHEREAS: After reviewing this matter the General Counsel agrees that the final settlement amount of $4,500.00 is in the best interest of the Buffalo Sewer Authority.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes payment to INCT Holdings c/o Dasa Properties in the final settlement amount of $4,500.00 and in full and complete settlement of this matter. This claim will be paid out of the Liability and Casualty Reserve Fund.

2-E

CLAIM AGAINST LIABILITY AND CASUALTY RESERVE FUND

WHEREAS: National Fuel Gas Distribution Corporation filed a Notice of Claim for property damage arising out of an alleged motor vehicle accident occurring on or about January 10, 2025 at Coit Street involving a Buffalo Sewer Authority vehicle and a parked National Fuel Gas vehicle.

WHEREAS: The General Counsel has reviewed this matter and concludes that the final settlement amount of $1,633.52 is in the best interest of the Buffalo Sewer Authority.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the payment to National Fuel Gas Distribution Corporation in the final settlement amount of $1,633.52 in full and complete settlement of this matter. This claim will be paid out of the Liability and Casualty Reserve Fund.

2-F

CORRECTION OF DATE ERROR ON ITEM NO. 7 OF FEBRUARY 19, 2025 BOARD RESOLUTION AUTHORIZING CONTRACT WITH MARK CERRONE, INC.

WHEREAS: At the February 19, 2025 Board meeting, the Buffalo Sewer Authority Board authorized the Executive Secretary to enter into and execute a contract with Mark Cerrone, Inc. for the Cornelius Creek CSO Backwater Gate Flooding Mitigation Project at a cost not to exceed $2,631,875.00.

WHEREAS: Subsequent to the February 19, 2025 Board meeting, Buffalo Sewer Authority staff discovered the scrivener's error and that the resolution authorizing the Executive Secretary to enter into and execute the contract reflected the year of approval as 2024, when in fact it should have reflected 2025.

WHEREAS: There being no other errors, changes or amendments to Item No. 7, attached hereto as Attachment B bearing the corrected date of February 19, 2025, the General Counsel recommends approval and the record corrected.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby adopts the resolution correcting the record with Attachment B.

2-G

AMENDMENT TO SCHEDULE OF JOB CLASSIFICATION PLAN

WHEREAS: There is a need to modify the Job Classification Plan.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority approves the addition of the following positions to the Job Classification Plan:

Two (2) Laborer II	00530161	411001

CONFIRMATION OF APPOINTMENTS

PRINCIPAL SANITARY ENGINEER (TEMPORARY)
CITY HALL ENGINEERING
$131,946 PER ANNUM
EFFECTIVE: FEBRUARY 3, 2025

ROSALEEN NOGLE
100 BAYNES ST.
BUFFALO, NY 14213

PRINCIPAL CHIEF STATIONARY ENGINEER (PERMANENT)
SEWAGE TREATMENT PLANT
$95,899 PER ANNUM
EFFECTIVE: MARCH 3, 2025

DAVID AMOIA
49 TREEHAVEN RD.
BUFFALO, NY 14215

PERSONNEL CLERK (PERMANENT)
CITY HALL ADMINISTRATION
$57,052 PER ANNUM
EFFECTIVE: MARCH 10, 2025

LEAH ROSSI
660 CRESCENT AVE
BUFFALO, NY 14216

PERSONNEL CLERK (PERMANENT)
CITY HALL ADMINISTRATION
$54,858 PER ANNUM
EFFECTIVE: MARCH 10, 2025

CRYSTALEE LOZADA
301 GERMANIA ST.
BUFFALO, NY 14220

SENIOR CLERK (PROVISIONAL)
SEWER MAINTENANCE DIVISION
$54, 858 PER ANNUM
EFFECTIVE: MARCH 10, 2025

JANELLE VACANTI
141 REBECCA PARK
BUFFALO, NY 14207

SEWER CONSTRUCTION WORKER (PROVISIONAL)
SEWER MAINTENANCE DIVISION
$27.44 PER HOUR
EFFECTIVE: MARCH 10, 2025

LAMONT WATKINS
53 WILBURY PLACE
BUFFALO, NY 14216

SEWER CONSTRUCTION WORKER (PROVISIONAL)
SEWER MAINTENANCE DIVISION
$27.73 PER HOUR
EFFECTIVE: MARCH 10, 2025

FREDERICK PERKINS
14 LAUX ST.
BUFFALO, NY 14206

LABORER I (PERMANENT)
MAINTENANCE DIVISION
$22.04 PER HOUR
EFFECTIVE: MARCH 10, 2025

LAMARR WHITFIELD
200 VILLA AVE
BUFFALO, NY 14216

CLERK (PERMANENT)
SEWAGE TREATMENT PLANT
$45,216 PER ANNUM
EFFECTIVE: MARCH 17, 2025

KATHERINE MURPHY
56 S. PONTIAC ST.
BUFFALO, NY 14206

CLERK (PERMANENT)
CITY HALL ADMINISTRATION
$45,216 PER ANNUM
EFFECTIVE: MARCH 17, 2025

JOHN OVAK
1183 ELMWOOD AVE
BUFFALO, NY 14222

PRINCIPAL CLERK (PERMANENT)
SEWAGE TREATMENT PLANT
$72, 779 PER ANNUM
EFFECTIVE: MARCH 17, 2025

MORGAN MAYNARD
13 MCCARTHY DRIVE
BUFFALO, NY 14211

CLERK (PERMANENT)
SEWAGE TREATMENT PLANT
$45, 216 PER ANNUM
EFFECTIVE: MARCH 27, 2025

MARIDETH WANAT
1240 DELAWARE AVE APT 308
BUFFALO, NY 14209

LABORER I (PERMANENT)
SEWER MAINTENANCE DIVISION
$22.04 PER HOUR
EFFECTIVE: MARCH 24, 2025

TARIQ EUBANKS
405 GLENWOOD AVE
BUFFALO, NY 14208

WHEREAS: The preceding appointments were made by the Executive Secretary since the last Board Meeting; and

WHEREAS: The Executive Secretary requests confirmation of each appointment.

NOW THEREFORE
BE IT RESOLVED: That the preceding appointments are hereby confirmed by the Board of the Buffalo Sewer Authority

ITEM NO. 3

CONSIDERATION OF THE OPERATING FUND BUDGET FOR FISCAL YEAR 2025-2026

BE IT RESOLVED: That the Board of the Buffalo Sewer Authority does hereby adopt the attached Operating Fund Budget and Five-Year Capital Plan for the fiscal year commencing July 1, 2025.

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of April 9, 2025

ITEM NO. 4

PROPOSED AMENDED "SCHEDULE OF SEWER RENTS AND OTHER CHARGES" (ATTACHMENT A)

WHEREAS: The Buffalo Sewer Authority has hereto adopted a "Schedule of Sewer Rents and Other Charges" pursuant to Section 1180 of Title 8, Article 5 of Chapter 870 of the Laws of 1939 of the State of New York; and

WHEREAS: Such "Schedule of Sewer Rents and Other Charges" now requires adjustments to provide the required revenue to finance our Operating Fund Budget for the fiscal year July 1, 2025 to June 30, 2026; and

WHEREAS: With the goal of providing the citizens of the City of Buffalo with equitable and affordable water resources, the "Schedule of Sewer Rents and Other Charges" has been restructured to include an increase in the levy of sewer rents based on assessed value, a Consumer Price Index adjustment to sewer rents based on water use, and low-income and senior discount programs.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority does hereby adopt the attached proposed amended "Schedule of Sewer Rents and Other Charges" (Attachment A).

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of April 9, 2025

ITEM NO. 5

AUTHORIZATION TO PUBLISH NOTICE OF PROPOSED AMENDED "SCHEDULE OF SEWER RENTS AND OTHER CHARGES"

WHEREAS: The Buffalo Sewer Authority requires an amendment to the "Schedule of Sewer Rents and Other Charges."

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes and directs that the proposed amended "Schedule of Sewer Rents and Other Charges" be published as a notice once a week for three (3) successive weeks, in *The City Record*, and the *Buffalo News* on Friday, April 11, April 18, and April 25, 2025. This notice shall state that the proposed amended "Schedule of Sewer Rents and Other Charges" will remain open for inspection in the office of the Authority for thirty (30) days from the date of said notice, and that objections thereto may be filed during said period with said Authority by any person conceiving himself or herself aggrieved thereby, and that the Authority shall hear and examine such complaints and may modify the proposed Schedule and shall adopt the final amended "Schedule of Sewer Rents and Other Charges" within sixty (60) days of such notice.

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of April 9, 2025

ITEM NO. 6

CONTRACT APPROVAL - PROPERTY INSURANCE

WHEREAS: The Buffalo Sewer Authority currently receives property insurance coverage through Affiliated FM Insurance Company; and

WHEREAS: Affiliated FM Insurance Company has proposed a renewal extension to the Buffalo Sewer Authority for property insurance coverage for the period April 15, 2025 through April 15, 2026, at a cost of $305,590.00, which represents an increase of $3,090.00 or 1% over last year's cost; and

WHEREAS: This increase represents a $6.1 million increase in the appraised value of insured property, from $620,889,000.00 to $627,012,150.00; and

WHEREAS: The Buffalo Sewer Authority requested its broker, Gallagher Insurance, to reach out to other carriers in the market for competitive pricing and it was determined that Affiliated FM's comparative pricing, terms, and conditions provided stronger coverage than other insurance providers; and

WHEREAS: The Buffalo Sewer Authority will continue to look at our policy terms and conditions including limits and deductibles to achieve the best possible cost and coverage to the Authority; and

WHEREAS: The Executive Secretary of the Buffalo Sewer Authority has carefully reviewed the policies and recommends acceptance of these proposals.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves property insurance coverage through Affiliated FM Insurance Company at a cost not to exceed $305,590.00 effective April 15, 2025, for a one-year period. The cost shall be charged to account nos. 00200108-452000 and 00650108-452000 on a pro rata basis.

MOTION TO APPROVE

MADE BY MR. ROOSEVELT

2ND BY MRS. PETRUCCI

AYES 3 NOES 0

Board Meeting of April 9, 2025

ITEM NO. 7

AUTHORIZATION TO PURCHASE SERVICE BODY UNDER THE ONONDAGA BID 106-19 CONTRACT 2025

WHEREAS: The Director of Sewer Maintenance and Head Motor Equipment Mechanic request approval to purchase the following Service Body, available under Onondaga County Contract, to add to the existing fleet:

County Contract	Vendor	Vehicle	Cost
Bid No. ON-GOV-106-19 Quote#NF30342	Valley Fab & Equipment Service Body	Reading 11" DRW Classic 1 Series Service Body Fits 84" CA, Dual Rear Wheel Cab, 7 Chassis 132" Overall Length x 91.5" Overall Width A60 Steel Construction Throughout Standard Package, "A" Configuration 40" Tall Compartments x 21.05" Deep Compartments 48.5" Inside Floor Width Stainless Steel Rotary Paddle Latches Patented Hidden Hinges NitrogenGas Strut Door Retainers 12ga Treadplate Floor Standard Shelf and Tray Package Exterior LED Light Kit Standard Mechanical Master Locking Installed, Both Sides 2-1/2" receiver trailer hitch, safety D-rings and trailer plug (4) Led amber flashers at rear of body in compartments (2) Led amber flashers in front of service body facing forward (2)Led amber Beacon lights one mounted on front of body and the other in rear Total Cost With Delivery:	_____ $ 33,600.00

WHEREAS: The Director of Sewer Maintenance and the Head Motor Equipment Mechanic recommend the purchase of the above Service Body from Valley Fab for a total cost of $33,600.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority authorizes the Executive Secretary to purchase the above Service Body options indicated from Valley Fab & Equipment at a total cost of $33,600.00 This purchase will be charged to account no. 00690107-474200.

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of April 9, 2025

ITEM NO. 8

AUTHORIZATION FOR COMBINATION SEWER CLEANING MACHINE RENTAL UNDER NEW YORK STATE CONTRACT

WHEREAS: The Buffalo Sewer Authority's Facility Maintenance Division utilizes a rental Combination Sewer Cleaning Machine to perform routine and preventative maintenance cleaning at various locations throughout the Treatment Facility and Outlying Stations; and

WHEREAS: A need for a seven-month rental agreement for a Combination Sewer Cleaning Machine commencing in April 2025 to perform these essential tasks has been identified; and

WHEREAS: Joe Johnson Equipment, LLC is the designated vendor under New York State Contract PS69111 to provide this service at a cost not to exceed $76,430.00 for the duration of the seven-month agreement; and

WHEREAS: Service orders exceeding $35,000 require Board Approval; and

WHEREAS: The Superintendent of Mechanical Maintenance, Supervisor of Yards & Grounds and Staff, recommend approval for this seven-month agreement, extending through October 31, 2025, for a total cost not to exceed $76,430.00.

NOW, THEREFORE,
BE IT RESOLVED: That The Board of the Buffalo Sewer Authority hereby authorizes the execution of a seven-month rental agreement for the Combination Sewer Cleaning Machine, for a total cost not to exceed $76,430.00. Expenses incurred under this agreement shall be charged to account no. 00520106-444255.

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of April 9, 2025

ITEM NO. 9

CHANGE ORDER NO. 1 – CONTRACT NO 82000032

CONTRACTOR:	ORIGINAL CONTRACT APPROVAL	$600,000.00
O'Connell Electric	CONTRACT RENEWAL 2022-2023	$1,418,616.00
830 Phillips Road	CONTRACT RENEWAL 2023-2024	$2,179,717.00
Victor, New York 14564	CONTRACT RENEWAL 2024-2025	$2,210,482.00
	THIS CHANGE ORDER	$359,121.35
	ADJUSTED CONTRACT COST	$6,767,936.35

VENDOR: 13243 ACCOUNT # 00520106-443421

WORK: In-Plant Electrical Maintenance Services

The Superintendent of Mechanical Maintenance, Treatment Plant Superintendent, Senior Instrument Technician, and staff and consultants from Arcadis have identified the need to perform remedial de-energized maintenance items through the In-Plant Electrical Maintenance Service contract for the following systems:.

DESCRIPTION OF CHANGE OR EXTRA WORK:

Item #1 Raw Wastewater 2500kVA MV Electrical Distribution System

Item #2 Grit Collection 750kVA MV Electrical Distribution System

Item #3 Secondary Electrical Distribution System for Raw Wastewater, Primary Sludge, Administration Building, Plant Maintenance Building, Digester Area, & Gas Compressor Building

Item #4 Secondary Electrical MCC Panels for Raw Wastewater, Administration Building & Primary Sludge

Item #5 Secondary Electrical Primary Sludge Ancillary Loads

Item #6 Secondary Electrical MCC Panels for Thickener Area

Item #7 Thickener Area MV Electrical Distribution System

Item #8 Generator Equipment & Materials for use during deenergized maintenance

Item #9 Additional related expenses as required

REASON FOR CHANGE OR EXTRA WORK:

Item #1 Unforeseen degradation of Raw Wastewater 2500kVA MV Electrical Distribution System.

Item #2 Unforeseen degradation of Grit Collection 750kVA MV Electrical Distribution System.

Item #3 Unforeseen degradation of secondary electrical distribution system for Raw Wastewater, Primary Sludge, Administration Building, Plant Maintenance Building, Digester Area, & Gas Compressor Building, Secondary Electrical Distribution System.

Item #4 Unforeseen degradation of Secondary Electrical MCC Panels for Raw Wastewater, Administration Building & Primary Sludge.

Item #5 Unforeseen degradation of Secondary Electrical Primary Sludge Ancillary Loads

Item #6 Unforeseen degradation of Secondary Electrical MCC Panels for Thickener Area

Item #7 Unforeseen degradation of Thickener Area MV Electrical Distribution System

Item #8 Generator Equipment & Materials are required to perform de-energized maintenance work.

Item #9 Additional expenses may be identified in the course of deenergized maintenance work that can be more efficiently and cost-effectively resolved through an expedited authorization process.

COST OF CHANGE OR EXTRA WORK:

Item #1 $18,400.00

Item #2 $18,400.00

Item #3 $18,024.00

Item #4 $18,024.00

Item #5 $7,088.00

Item #6 $7,088.00

Item #7 36,000.00

Item #8 $203,449.95

Item #9 $32,647.40

THE TOTAL COST OF THE CHANGE OR EXTRA WORK	$359,121.35
The total INCREASE to the contract as a result of this Change Order is	$359,121.35

CONTRACT SUPPLEMENT CONDITIONS:

1. The contract completion date established in the original contract or as modified by previous contract remains unchanged.

2. Any additional work to be performed under this contract supplement shall be carried out in compliance with the specifications included in the preceding description of changes involved with the supplemental contract drawings designated none and under the provisions of the original contract, including compliance with applicable equipment specifications, general specifications, and project specifications for the same type of work.

3. This contract supplement unless otherwise provided herein does not relieve the Contractor from strict compliance with the guarantee provisions of the original contract, particularly those pertaining to performance and operation of equipment.

4. The Contractor expressly agrees that he will place under coverage of his performance and payment bonds and Contractor's Insurance all work covered by this contract supplement. The Contractor will furnish to the Owner evidence of increased coverage of his performance and payment bonds for the accrued value of all contract supplements that exceeds the original contract price by twenty percent (20%).

5. The costs established under this contract supplement are acknowledged as including any and all costs associated with the work described herein and including any and all costs associated with any and all work performed or to be performed by the Contractor that may be affected in any manner by the work described herein.

WHEREAS: On June 23, 2021, the Board of the Buffalo Sewer Authority awarded a contract to O'Connell Electric Company, Inc., for In-Plant Electrical Maintenance Services for the period July 1, 2021 to June 30, 2022 in an initial amount not to exceed $600,000.00, with an option to renew for four (4) one-year renewals periods;

WHEREAS: On June 22, 2022, the Board of the Buffalo Sewer Authority approved an extension to this contract for the period July 1, 2022 to June 30, 2023 at a cost not to exceed $1,418,616.00; and

WHEREAS: On May 3, 2023, the Board of the Buffalo Sewer Authority approved an extension to this contract for the period July 1, 2023 to June 30, 2024 at a cost not to exceed $2,179,717.00; and

WHEREAS: On June 26, 2024, the Board of the Buffalo Sewer Authority approved an extension to this contract for the period July 1, 2024 to June 30, 2025 at a cost not to exceed $2,210,482.00; and

WHEREAS The Superintendent of Mechanical Maintenance, Treatment Plant Superintendent, Senior Instrument Technician, and staff requested a proposal for and have reviewed Change Order No. 1 to Contract No. 82000032 as detailed above and recommend approval.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves Change Order No. 1 to Contract No. 82000032 as written in the above Agenda Item, increasing the contract cost in the amount of $359,121.35 making the adjusted contract cost $6,767,936.35.

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of April 9, 2025

ITEM NO. 10

ADDITIONAL WORK PHASE, CONTRACT NO. 82000076 BRECKENRIDGE ST. CSO CONTROL PROJECT

CONSULTANT:	ORIGINAL CONTRACT COST	$838,300.00
Greeley and Hansen, Inc.	PREVIOUS CHANGE ORDER	$0.00
100 S. Wacker Drive, Suite 1400	ADDITIONAL WORK PHASE	$1,649,600.00
Chicago, IL 60606-4004	ADJUSTED CONTRACT COST	$2,487,900.00

PROJECT: BRECKENRIDGE ST. CSO CONTROL PROJECT

DESCRIPTION OF CHANGE OR EXTRA WORK:

Item #1 Construction Administration Services

Item #2 Resident Engineer and Construction Observation Services

Item #3 Start Up Services

Item #4 Post-Construction Monitoring

REASON FOR CHANGE OR EXTRA WORK:

Item #1 The consultant together with both MBE and WBE subconsultants will perform construction administration services during the course of the construction project

Item #2 The consultant together with an MBE subconsultant will provide up to three years of resident engineering inspection services.

Item #3 The consultant will provide training services and documentation for the operation and maintenance of the constructed project.

Item #4 The consultant will provide additional services after construction to ensure that goals of the project have been achieved.

COST OF CHANGE OR EXTRA WORK:

Item #1 $820,500.00

Item #2 $789,000.00

Item #3 $12,200.00

Item #4 $27,900.00

THE TOTAL COST OF THE CHANGE OR EXTRA WORK: $1,649,600.00

The total INCREASE to the contract as a result of this Change Order is $1,649,600.00

WHEREAS: The Buffalo Sewer Authority (BSA) has negotiated with the United States Environmental Protection Agency, the United States Department of Justice and the New York State Department of Environmental Conservation to address sewer system improvements to comply with the Federal Clean Water Act through the Combined Sewer Overflow Long-Term Control Plan (LTCP) which was approved by the agencies on March 18, 2014; and

WHEREAS: As part of the approved LTCP, the BSA committed to the installation of up to sixteen Real Time Control (RTC) projects; and

WHEREAS: The Board of the Buffalo Sewer Authority has prequalified five (5) engineering firms to allow for the submission of proposals for future real time control (smart sewer) projects under Item No. 13 of the November 22, 2021 Board Meeting; and

WHEREAS: Upon request, one of the five (5) prequalified firms, Greeley-Hansen, submitted a letter proposal to complete applicable tasks for the design phase and construction bidding services for the Smart Sewer/ Real Time Control (RTC) Project for the Breckenridge St. CSO Control Project a in the amount of $838,300.00; and

WHEREAS: On December 6, 2023, the Board of the Buffalo Sewer Authority approved the awarding of a contract in the amount of $838,300.00 for the design of this project; and

WHEREAS: The Principal Sanitary Engineer and staff have reviewed the request for an Additional Work Phase for Contract No. 82000076 Breckenridge Street CSO Control Project $1,649,600.00 as detailed above and recommend its approval.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves an Additional Work Phase for Contract No. 82000076 as written in the above Agenda Item, increasing the contract cost in the amount of $1,649,600.00, making the adjusted contract cost $2,487,900.00.

MOTION TO APPROVE

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of April 9, 2025

ITEM NO. 11

REPORT ON BIDS RECEIVED – BRECKENRIDGE STREET COMBINED SEWER OVERFLOW (CSO) CONTROL PROJECT

WHEREAS: Formal bids were advertised and solicited for the Breckenridge Street CSO Control Project. The following bids were received and publicly opened by the Buffalo Sewer Authority on Wednesday, March 12, 2025 at 11:00 AM:

Contractor	Bid Amount
Mark Cerrone, Inc.	$23,665,000.00
Kandey Company, Inc.	$29,348,650.00

WHEREAS: The proposals were received, and the contract will be awarded on the basis of unit bid and lump sum prices. The bids do not reflect the true amount of the contract; and

WHEREAS: The Buffalo Sewer Authority's Engineering consultant, TYLin, reviewed the packages and recommends awarding the contract to the low bidder, Mark Cerrone, Inc.; and

WHEREAS: The Principal Sanitary Engineer has reviewed the consultant's recommendation and concurs with the recommendation provided by TYLin to award the contract to the low bidder, Mark Cerrone, Inc.;

NOW THEREFORE BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary to enter into and execute a contract with Mark Cerrone, Inc.; for the Breckenridge Street CSO Control Project at a cost not to exceed $23,665,000.00. Expenses for this contract shall be charged to account no. 02000594-490740

MOTION TO APPROVE

MADE BY MR.ROOSEVELT

2ND BY MRS. PETRUCCI

AYES 3 NOES 0

Board Meeting of April 9, 2025

ITEM NO. 12

ADJOURNMENT OF MEETING

MOTION TO ADJOURN

MADE BY MRS. PETRUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of April 9, 2025

BUFFALO
SEWER AUTHORITY

ATTACHMENT A-1

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: Buffalo Sewer Authority - Breckenridge Combined Sewer Overflow (CSO) Control Project		
Project Location (describe, and attach a general location map): The site is located on Breckenridge St between West Ave and Herkimer St and Herkimer St from Breckenridge St to Lafayette Ave in the City of Buffalo		
Brief Description of Proposed Action (include purpose or need): This gravity sewer project will include lining the Breckenridge Street brick sewer from West Avenue to Herkimer Street, connecting to a new sewer line on West Avenue, and sending flow to Scajaquada Tunnel on Lafayette Avenue. The Breckenridge Street sewer will be bulkheaded downstream of the new West Avenue sewer to divert this flow from SPP 21 and ultimately CSO-10. The existing sewer collection lines on West Avenue will be replaced and the house connections will be reconnected. The new West Avenue line will run north and connect to a new, deep drop-pipe manhole structure to be constructed at the intersection of West Avenue and Lafayette Avenue connecting to the Scajaquada Tunnel. This alternative originally considered replacing the Breckenridge Street sewer. Due to the excellent condition of the existing sewer identified during design, it was decided to rehabilitate and renew the infrastructure instead.		
Name of Applicant/Sponsor: Buffalo Sewer Authority	Telephone: E-Mail:	
Address: 5 Niagara Square # 1038		
City/PO: Buffalo	State: NY	Zip Code: 14202
Project Contact (if not same as sponsor; give name and title/role): Rosaleen B. Nogle, PE, BCEE, PMP, Principal Sanitary Engineer	Telephone: 716-851-5664 Ext. 4203 E-Mail: rnogle@buffalosewer.org	
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor):	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Counsel, Town Board, or Village Board of Trustees ☑Yes ☐No	City of Buffalo Common Council Masten District	
b. City, Town or Village Planning Board or Commission ☑Yes ☐No	City of Buffalo Office of Strategic Planning	
c. City, Town or Village Zoning Board of Appeals ☐Yes ☑No		
d. Other local agencies ☑Yes ☐No	City of Buffalo Department of Public Works, Parks & Streets, See attached sheet for additional involv	
e. County agencies ☑Yes ☐No	Erie County Department of Health	
f. Regional agencies ☐Yes ☑No		
g. State agencies ☑Yes ☐No	SHPO/ Cultural Resources Determination, See attached sheet for additional involved agencies	
h. Federal agencies ☑Yes ☐No	USFWS, Section 7 Endangered Species Act	

i. Coastal Resources.

i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? ☐Yes ☑No

ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? ☐Yes ☑No

iii. Is the project site within a Coastal Erosion Hazard Area? ☐Yes ☑No

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? ☐Yes ☑No

- **If Yes,** complete sections C, F and G.
- **If No,** proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? ☐Yes ☑No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? ☐Yes ☑No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) ☑Yes ☐No

If Yes, identify the plan(s):

NYS Heritage Areas:West Erie Canal Corridor

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? ☐Yes ☑No

If Yes, identify the plan(s):

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☑ Yes ☐ No
If Yes, what is the zoning classification(s) including any applicable overlay district?
N-2R Residential

b. Is the use permitted or allowed by a special or conditional use permit? ☑ Yes ☐ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☑ No
If Yes,
i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? Buffalo Public Schools

b. What police or other public protection forces serve the project site?
Buffalo Police Department

c. Which fire protection and emergency medical services serve the project site?
Buffalo Fire Department

d. What parks serve the project site?
None

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Municipal - sewer work

b. a. Total acreage of the site of the proposed action? 1.8 acres
b. Total acreage to be physically disturbed? 1.6 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? All ex ROW acres

c. Is the proposed action an expansion of an existing project or use? ☐ Yes ☑ No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☑ No
If Yes,
i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)
ii. Is a cluster/conservation layout proposed? ☐ Yes ☑ No
iii. Number of lots proposed? _____
iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will the proposed action be constructed in multiple phases? ☐ Yes ☑ No
i. If No, anticipated period of construction: 6-7 months
ii. If Yes:
- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____year
- Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

f. Does the project include new residential uses? ☐ Yes ☑ No

If Yes, show numbers of units proposed.

	One Family	Two Family	Three Family	Multiple Family (four or more)
Initial Phase				
At completion of all phases				

g. Does the proposed action include new non-residential construction (including expansions)? ☐ Yes ☑ No

If Yes,

i. Total number of structures _____

ii. Dimensions (in feet) of largest proposed structure: _____height; _____width; and _____ length

iii. Approximate extent of building space to be heated or cooled: _____ square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☐ Yes ☑ No

If Yes,

i. Purpose of the impoundment: _____

ii. If a water impoundment, the principal source of the water: ☐ Ground water ☐ Surface water streams ☐ Other specify:

_____

iii. If other than water, identify the type of impounded/contained liquids and their source.

_____

iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres

v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete):

_____

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? ☑ Yes ☐ No
(Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite)

If Yes:

i .What is the purpose of the excavation or dredging? Sewer Work

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): 180,000 cubic feet
- Over what duration of time? 6-7 months

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.

Excavated materials will be properly characterized and disposed of at an off site permitted facility

_____

i*v.* Will there be onsite dewatering or processing of excavated materials? ☑ Yes ☐ No

If yes, describe. dewatering method to be determined by contractor

_____

v. What is the total area to be dredged or excavated? 1.6 acres acres

vi. What is the maximum area to be worked at any one time? 4500 SF acres

vii. What would be the maximum depth of excavation or dredging? 55-60 feet

viii. Will the excavation require blasting? ☐ Yes ☑ No

ix. Summarize site reclamation goals and plan: _____

_____

_____

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? ☐ Yes ☑ No

If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____

_____

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

_____

_____

_____

_____

iii. Will the proposed action cause or result in disturbance to bottom sediments? ☐Yes ☐No

If Yes, describe: _____

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? ☐Yes ☐No

If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion: _____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____

_____

- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

_____

c. Will the proposed action use, or create a new demand for water? ☐Yes ☑No

If Yes:

i. Total anticipated water usage/demand per day: _____ gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☐Yes ☑No

If Yes:

- Name of district or service area: _____
- Does the existing public water supply have capacity to serve the proposal? ☐Yes ☐No
- Is the project site in the existing district? ☐Yes ☐No
- Is expansion of the district needed? ☐Yes ☐No
- Do existing lines serve the project site? ☐Yes ☐No

iii. Will line extension within an existing district be necessary to supply the project? ☐Yes ☐No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

_____

- Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐Yes ☐No

If, Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

_____

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☐Yes ☑No

If Yes:

i. Total anticipated liquid waste generation per day: _____ gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

_____

_____

iii. Will the proposed action use any existing public wastewater treatment facilities? ☑Yes ☐No

If Yes:

- Name of wastewater treatment plant to be used: Bird Island WWTF
- Name of district: Niagara
- Does the existing wastewater treatment plant have capacity to serve the project? ☑Yes ☐No
- Is the project site in the existing district? ☑Yes ☐No
- Is expansion of the district needed? ☐Yes ☑No

- Do existing sewer lines serve the project site? ☑ Yes ☐ No
- Will a line extension within an existing district be necessary to serve the project? ☑ Yes ☐ No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

The new West Avenue line will run north and connect to a new, deep drop-pipe manhole structure to be constructed at the intersection of West Avenue and Lafayette Avenue connecting to the Scajaquada Tunnel.

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? ☐ Yes ☑ No

If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

N/A

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

N/A

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? ☐ Yes ☑ No

If Yes:

i. How much impervious surface will the project create in relation to total size of project parcel?

_____ Square feet or _____ acres (impervious surface)

_____ Square feet or _____ acres (parcel size)

ii. Describe types of new point sources. _____

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

- If to surface waters, identify receiving water bodies or wetlands: _____
- Will stormwater runoff flow to adjacent properties? ☐ Yes ☐ No

iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? ☐ Yes ☐ No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? ☐ Yes ☑ No

If Yes, identify:

i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? ☐ Yes ☑ No

If Yes:

i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) ☐ Yes ☐ No

ii. In addition to emissions as calculated in the application, the project will generate:

- _____Tons/year (short tons) of Carbon Dioxide (CO_2)
- _____Tons/year (short tons) of Nitrous Oxide (N_2O)
- _____Tons/year (short tons) of Perfluorocarbons (PFCs)
- _____Tons/year (short tons) of Sulfur Hexafluoride (SF_6)
- _____Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)
- _____Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? ☐Yes ☑No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

_____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? ☐Yes ☑No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):

_____

_____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? ☐Yes ☑No

If Yes:

i. When is the peak traffic expected (Check all that apply): ☐ Morning ☐ Evening ☐Weekend ☐ Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____

_____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? ☐Yes ☐No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe:

_____

vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? ☐Yes ☐No

vii Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? ☐Yes ☐No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? ☐Yes ☐No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? ☐Yes ☑No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____

_____

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other):

_____

iii. Will the proposed action require a new, or an upgrade, to an existing substation? ☐Yes ☐No

l. Hours of operation. Answer all items which apply.

i. During Construction:

- Monday - Friday: 8 am - 4 pm
- Saturday: _____
- Sunday: _____
- Holidays: _____

ii. During Operations:

- Monday - Friday: _____
- Saturday: _____
- Sunday: _____
- Holidays: _____

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? ☐ Yes ☑ No

If yes:

i. Provide details including sources, time of day and duration:

_____

_____

ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? ☐ Yes ☐ No

Describe: _____

_____

n. Will the proposed action have outdoor lighting? ☐ Yes ☑ No

If yes:

i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

_____

_____

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? ☐ Yes ☐ No

Describe: _____

_____

o. Does the proposed action have the potential to produce odors for more than one hour per day? ☐ Yes ☑ No

If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____

_____

_____

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? ☐ Yes ☑ No

If Yes:

i. Product(s) to be stored _____

ii. Volume(s) _____ per unit time _____ (e.g., month, year)

iii. Generally, describe the proposed storage facilities:_____

_____

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ☐ Yes ☑ No

If Yes:

i. Describe proposed treatment(s):

_____

_____

_____

_____

ii. Will the proposed action use Integrated Pest Management Practices? ☐ Yes ☐ No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? ☐ Yes ☑ No

If Yes:

i. Describe any solid waste(s) to be generated during construction or operation of the facility:

- Construction: _____ tons per _____ (unit of time)
- Operation : _____ tons per _____ (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction: _____

  _____
- Operation: _____

  _____

iii. Proposed disposal methods/facilities for solid waste generated on-site:

- Construction: _____

  _____
- Operation: _____

  _____

s. Does the proposed action include construction or modification of a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

_____

_____

ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

_____

_____

iii. Specify amount to be handled or generated _____ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

_____

_____

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☐ Yes ☐ No

If Yes: provide name and location of facility: _____

_____

If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

_____

_____

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site.

☑ Urban ☐ Industrial ☐ Commercial ☑ Residential (suburban) ☐ Rural (non-farm)

☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other (specify): _____

ii. If mix of uses, generally describe:

_____

_____

b. Land uses and covertypes on the project site.

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	1.8	1.8	0
• Forested	0	0	0
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	0	0	0
• Agricultural (includes active orchards, field, greenhouse etc.)	0	0	0
• Surface water features (lakes, ponds, streams, rivers, etc.)	0	0	0
• Wetlands (freshwater or tidal)	0	0	0
• Non-vegetated (bare rock, earth or fill)	0	0	0
• Other Describe: 0 _____ _____	0	0	0

c. Is the project site presently used by members of the community for public recreation? ☐ Yes ☑ No

i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? ☑ Yes ☐ No

If Yes,

i. Identify Facilities:

West Buffalo Charter School

e. Does the project site contain an existing dam? ☐ Yes ☑ No

If Yes:

i. Dimensions of the dam and impoundment:

- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____

iii. Provide date and summarize results of last inspection:

_____

_____

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Has the facility been formally closed? ☐ Yes ☐ No

- If yes, cite sources/documentation: _____

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

_____

_____

iii. Describe any development constraints due to the prior solid waste activities: _____

_____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

_____

_____

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? ☑ Yes ☐ No

If Yes:

i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: ☑ Yes ☐ No

☑ Yes – Spills Incidents database — Provide DEC ID number(s): See attached table.

☐ Yes – Environmental Site Remediation database — Provide DEC ID number(s): _____

☐ Neither database

ii. If site has been subject of RCRA corrective activities, describe control measures:_____

_____

_____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? ☑ Yes ☐ No

If yes, provide DEC ID number(s): 915176, E915213, C915302, C915277, 915284, C915...

iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

See attached table. All sites located west/south of project area. Groundwater flow in area is generally to the west. All sites located min of 650-feet from project area.

v. Is the project site subject to an institutional control limiting property uses? ☐ Yes ☑ No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? ☐ Yes ☐ No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? 5-10 feet

b. Are there bedrock outcroppings on the project site? ☐ Yes ☑ No
If Yes, what proportion of the site is comprised of bedrock outcroppings? _____%

c. Predominant soil type(s) present on project site: Urban land-lima complex 100 %
_____ _____%
_____ _____%

d. What is the average depth to the water table on the project site? Average: _____ feet

e. Drainage status of project site soils:
☑ Well Drained: _____% of site
☑ Moderately Well Drained: 50 % of site
☐ Poorly Drained _____% of site

f. Approximate proportion of proposed action site with slopes:
☑ 0-10%: 100 % of site
☐ 10-15%: _____% of site
☐ 15% or greater: _____% of site

g. Are there any unique geologic features on the project site? ☐ Yes ☑ No
If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☐ Yes ☑ No

ii. Do any wetlands or other waterbodies adjoin the project site? ☐ Yes ☑ No

If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☐ Yes ☑ No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name _____ Classification _____
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name _____ Approximate Size _____
- Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☐ Yes ☑ No

If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? ☐ Yes ☑ No

j. Is the project site in the 100-year Floodplain? ☐ Yes ☑ No

k. Is the project site in the 500-year Floodplain? ☐ Yes ☑ No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☐ Yes ☑ No
If Yes:

i. Name of aquifer: _____

m. Identify the predominant wildlife species that occupy or use the project site:
Northern bats

n. Does the project site contain a designated significant natural community? ☐ Yes ☑ No
If Yes:
i. Describe the habitat/community (composition, function, and basis for designation):
ii. Source(s) of description or evaluation:
iii. Extent of community/habitat:
- Currently: _____ acres
- Following completion of project as proposed: _____ acres
- Gain or loss (indicate + or -): _____ acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☑ Yes ☐ No

If Yes:
i. Species and listing (endangered or threatened):
Lake Sturgeon

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☐ Yes ☑ No

If Yes:
i. Species and listing:

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☐ Yes ☑ No
If yes, give a brief description of how the proposed action may affect that use:

E.3. Designated Public Resources On or Near Project Site

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☐ Yes ☑ No
If Yes, provide county plus district name/number:

b. Are agricultural lands consisting of highly productive soils present? ☐ Yes ☐ No
i. If Yes: acreage(s) on project site?
ii. Source(s) of soil rating(s):

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐ Yes ☑ No
If Yes:
i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature
ii. Provide brief description of landmark, including values behind designation and approximate size/extent:

d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? ☐ Yes ☑ No
If Yes:
i. CEA name:
ii. Basis for designation:
iii. Designating agency and date:

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? ☑ Yes ☐ No

If Yes:

i. Nature of historic/archaeological resource: ☐ Archaeological Site ☑ Historic Building or District

ii. Name: Eligible property:Commercial Building at 1225 Niagara St, Eligible property:Commercial Building at 1233 Niagara Stree...

iii. Brief description of attributes on which listing is based:

_____

f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? ☑ Yes ☐ No

g. Have additional archaeological or historic site(s) or resources been identified on the project site? ☐ Yes ☑ No

If Yes:

i. Describe possible resource(s): _____

ii. Basis for identification: _____

h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? ☐ Yes ☑ No

If Yes:

i. Identify resource: _____

ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____

iii. Distance between project and resource: _____ miles.

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? ☐ Yes ☑ No

If Yes:

i. Identify the name of the river and its designation: _____

ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? ☐ Yes ☑ No

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name Rosaleen Nogle. PE Date_____

Signature_____ Title_____

PRINT FORM

EAF Mapper Summary Report

Thursday, July 11, 2024 4:08 PM

Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.

B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Yes - Digital mapping data are not available for all Special Planning Districts. Refer to EAF Workbook.
C.2.b. [Special Planning District - Name]	NYS Heritage Areas:West Erie Canal Corridor
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	Yes
E.1.h.iii [Within 2,000' of DEC Remediation Site - DEC ID]	915176, E915213, C915302, C915330, C915284A, C915330A, C915382, C915364, C915367
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	No
E.2.h.ii [Surface Water Features]	No
E.2.h.iii [Surface Water Features]	No
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	No
E.2.k. [500 Year Floodplain]	No
E.2.l. [Aquifers]	No
E.2.n. [Natural Communities]	No

E.2.o. [Endangered or Threatened Species]	Yes
E.2.o. [Endangered or Threatened Species - Name]	Lake Sturgeon
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Yes - Digital mapping data for archaeological site boundaries are not available. Refer to EAF Workbook.
E.3.e.ii [National or State Register of Historic Places or State Eligible Sites - Name]	Eligible property:Commercial Building at 1225 Niagara St, Eligible property:Commercial Building at 1233 Niagara Street, Eligible property:Commercial Building at 1239 Niagara Street, Eligible property:Manufacturing Building at 1245 Niagara Street, Eligible property:Residence at 1273 Niagara Street, Eligible property:Former American Body Company, Eligible property:Residence at 1277 Niagara Street
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No

Table 1
Buffalo Sewer Authority
Breckenridge CSO Control Project - Proximate NYSDEC Remedial Sites

Site Name	Distance to Project Site	Site Description/Environmental Assessment	Site Health Assessment	Status
Site Name: ChemCore Site Code: 915176 Program: State Superfund Program Address: 1382 Niagara Street City:Buffalo Zip: 14213	650-feet east of West Ave	The ChemCore Site, located at 1382 Niagara Street in Buffalo, NY, was a former chemical wholesale facility now inactive and zoned for commercial use. The site features a 1,000 square foot groundwater treatment system building, with the rest covered by crushed stone, asphalt, and concrete remains. Historically, the property was used for supplying acids, chlorinated solvents, and other chemicals, contributing to subsurface soil and groundwater contamination, leading to its classification as a Class 2 inactive hazardous waste site in 2000. The site's geology includes a fill layer, silty clay, and bedrock, with groundwater primarily flowing south towards the Black Rock Canal. Remediation at the Site is complete. Prior to remediation, the primary contaminants of concern (COCs) for groundwater, soil, and soil vapor were tetrachloroethene (PCE), trichloroethene (TCE), vinyl chloride, and other daughter products of PCE. Remedial actions have successfully achieved soil cleanup objectives for commercial/industrial use. Remaining contamination in the on and off-site groundwater are being managed by a Site Management Plan.	Measures are in place to control the potential for coming in contact with residual contamination remaining at the site.	Remediation at the Site is complete. Remaining contamination in the on and off-site groundwater are being managed by a Site Management Plan.
Site Name: 1318 Niagara Street Site Code: E915213 Program: Environmental Restoration Program Address: 1318 Niagara Street City:Buffalo Zip: 14213	Intersection of Niagara and Lafayette, 650-feet east of West Avenue	The 1318 Niagara Street Site, located in Buffalo, NY, is a vacant lot across from the intersection of Niagara Street and Lafayette Avenue, sloping west and covered with crushed stone. It is bordered by the Penn Central Railroad to the west, NYS I-90, and the Black Rock Canal, with mixed commercial/residential properties nearby and the nearest residential area 150 feet east. The site, formerly a brewery and later used for unknown purposes, has contamination from two 20,000-gallon underground storage tanks (USTs), a furnace pit, and storage of PCB and waste oil drums, leading to a New York State Department of Environmental Conservation Spill Number 0651726. The site's geology includes 8-10 feet of fill, underlain by 8-12 feet of silty clay to limestone bedrock, with shallow groundwater at 20-25 feet flowing west-southwest. Investigations reveal the primary contaminant at the site is PCBs in the soil, with notable concentrations of copper and zinc at specific depths. SVOC indeno(1,2,3-cd)pyrene slightly exceeds unrestricted SCOs, and VOCs are present but below restricted residential levels. Soil contamination, primarily PCBs, extends to native clay at depths of 12 feet or more in certain areas, with elevated levels found in several specific zones. Groundwater contamination includes VOCs and trace PCBs, with no evidence of site-related contaminated groundwater migrating off-site, though some off-site soil contamination was addressed and mitigated.	Measures are in place to control the potential for coming in contact with subsurface soil and groundwater contamination remaining on the site.	Acvtive remedial site
Site Name: 1360 Niagara Street Site Code: C915302 Program: Brownfield Cleanup Program Address: 1336, 1340 and 1360 Niagara Street City:Buffalo Zip: 14213	Intersection of Niagara and Penfield Street, 650-feet east of West Avenue	The 1360 Niagara Street site in Buffalo, NY, covers 1.804 acres and features three parcels separated by Brace Street, including a vacant four-story commercial building and vacant land. It is currently inactive, zoned for commercial use, and surrounded by light industrial, commercial, residential, and utility areas. The site's historical uses, including residential, industrial, and manufacturing activities, have led to contamination from fill, underground storage tanks, and nearby polluted sites. Geologically, the site has 3-4 feet of urban fill over native clay, with groundwater 30-50 feet below ground surface flowing southwest. Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were semi-volatile organic compounds (SVOCs) and metals in soil and volatile organic compounds (VOCs) in groundwater. Remedial actions have successfully achieved soil cleanup objectives for unrestricted use. No further site management is required.	Remedial activities have been completed and have eliminated the potential for contact with site-related contaminants in soil. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into the overlying buildings and affect indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of the buildings, is referred to as soil vapor intrusion. Sampling indicates soil vapor intrusion is not a concern for on-site buildings.	Remediation at the SIte is complete.
Site Name: 1485 - 1491 Niagara Street Site Code: C915330/C915330A Program: Brownfield Cleanup Program Address: 1485 - 1491 Niagara Street City:Buffalo Zip: 14213	1,760 feet northwest of Lafayette Ave and West Ave	The 1485-1491 Niagara Street BCP Site in Buffalo, NY, spans 0.775 acres, bordered by commercial, residential, and industrial properties. The site features two buildings with surrounding paved parking lots, sidewalks, and green space, sloping gently from east to west. Historically, it hosted manufacturing operations using various chemicals, and environmental assessments in 2016 and 2017 revealed contamination from VOCs, SVOCs, and metals. The site, now part of the Brownfield Cleanup Program, has completed Remedial Investigation field activities, and groundwater flows westward towards the Niagara River. The Remedial Investigation in 2018 involved collecting and analyzing samples from various site media, including surface soil/fill, near-surface soil/fill, subsurface fill, native soil, sub-slab soil vapor, indoor air, outdoor air, and groundwater. Key contaminants identified were chlorinated VOCs, 1,4-dioxane, PFOA, select metals, and PAHs, with multiple instances of these exceeding NYSDEC Part 375 Restricted Residential SCOs. Surface and near-surface soil/fill showed high levels of specific PAHs, PCBs, and metals, notably benzo(a)pyrene and lead. Groundwater samples indicated significant exceedances of VOCs like PCE and TCE, along with PFAS compounds. Sub-slab soil vapor, indoor air, and outdoor air samples primarily revealed VOCs like PCE and TCE	NYSDEC currently reviewing BCP application	Active investigations/remediation

Table 1
Buffalo Sewer Authority
Breckenridge CSO Control Project - Proximate NYSDEC Remedial Sites

Site Name	Distance to Project Site	Site Description/Environmental Assessment	Site Health Assessment	Status
Site Name: 1130 Niagara Street Site - Off-site Site Code: C915284A Program: Brownfield Cleanup Program Address: 1130 Niagara Street City:Buffalo Zip: 14213	1,100 feet southwest of Breckenridge St and West Ave	The off-site area, south and west of Ferry and Niagara Streets, is being investigated and possibly remediated for contamination migration from BCP site C915284 under Environmental Conservation Law Section 27-1411.5. This light industrial and commercial zoned area includes industrial properties, road and railway rights-of-way, and features abrupt topography changes, with slopes leading toward the Blackrock Canal/Niagara River. The site geology comprises urban land cover with fill materials, native clay, discontinuous sand, and bedrock primarily of limestone, with groundwater flowing westward towards the canal and river. Contaminants of concern (COC), including TCE levels up to 18,000 ppb, are present in the groundwater from the adjacent BCP site, flowing westward toward the Black Rock Canal. Groundwater flow and transport modeling predicts a TCE concentration of 1.3 ppb reaching the canal, which is below regulatory criteria, indicating minimal impact on surface water quality, aquatic life, and human health. Post-demolition sub-slab vapor samples along the southern property boundary detected TCE at 7,600 ug/m3, confined by the concrete floor slab and building footer, not directly impacting off-site soil vapors. In-situ thermal desorption in 2022 effectively reduced chlorinated VOCs in soil to below site-specific action levels, though post-treatment groundwater monitoring data is pending.	As information for this site becomes available, it will be reviewed by the NYSDOH to determine if site contamination presents public health exposure concerns.	Active investigations/remediation
Site Name: Curtiss Malt House Project Site Code: C915382 Program: Brownfield Cleanup Program Address: 1100 Niagara Street City:Buffalo Zip: 14213	1,500 feet southwest of Breckenridge St and West Ave	The Curtiss Malt House Project site, a 1.559-acre area in Buffalo's Niagara St. corridor, is located northwest of the Albany and Niagara Streets intersection and within the Tonawanda Street Corridor Brownfield Opportunity Area. The site consists of three adjoining parcels with structures including a former malt house, a grain elevator, and remnants of old foundations, all sloping westward toward the Niagara River. Historically an industrial facility since 1899, the site has housed various uses, including grain processing, storage, and art galleries, with recent soil investigations revealing urban land characteristics and groundwater flow westward toward the Niagara River. The BCP application indicates that the site's historical use involved malting and grain storage, which typically would not cause environmental concerns, but recent uses such as motor vehicle repair or light industrial activities could have introduced contamination. Initial findings show minor contamination from metals and SVOCs in shallow urban fill, with chlorinated VOCs in groundwater likely originating from a nearby commercial plating site. No remediation has been conducted, and contaminants are attributed to historic operations, construction practices, and influences from adjacent sites; further details will be provided after the remedial investigation.	Information submitted with the BCP application regarding the conditions at the site are currently under review and will be revised as additional information becomes available.	Active investigations/remediation
Site Name: 1095 Niagara Street Site Site Code: C915364 Program: Brownfield Cleanup Program Address: 1095 Niagara Street City:Buffalo Zip: 14213	1,300 feet southwest of Breckenridge St and West Ave	The 1095 Niagara Street site, approximately 0.94 acres, is located at the northeast corner of Niagara and Albany Streets in Buffalo, NY, bordered by commercial and residential areas, and rail lines. Historically, it was used for chromium plating by Keystone Chromium Corporation from 1936 to 2002 and had earlier uses as a metal alloy foundry and residential property; it was severely damaged by fire in 2005 and demolished in 2008, with the current owner upgrading the surface in 2017. The site's geology includes urban fill materials overlying native silty clay and bedrock, with groundwater found at the soil/bedrock interface; regional flow is west toward the Niagara River, though local conditions may affect groundwater movement. The historic use of the site as a metal plating operation and foundry has impacted the site with volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), and metals. A Remedial Investigation of the site is underway, and a Remedial Investigation Report is expected in early 2024.	Information submitted with the BCP application regarding the conditions at the site are currently under review and will be revised as additional information becomes available.	Active investigations/remediation
Site Name: 1155 Niagara Street Site Site Code: C915367 Program: Brownfield Cleanup Program	900 feet southwest of Breckenridge St and West Ave	The 1155 Niagara Street site, covering 3.64 acres in Buffalo, NY, is located at the intersection of Niagara Street and West Ferry Street, bordered by residential, commercial, and industrial areas. Previously used for various commercial and industrial purposes, including vehicle storage and food processing, the site is now occupied by a media production studio and associated parking. The site's geology includes urban fill, native clays, and limestone bedrock, with groundwater found at depths of 5 to 6 feet, flowing west toward the Niagara River, though local flow may be affected by subsurface features. Remediation of the site is complete. Prior to remediation, the primary contaminants of concern were degraded petroleum products in soil, and polycyclic aromatic hydrocarbons (PAHs), metals, and trace chloro-fluoro refrigerant compounds in groundwater. Remedial actions have successfully achieved soil cleanup objectives for commercial use. Remaining contamination in the soil and groundwater is being managed under a Site Management Plan.	Measures are in place to control the potential for coming in contact with subsurface soil and groundwater contamination remaining on the site.	Remediation at the SIte is complete.

Table 2
Buffalo Sewer Authority
Breckenridge CSO Control Project - Proximate NYSDEC Listed Spill Sites

Spill Information	Distance to Project Site	Spill Description	Record Close Information
Spill Number: 9105845 Spill Date/Time: 08/27/1991 08:00 AM Spill Name: Gelston Street Spillage Spill Address: Breckenridge @ Niagara, Buffalo, NY 14213	0.1 miles to the west of the project area	Material Spilled: Unknown petroleum Amount Spilled: Unknown Resource Affected: Soil Cause/Source: Unknown	Date Spill Closed: 08/30/1991
Spill Number: 9206612 Spill Date/Time: 09/08/1992 11:32 AM Spill Name: Mazzones Pizzeria Spill Address: 1043 West Avenue, Buffalo, NY 14213	Located within project site	Material Spilled: Unknown petroleum Amount Spilled: 55 gallons Resource Affected: Soil Cause/Source: Deliberate, Commerical/Industrial	Date Spill Closed: 09/22/1992
Spill Number: 9304454 Spill Date/Time: 07/01/1993 12:00 PM Spill Name: Breckenridge Auto Wholesale Spill Address: 975 West Avenue, Buffalo, NY 14213	Located within project site	Material Spilled: Waste oil / Used oil Amount Spilled: Unknown Resource Affected: Soil Cause/Source: Unknown, Commerical/Industrial	Date Spill Closed: 11/05/1993
Spill Number: 9410368 Spill Date: 11/03/1994 Spill Time: 10:56:00 AM Spill Name: BUFFALO CITY SANITATION Spill Address: 169 - 175 BRECKENRIDGE	Located within project site	Material Spilled: Unknown Amount Spilled: Unknown Resource Affected: Soil Cause/Source: Commerical/Vehicle	Date Spill Closed: 03/28/1995
Spill Number: 9311077 Spill Date: 12/01/1993 Spill Time: 12:00:00 PM Spill Name: MAYO'S GARAGE Address: 975 WEST AVENUE	Located within project site	Material Spilled: Waste oil / Used oil Amount Spilled: Unknown Resource Affected: Soil Cause/Source: Houskeeping, Commerical/Industrial	Date Spill Closed: 12/30/1993
Spill Number: 9406474 Spill Date/Time: 08/10/1994 15:40 PM Spill Name: West Side Auto Clinic Spill Address: 975 West Avenue, Buffalo, NY 14213	Located within project site	Material Spilled: Transmission Fluid / Waste Oil Amount Spilled: Unknown / 8 gallons Resource Affected: Soil Cause/Source: Deliberate, Commerical/Industrial	Date Spill Closed: 03/03/1995
Spill Number: 9410467 Spill Date/Time: 11/03/1994 13:30 PM Spill Name: William Laporta Garage Spill Address: 975 West Avenue, Buffalo, NY 14213	Located within project site	Material Spilled: Waste oil / Used oil Amount Spilled: Unknown Resource Affected: Sewer Cause/Source: Houskeeping, Commerical/Industrial	Date Spill Closed: 08/11/1994

Involved/Interested Agencies

City of Buffalo Common Council Niagara District
David Rivera(via email)
darivera@city-buffalo.com

City of Buffalo Department of Public Works, Parks & Streets
Nate Marton, Commissioner (via email)
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City of Buffalo Department of Public Works, Parks & Streets – Parks
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City of Buffalo Department of Public Works, Parks & Streets
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New York State Department of State
Coastal Management Program
99 Washington Avenue
Albany, NY 12231-0001

New York State Department of Transportation
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100 Seneca Street
Buffalo, NY 14203

New York State Department of Environmental Conservation
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City of Buffalo Office of Strategic Planning
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281 Exchange St, Buffalo, NY 14204

Buffalo Environmental Management Commission
Jason Paananen (via email)
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920 City Hall
65 Niagara Square
Buffalo, NY 14202

Erie County Department of Health
Jack Tomani (via email)
John.tomani@erie.gov
95 Franklin Street
Buffalo, NY 14202

New York State Historic Preservation Office (consultation completed online)
1 Delaware Avenue North, Cohoes, NY 12047

U.S. Fish and Wildlife Service (consultation completed online)
1849 C Street, NW
Washington, DC 20240

BUFFALO
SEWER AUTHORITY

ATTACHMENT A-2

Agency Use Only [If applicable]

Project : Breckenridge Street CSO

Date : 08/14/2024

Full Environmental Assessment Form
Part 2 - Identification of Potential Project Impacts

Part 2 is to be completed by the lead agency. Part 2 is designed to help the lead agency inventory all potential resources that could be affected by a proposed project or action. We recognize that the lead agency's reviewer(s) will not necessarily be environmental professionals. So, the questions are designed to walk a reviewer through the assessment process by providing a series of questions that can be answered using the information found in Part 1. To further assist the lead agency in completing Part 2, the form identifies the most relevant questions in Part 1 that will provide the information needed to answer the Part 2 question. When Part 2 is completed, the lead agency will have identified the relevant environmental areas that may be impacted by the proposed activity.

If the lead agency is a state agency **and** the action is in any Coastal Area, complete the Coastal Assessment Form before proceeding with this assessment.

Tips for completing Part 2:

- Review all of the information provided in Part 1.
- Review any application, maps, supporting materials and the Full EAF Workbook.
- Answer each of the 18 questions in Part 2.
- If you answer "**Yes"** to a numbered question, please complete all the questions that follow in that section.
- If you answer "**No"** to a numbered question, move on to the next numbered question.
- Check appropriate column to indicate the anticipated size of the impact.
- Proposed projects that would exceed a numeric threshold contained in a question should result in the reviewing agency checking the box "Moderate to large impact may occur."
- The reviewer is not expected to be an expert in environmental analysis.
- If you are not sure or undecided about the size of an impact, it may help to review the sub-questions for the general question and consult the workbook.
- When answering a question consider all components of the proposed activity, that is, the "whole action".
- Consider the possibility for long-term and cumulative impacts as well as direct impacts.
- Answer the question in a reasonable manner considering the scale and context of the project.

1. Impact on Land

Proposed action may involve construction on, or physical alteration of, the land surface of the proposed site. (See Part 1. D.1)

☐ NO ☑ YES

If "Yes", answer questions a - j. If "No", move on to Section 2.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may involve construction on land where depth to water table is less than 3 feet.	E2d	☑	☐
b. The proposed action may involve construction on slopes of 15% or greater.	E2f	☑	☐
c. The proposed action may involve construction on land where bedrock is exposed, or generally within 5 feet of existing ground surface.	E2a	☑	☐
d. The proposed action may involve the excavation and removal of more than 1,000 tons of natural material.	D2a	☐	☑
e. The proposed action may involve construction that continues for more than one year or in multiple phases.	D1e	☐	☑
f. The proposed action may result in increased erosion, whether from physical disturbance or vegetation removal (including from treatment by herbicides).	D2e, D2q	☑	☐
g. The proposed action is, or may be, located within a Coastal Erosion hazard area.	B1i	☑	☐
h. Other impacts: _____		☑	☐

2. Impact on Geological Features

The proposed action may result in the modification or destruction of, or inhibit access to, any unique or unusual land forms on the site (e.g., cliffs, dunes, minerals, fossils, caves). (See Part 1. E.2.g)

☑ NO ☐ YES

If "Yes", answer questions a - c. If "No", move on to Section 3.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Identify the specific land form(s) attached: _____ _____	E2g	☐	☐
b. The proposed action may affect or is adjacent to a geological feature listed as a registered National Natural Landmark. Specific feature: _____	E3c	☐	☐
c. Other impacts: _____ _____		☐	☐

3. Impacts on Surface Water

The proposed action may affect one or more wetlands or other surface water bodies (e.g., streams, rivers, ponds or lakes). (See Part 1. D.2, E.2.h)

☑ NO ☐ YES

If "Yes", answer questions a - l. If "No", move on to Section 4.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may create a new water body.	D2b, D1h	☐	☐
b. The proposed action may result in an increase or decrease of over 10% or more than a 10 acre increase or decrease in the surface area of any body of water.	D2b	☐	☐
c. The proposed action may involve dredging more than 100 cubic yards of material from a wetland or water body.	D2a	☐	☐
d. The proposed action may involve construction within or adjoining a freshwater or tidal wetland, or in the bed or banks of any other water body.	E2h	☐	☐
e. The proposed action may create turbidity in a waterbody, either from upland erosion, runoff or by disturbing bottom sediments.	D2a, D2h	☐	☐
f. The proposed action may include construction of one or more intake(s) for withdrawal of water from surface water.	D2c	☐	☐
g. The proposed action may include construction of one or more outfall(s) for discharge of wastewater to surface water(s).	D2d	☐	☐
h. The proposed action may cause soil erosion, or otherwise create a source of stormwater discharge that may lead to siltation or other degradation of receiving water bodies.	D2e	☐	☐
i. The proposed action may affect the water quality of any water bodies within or downstream of the site of the proposed action.	E2h	☐	☐
j. The proposed action may involve the application of pesticides or herbicides in or around any water body.	D2q, E2h	☐	☐
k. The proposed action may require the construction of new, or expansion of existing, wastewater treatment facilities.	D1a, D2d	☐	☐

l. Other impacts: _____ _____		□	□

4. Impact on groundwater

The proposed action may result in new or additional use of ground water, or may have the potential to introduce contaminants to ground water or an aquifer. (See Part 1. D.2.a, D.2.c, D.2.d, D.2.p, D.2.q, D.2.t)

☑ NO ☐ YES

If "Yes", answer questions a - h. If "No", move on to Section 5.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may require new water supply wells, or create additional demand on supplies from existing water supply wells.	D2c	□	□
b. Water supply demand from the proposed action may exceed safe and sustainable withdrawal capacity rate of the local supply or aquifer. Cite Source: _____	D2c	□	□
c. The proposed action may allow or result in residential uses in areas without water and sewer services.	D1a, D2c	□	□
d. The proposed action may include or require wastewater discharged to groundwater.	D2d, E2l	□	□
e. The proposed action may result in the construction of water supply wells in locations where groundwater is, or is suspected to be, contaminated.	D2c, E1f, E1g, E1h	□	□
f. The proposed action may require the bulk storage of petroleum or chemical products over ground water or an aquifer.	D2p, E2l	□	□
g. The proposed action may involve the commercial application of pesticides within 100 feet of potable drinking water or irrigation sources.	E2h, D2q, E2l, D2c	□	□
h. Other impacts: _____ _____		□	□

5. Impact on Flooding

The proposed action may result in development on lands subject to flooding. (See Part 1. E.2)

☑ NO ☐ YES

If "Yes", answer questions a - g. If "No", move on to Section 6.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in development in a designated floodway.	E2i	□	□
b. The proposed action may result in development within a 100 year floodplain.	E2j	□	□
c. The proposed action may result in development within a 500 year floodplain.	E2k	□	□
d. The proposed action may result in, or require, modification of existing drainage patterns.	D2b, D2e	□	□
e. The proposed action may change flood water flows that contribute to flooding.	D2b, E2i, E2j, E2k	□	□
f. If there is a dam located on the site of the proposed action, is the dam in need of repair, or upgrade?	E1e	□	□

g. Other impacts: _____ _____		☐	☐

6. Impacts on Air

The proposed action may include a state regulated air emission source. (See Part 1. D.2.f., D.2.h, D.2.g) ☑ NO ☐ YES

If "Yes", answer questions a - f. If "No", move on to Section 7.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. If the proposed action requires federal or state air emission permits, the action may also emit one or more greenhouse gases at or above the following levels:			
i. More than 1000 tons/year of carbon dioxide (CO_2)	D2g	☐	☐
ii. More than 3.5 tons/year of nitrous oxide (N_2O)	D2g	☐	☐
iii. More than 1000 tons/year of carbon equivalent of perfluorocarbons (PFCs)	D2g	☐	☐
iv. More than .045 tons/year of sulfur hexafluoride (SF_6)	D2g	☐	☐
v. More than 1000 tons/year of carbon dioxide equivalent of hydrochloroflourocarbons (HFCs) emissions	D2g	☐	☐
vi. 43 tons/year or more of methane	D2h	☐	☐
b. The proposed action may generate 10 tons/year or more of any one designated hazardous air pollutant, or 25 tons/year or more of any combination of such hazardous air pollutants.	D2g	☐	☐
c. The proposed action may require a state air registration, or may produce an emissions rate of total contaminants that may exceed 5 lbs. per hour, or may include a heat source capable of producing more than 10 million BTU's per hour.	D2f, D2g	☐	☐
d. The proposed action may reach 50% of any of the thresholds in "a" through "c", above.	D2g	☐	☐
e. The proposed action may result in the combustion or thermal treatment of more than 1 ton of refuse per hour.	D2s	☐	☐
f. Other impacts: _____		☐	☐

7. Impact on Plants and Animals

The proposed action may result in a loss of flora or fauna. (See Part 1. E.2. m.-q.) ☑ NO ☐ YES

If "Yes", answer questions a - j. If "No", move on to Section 8.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may cause reduction in population or loss of individuals of any threatened or endangered species, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2o	☐	☐
b. The proposed action may result in a reduction or degradation of any habitat used by any rare, threatened or endangered species, as listed by New York State or the federal government.	E2o	☐	☐
c. The proposed action may cause reduction in population, or loss of individuals, of any species of special concern or conservation need, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2p	☐	☐
d. The proposed action may result in a reduction or degradation of any habitat used by any species of special concern and conservation need, as listed by New York State or the Federal government.	E2p	☐	☐

e. The proposed action may diminish the capacity of a registered National Natural Landmark to support the biological community it was established to protect.	E3c	☐	☐
f. The proposed action may result in the removal of, or ground disturbance in, any portion of a designated significant natural community. Source: _____	E2n	☐	☐
g. The proposed action may substantially interfere with nesting/breeding, foraging, or over-wintering habitat for the predominant species that occupy or use the project site.	E2m	☐	☐
h. The proposed action requires the conversion of more than 10 acres of forest, grassland or any other regionally or locally important habitat. Habitat type & information source: _____ _____	E1b	☐	☐
i. Proposed action (commercial, industrial or recreational projects, only) involves use of herbicides or pesticides.	D2q	☐	☐
j. Other impacts: _____ _____		☐	☐

8. Impact on Agricultural Resources

The proposed action may impact agricultural resources. (See Part 1. E.3.a. and b.) ☑ NO ☐ YES

If "Yes", answer questions a - h. If "No", move on to Section 9.

	Relevant Part I Question(s)	**No, or small impact may occur**	**Moderate to large impact may occur**
a. The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System.	E2c, E3b	☐	☐
b. The proposed action may sever, cross or otherwise limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc).	E1a, Elb	☐	☐
c. The proposed action may result in the excavation or compaction of the soil profile of active agricultural land.	E3b	☐	☐
d. The proposed action may irreversibly convert agricultural land to non-agricultural uses, either more than 2.5 acres if located in an Agricultural District, or more than 10 acres if not within an Agricultural District.	E1b, E3a	☐	☐
e. The proposed action may disrupt or prevent installation of an agricultural land management system.	El a, E1b	☐	☐
f. The proposed action may result, directly or indirectly, in increased development potential or pressure on farmland.	C2c, C3, D2c, D2d	☐	☐
g. The proposed project is not consistent with the adopted municipal Farmland Protection Plan.	C2c	☐	☐
h. Other impacts: _____		☐	☐

9. Impact on Aesthetic Resources

The land use of the proposed action are obviously different from, or are in sharp contrast to, current land use patterns between the proposed project and a scenic or aesthetic resource. (Part 1. E.1.a, E.1.b, E.3.h.)

☑ NO ☐ YES

If "Yes", answer questions a - g. If "No", go to Section 10.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Proposed action may be visible from any officially designated federal, state, or local scenic or aesthetic resource.	E3h	☐	☐
b. The proposed action may result in the obstruction, elimination or significant screening of one or more officially designated scenic views.	E3h, C2b	☐	☐
c. The proposed action may be visible from publicly accessible vantage points: i. Seasonally (e.g., screened by summer foliage, but visible during other seasons) ii. Year round	E3h	 ☐ ☐	 ☐ ☐
d. The situation or activity in which viewers are engaged while viewing the proposed action is: i. Routine travel by residents, including travel to and from work ii. Recreational or tourism based activities	E3h E2q, E1c	 ☐ ☐	 ☐ ☐
e. The proposed action may cause a diminishment of the public enjoyment and appreciation of the designated aesthetic resource.	E3h	☐	☐
f. There are similar projects visible within the following distance of the proposed project: 0-1/2 mile ½ -3 mile 3-5 mile 5+ mile	D1a, E1a, D1f, D1g	☐	☐
g. Other impacts: _____ _____		☐	☐

10. Impact on Historic and Archeological Resources

The proposed action may occur in or adjacent to a historic or archaeological resource. (Part 1. E.3.e, f. and g.)

☑ NO ☐ YES

If "Yes", answer questions a - e. If "No", go to Section 11.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may occur wholly or partially within, or substantially contiguous to, any buildings, archaeological site or district which is listed on the National or State Register of Historical Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places.	E3e	☐	☐
b. The proposed action may occur wholly or partially within, or substantially contiguous to, an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory.	E3f	☐	☐
c. The proposed action may occur wholly or partially within, or substantially contiguous to, an archaeological site not included on the NY SHPO inventory. Source: _____	E3g	☐	☐

d. Other impacts: _____ _____		□	□
e. If any of the above (a-d) are answered "Moderate to large impact may occur", continue with the following questions to help support conclusions in Part 3:			
i. The proposed action may result in the destruction or alteration of all or part of the site or property.	E3e, E3g, E3f	□	□
ii. The proposed action may result in the alteration of the property's setting or integrity.	E3e, E3f, E3g, E1a, E1b	□	□
iii. The proposed action may result in the introduction of visual elements which are out of character with the site or property, or may alter its setting.	E3e, E3f, E3g, E3h, C2, C3	□	□

11. Impact on Open Space and Recreation

The proposed action may result in a loss of recreational opportunities or a reduction of an open space resource as designated in any adopted municipal open space plan.
(See Part 1. C.2.c, E.1.c., E.2.q.)
If "Yes", answer questions a - e. If "No", go to Section 12.

☑ NO ☐ YES

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in an impairment of natural functions, or "ecosystem services", provided by an undeveloped area, including but not limited to stormwater storage, nutrient cycling, wildlife habitat.	D2e, E1b E2h, E2m, E2o, E2n, E2p	□	□
b. The proposed action may result in the loss of a current or future recreational resource.	C2a, E1c, C2c, E2q	□	□
c. The proposed action may eliminate open space or recreational resource in an area with few such resources.	C2a, C2c E1c, E2q	□	□
d. The proposed action may result in loss of an area now used informally by the community as an open space resource.	C2c, E1c	□	□
e. Other impacts: _____ _____		□	□

12. Impact on Critical Environmental Areas

The proposed action may be located within or adjacent to a critical environmental area (CEA). (See Part 1. E.3.d)
If "Yes", answer questions a - c. If "No", go to Section 13.

☑ NO ☐ YES

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in a reduction in the quantity of the resource or characteristic which was the basis for designation of the CEA.	E3d	□	□
b. The proposed action may result in a reduction in the quality of the resource or characteristic which was the basis for designation of the CEA.	E3d	□	□
c. Other impacts: _____ _____		□	□

13. Impact on Transportation

The proposed action may result in a change to existing transportation systems. ☑ NO ☐ YES
(See Part 1. D.2.j)
If "Yes", answer questions a - f. If "No", go to Section 14.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Projected traffic increase may exceed capacity of existing road network.	D2j	☐	☐
b. The proposed action may result in the construction of paved parking area for 500 or more vehicles.	D2j	☐	☐
c. The proposed action will degrade existing transit access.	D2j	☐	☐
d. The proposed action will degrade existing pedestrian or bicycle accommodations.	D2j	☐	☐
e. The proposed action may alter the present pattern of movement of people or goods.	D2j	☐	☐
f. Other impacts: _____		☐	☐

14. Impact on Energy

The proposed action may cause an increase in the use of any form of energy. ☑ NO ☐ YES
(See Part 1. D.2.k)
If "Yes", answer questions a - e. If "No", go to Section 15.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action will require a new, or an upgrade to an existing, substation.	D2k	☐	☐
b. The proposed action will require the creation or extension of an energy transmission or supply system to serve more than 50 single or two-family residences or to serve a commercial or industrial use.	D1f, D1q, D2k	☐	☐
c. The proposed action may utilize more than 2,500 MWhrs per year of electricity.	D2k	☐	☐
d. The proposed action may involve heating and/or cooling of more than 100,000 square feet of building area when completed.	D1g	☐	☐
e. Other Impacts: _____			

15. Impact on Noise, Odor, and Light

The proposed action may result in an increase in noise, odors, or outdoor lighting. ☑ NO ☐ YES
(See Part 1. D.2.m., n., and o.)
If "Yes", answer questions a - f. If "No", go to Section 16.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may produce sound above noise levels established by local regulation.	D2m	☐	☐
b. The proposed action may result in blasting within 1,500 feet of any residence, hospital, school, licensed day care center, or nursing home.	D2m, E1d	☐	☐
c. The proposed action may result in routine odors for more than one hour per day.	D2o	☐	☐

d. The proposed action may result in light shining onto adjoining properties.	D2n	☐	☐
e. The proposed action may result in lighting creating sky-glow brighter than existing area conditions.	D2n, E1a	☐	☐
f. Other impacts: _____ _____		☐	☐

16. Impact on Human Health

The proposed action may have an impact on human health from exposure to new or existing sources of contaminants. (See Part 1.D.2.q., E.1. d. f. g. and h.) ☑ NO ☐ YES

If "Yes", answer questions a - m. If "No", go to Section 17.

	Relevant Part I Question(s)	No,or small impact may cccur	Moderate to large impact may occur
a. The proposed action is located within 1500 feet of a school, hospital, licensed day care center, group home, nursing home or retirement community.	E1d	☐	☐
b. The site of the proposed action is currently undergoing remediation.	E1g, E1h	☐	☐
c. There is a completed emergency spill remediation, or a completed environmental site remediation on, or adjacent to, the site of the proposed action.	E1g, E1h	☐	☐
d. The site of the action is subject to an institutional control limiting the use of the property (e.g., easement or deed restriction).	E1g, E1h	☐	☐
e. The proposed action may affect institutional control measures that were put in place to ensure that the site remains protective of the environment and human health.	E1g, E1h	☐	☐
f. The proposed action has adequate control measures in place to ensure that future generation, treatment and/or disposal of hazardous wastes will be protective of the environment and human health.	D2t	☐	☐
g. The proposed action involves construction or modification of a solid waste management facility.	D2q, E1f	☐	☐
h. The proposed action may result in the unearthing of solid or hazardous waste.	D2q, E1f	☐	☐
i. The proposed action may result in an increase in the rate of disposal, or processing, of solid waste.	D2r, D2s	☐	☐
j. The proposed action may result in excavation or other disturbance within 2000 feet of a site used for the disposal of solid or hazardous waste.	E1f, E1g E1h	☐	☐
k. The proposed action may result in the migration of explosive gases from a landfill site to adjacent off site structures.	E1f, E1g	☐	☐
l. The proposed action may result in the release of contaminated leachate from the project site.	D2s, E1f, D2r	☐	☐
m. Other impacts: _____ _____			

17. Consistency with Community Plans

The proposed action is not consistent with adopted land use plans. ☑ NO ☐ YES

(See Part 1. C.1, C.2. and C.3.)

If "Yes", answer questions a - h. If "No", go to Section 18.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action's land use components may be different from, or in sharp contrast to, current surrounding land use pattern(s).	C2, C3, D1a E1a, E1b	☐	☐
b. The proposed action will cause the permanent population of the city, town or village in which the project is located to grow by more than 5%.	C2	☐	☐
c. The proposed action is inconsistent with local land use plans or zoning regulations.	C2, C2, C3	☐	☐
d. The proposed action is inconsistent with any County plans, or other regional land use plans.	C2, C2	☐	☐
e. The proposed action may cause a change in the density of development that is not supported by existing infrastructure or is distant from existing infrastructure.	C3, D1c, D1d, D1f, D1d, Elb	☐	☐
f. The proposed action is located in an area characterized by low density development that will require new or expanded public infrastructure.	C4, D2c, D2d D2j	☐	☐
g. The proposed action may induce secondary development impacts (e.g., residential or commercial development not included in the proposed action)	C2a	☐	☐
h. Other: _____		☐	☐

18. Consistency with Community Character

The proposed project is inconsistent with the existing community character. ☑ NO ☐ YES

(See Part 1. C.2, C.3, D.2, E.3)

If "Yes", answer questions a - g. If "No", proceed to Part 3.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may replace or eliminate existing facilities, structures, or areas of historic importance to the community.	E3e, E3f, E3g	☐	☐
b. The proposed action may create a demand for additional community services (e.g. schools, police and fire)	C4	☐	☐
c. The proposed action may displace affordable or low-income housing in an area where there is a shortage of such housing.	C2, C3, D1f D1g, E1a	☐	☐
d. The proposed action may interfere with the use or enjoyment of officially recognized or designated public resources.	C2, E3	☐	☐
e. The proposed action is inconsistent with the predominant architectural scale and character.	C2, C3	☐	☐
f. Proposed action is inconsistent with the character of the existing natural landscape.	C2, C3 E1a, E1b E2g, E2h	☐	☐
g. Other impacts: _____		☐	☐

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ATTACHMENT A-3

Agency Use Only [IfApplicable]

Project : Breckenridge Street

Date : 9/6/2024

Full Environmental Assessment Form
Part 3 - Evaluation of the Magnitude and Importance of Project Impacts
and
Determination of Significance

Part 3 provides the reasons in support of the determination of significance. The lead agency must complete Part 3 for every question in Part 2 where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse environmental impact.

Based on the analysis in Part 3, the lead agency must decide whether to require an environmental impact statement to further assess the proposed action or whether available information is sufficient for the lead agency to conclude that the proposed action will not have a significant adverse environmental impact. By completing the certification on the next page, the lead agency can complete its determination of significance.

Reasons Supporting This Determination:

To complete this section:

- Identify the impact based on the Part 2 responses and describe its magnitude. Magnitude considers factors such as severity, size or extent of an impact.
- Assess the importance of the impact. Importance relates to the geographic scope, duration, probability of the impact occurring, number of people affected by the impact and any additional environmental consequences if the impact were to occur.
- The assessment should take into consideration any design element or project changes.
- Repeat this process for each Part 2 question where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse environmental impact.
- Provide the reason(s) why the impact may, or will not, result in a significant adverse environmental impact
- For Conditional Negative Declarations identify the specific condition(s) imposed that will modify the proposed action so that no significant adverse environmental impacts will result.
- Attach additional sheets, as needed.

See attached significance statement.

Determination of Significance - Type 1 and Unlisted Actions

SEQR Status: ☑ Type 1 ☐ Unlisted

Identify portions of EAF completed for this Project: ☑ Part 1 ☑ Part 2 ☑ Part 3

Upon review of the information recorded on this EAF, as noted, plus this additional support information

and considering both the magnitude and importance of each identified potential impact, it is the conclusion of the Buffalo Sewer Authority as lead agency that:

☑ A. This project will result in no significant adverse impacts on the environment, and, therefore, an environmental impact statement need not be prepared. Accordingly, this negative declaration is issued.

☐ B. Although this project could have a significant adverse impact on the environment, that impact will be avoided or substantially mitigated because of the following conditions which will be required by the lead agency:

There will, therefore, be no significant adverse impacts from the project as conditioned, and, therefore, this conditioned negative declaration is issued. A conditioned negative declaration may be used only for UNLISTED actions (see 6 NYCRR 617.7(d)).

☐ C. This Project may result in one or more significant adverse impacts on the environment, and an environmental impact statement must be prepared to further assess the impact(s) and possible mitigation and to explore alternatives to avoid or reduce those impacts. Accordingly, this positive declaration is issued.

Name of Action: Breckenridge Combined Sewer Overflow (CSO) Project

Name of Lead Agency: Buffalo Sewer Authority

Name of Responsible Officer in Lead Agency: Oluwole McFoy

Title of Responsible Officer: General Manager

Signature of Responsible Officer in Lead Agency: Date:

Signature of Preparer (if different from Responsible Officer) Elizabeth Tramposch Date: 09/06/2024

For Further Information:

Contact Person: Elizabeth Tramposch, PE - CORE Environmental Consultants, Inc.

Address: 2312 Wehrle Drive, Buffalo, NY 14221

Telephone Number: (716) 204-8054

E-mail: emt@coreenv.com

For Type 1 Actions and Conditioned Negative Declarations, a copy of this Notice is sent to:

Chief Executive Officer of the political subdivision in which the action will be principally located (e.g., Town / City / Village of)
Other involved agencies (if any)
Applicant (if any)
Environmental Notice Bulletin: http://www.dec.ny.gov/enb/enb.html

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ATTACHMENT B-1

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: Sidney St and Lark St -CSO053_1.4 SP336B RTC (Sidney RTC)		
Project Location (describe, and attach a general location map): At the intersection of Sidney St. and Lark St., Buffalo, NY		
Brief Description of Proposed Action (include purpose or need): The Sidney RTC will be an underground control structure connecting the Humboldt Parkway Sewer and the Scajaquada Tunnel Interceptor. It will be situated at the intersection of Humboldt Parkway and Sidney Street, utilizing properties owned by the City of Buffalo at Sidney Street and Lark Street to house electrical components. The design includes a new 48" gravity sewer running east from the Humboldt Parkway Sewer, then north on Lark Street to complete the interconnection. This sewer will connect to the Scajaquada Tunnel Interceptor via a drop shaft approximately 400 feet south of Northland Avenue and Lark Street, at a depth of approximately 35 to 40 feet below grade. The installation is anticipated to be executed via open cut. The RTC will feature a modulating gate connected to SCADA to balance flow between the Humboldt Parkway Sewer and the Scajaquada Tunnel Interceptor during rain events. The design will encompass: Cast-in-place diversion chamber Remote monitoring and control systems for automated operation and maintenance Civil-site improvements (stormwater management, landscaping, erosion and sediment control, water main replacement)		
Name of Applicant/Sponsor: Bufalo Sewer Authority	Telephone: 716-851-5664 Ext. 4203 E-Mail: rnogle@buffalosewer.org	
Address: 5 Niagara Square # 1038		
City/PO: Buffalo	State: NY	Zip Code: 14202
Project Contact (if not same as sponsor; give name and title/role): Rosaleen B. Nogle, PE, BCEE, PMP	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor):	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Counsel, Town Board, or Village Board of Trustees ☑Yes ☐No	City of Buffalo Common Council Masten District	
b. City, Town or Village Planning Board or Commission ☐Yes ☑No	City of Buffalo Office of Strategic Planning	
c. City, Town or Village Zoning Board of Appeals ☐Yes ☑No		
d. Other local agencies ☑Yes ☐No	City of Buffalo Department of Public Works, Parks & Streets	
e. County agencies ☑Yes ☐No	Erie County Department of Health	
f. Regional agencies ☐Yes ☑No		
g. State agencies ☑Yes ☐No	SHPO/ Cultural Resources Determination, See attached sheet for additional involved agencies	
h. Federal agencies ☑Yes ☐No	USFWS, Section 7 Endangered Species Act	

i. Coastal Resources.

i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? ☐Yes ☑No

ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? ☐Yes ☑No

iii. Is the project site within a Coastal Erosion Hazard Area? ☐Yes ☑No

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? ☐Yes ☑No

- **If Yes,** complete sections C, F and G.
- **If No,** proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? ☐Yes ☑No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? ☐Yes ☑No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) ☑Yes ☐No

If Yes, identify the plan(s):

NYS Heritage Areas:West Erie Canal Corridor

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? ☐Yes ☑No

If Yes, identify the plan(s):

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☑ Yes ☐ No
If Yes, what is the zoning classification(s) including any applicable overlay district?
The area is classified as N-3R residential through the City of Buffalo Property viewer

b. Is the use permitted or allowed by a special or conditional use permit? ☐ Yes ☑ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☑ No
If Yes,
i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? Buffalo City School District

b. What police or other public protection forces serve the project site?
City of Buffalo Police District E

c. Which fire protection and emergency medical services serve the project site?
Northland Hospital Opportunity Zone, Buffalo Fire Department Engine 33

d. What parks serve the project site?

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Municipal/utility work

b. a. Total acreage of the site of the proposed action? 0.5 acres
b. Total acreage to be physically disturbed? 0.5 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 0 acres

c. Is the proposed action an expansion of an existing project or use? ☑ Yes ☐ No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: Utility Installation

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☑ No
If Yes,
i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)

ii. Is a cluster/conservation layout proposed? ☐ Yes ☑ No
iii. Number of lots proposed? _____
iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will the proposed action be constructed in multiple phases? ☐ Yes ☑ No
i. If No, anticipated period of construction: 60 months
ii. If Yes:
- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____year
- Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

f. Does the project include new residential uses? ☐Yes ☑No

If Yes, show numbers of units proposed.

	One Family	Two Family	Three Family	Multiple Family (four or more)
Initial Phase	_____	_____	_____	_____
At completion of all phases	_____	_____	_____	_____

g. Does the proposed action include new non-residential construction (including expansions)? ☐Yes ☑No

If Yes,

i. Total number of structures _____

ii. Dimensions (in feet) of largest proposed structure: _____height; _____width; and _____ length

iii. Approximate extent of building space to be heated or cooled: _____ square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☐Yes ☑No

If Yes,

i. Purpose of the impoundment: _____

ii. If a water impoundment, the principal source of the water: ☐ Ground water ☐ Surface water streams ☐Other specify:

_____

iii. If other than water, identify the type of impounded/contained liquids and their source.

_____

iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres

v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete):

_____

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite) ☐Yes ☑No

If Yes:

i .What is the purpose of the excavation or dredging? _____

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): _____
- Over what duration of time? _____

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.

_____

_____

iv. Will there be onsite dewatering or processing of excavated materials? ☐Yes ☑No

If yes, describe. _____

_____

v. What is the total area to be dredged or excavated? _____acres

vi. What is the maximum area to be worked at any one time? _____ acres

vii. What would be the maximum depth of excavation or dredging? _____ feet

viii. Will the excavation require blasting? ☐Yes ☑No

ix. Summarize site reclamation goals and plan: _____

_____

_____

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? ☐Yes ☑No

If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____

_____

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

_____

_____

_____

_____

iii. Will the proposed action cause or result in disturbance to bottom sediments? ☐Yes ☐No

If Yes, describe: _____

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? ☐Yes ☐No

If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion: _____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____

_____

- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

_____

c. Will the proposed action use, or create a new demand for water? ☐Yes ☑No

If Yes:

i. Total anticipated water usage/demand per day: _____ gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☐Yes ☐No

If Yes:

- Name of district or service area: _____
- Does the existing public water supply have capacity to serve the proposal? ☐Yes ☐No
- Is the project site in the existing district? ☐Yes ☐No
- Is expansion of the district needed? ☐Yes ☐No
- Do existing lines serve the project site? ☐Yes ☐No

iii. Will line extension within an existing district be necessary to supply the project? ☐Yes ☐No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

_____

- Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐Yes ☐No

If, Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

_____

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☐Yes ☑No

If Yes:

i. Total anticipated liquid waste generation per day: _____ gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

_____

_____

iii. Will the proposed action use any existing public wastewater treatment facilities? ☑Yes ☐No

If Yes:

- Name of wastewater treatment plant to be used: Bird Island WWTP
- Name of district: Buffalo
- Does the existing wastewater treatment plant have capacity to serve the project? ☑Yes ☐No
- Is the project site in the existing district? ☑Yes ☐No
- Is expansion of the district needed? ☐Yes ☑No

- Do existing sewer lines serve the project site? ☑ Yes ☐ No
- Will a line extension within an existing district be necessary to serve the project? ☐ Yes ☑ No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

Project includes installation of new sewer lines.

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? ☐ Yes ☑ No

If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

_____

_____

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

_____

_____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? ☐ Yes ☑ No

If Yes:

i. How much impervious surface will the project create in relation to total size of project parcel?

_____ Square feet or _____ acres (impervious surface)

_____ Square feet or _____ acres (parcel size)

ii. Describe types of new point sources. _____

_____

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

_____

_____

- If to surface waters, identify receiving water bodies or wetlands: _____

_____

_____

- Will stormwater runoff flow to adjacent properties? ☐ Yes ☑ No

iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? ☐ Yes ☑ No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? ☐ Yes ☑ No

If Yes, identify:

i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

_____

ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

_____

iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

_____

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? ☐ Yes ☑ No

If Yes:

i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) ☐ Yes ☑ No

ii. In addition to emissions as calculated in the application, the project will generate:

- _____Tons/year (short tons) of Carbon Dioxide (CO_2)
- _____Tons/year (short tons) of Nitrous Oxide (N_2O)
- _____Tons/year (short tons) of Perfluorocarbons (PFCs)
- _____Tons/year (short tons) of Sulfur Hexafluoride (SF_6)
- _____Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)
- _____Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? ☐Yes ☑No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

_____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? ☐Yes ☑No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):

_____

_____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? ☐Yes ☑No

If Yes:

i. When is the peak traffic expected (Check all that apply): ☐ Morning ☐ Evening ☐Weekend

☐ Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____

_____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? ☐Yes ☐No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe:

_____

vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? ☐Yes ☐No

vii Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? ☐Yes ☐No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? ☐Yes ☐No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? ☐Yes ☑No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____

_____

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other):

_____

iii. Will the proposed action require a new, or an upgrade, to an existing substation? ☐Yes ☑No

l. Hours of operation. Answer all items which apply.

i. During Construction:

- Monday - Friday: 8 am - 4 pm
- Saturday: _____
- Sunday: _____
- Holidays: _____

ii. During Operations:

- Monday - Friday: N/A
- Saturday: N/A
- Sunday: N/A
- Holidays: N/A

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? ☐ Yes ☑ No

If yes:

i. Provide details including sources, time of day and duration:

_____

_____

ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? ☐ Yes ☐ No

Describe: _____

_____

n. Will the proposed action have outdoor lighting? ☑ Yes ☐ No

If yes:

i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

The proposed RTC project will require a utility building to house electrical components that may require some outdoor lighting.

_____

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? ☐ Yes ☑ No

Describe: _____

_____

o. Does the proposed action have the potential to produce odors for more than one hour per day? ☐ Yes ☑ No

If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____

_____

_____

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? ☐ Yes ☑ No

If Yes:

i. Product(s) to be stored _____

ii. Volume(s) _____ per unit time _____ (e.g., month, year)

iii. Generally, describe the proposed storage facilities:_____

_____

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ☐ Yes ☑ No

If Yes:

i. Describe proposed treatment(s):

_____

_____

_____

_____

ii. Will the proposed action use Integrated Pest Management Practices? ☐ Yes ☐ No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? ☐ Yes ☑ No

If Yes:

i. Describe any solid waste(s) to be generated during construction or operation of the facility:

- Construction: _____ tons per _____ (unit of time)
- Operation : _____ tons per _____ (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction: _____

  _____
- Operation: _____

  _____

iii. Proposed disposal methods/facilities for solid waste generated on-site:

- Construction: _____

  _____
- Operation: _____

  _____

s. Does the proposed action include construction or modification of a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

iii. Specify amount to be handled or generated _____ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☐ Yes ☐ No

If Yes: provide name and location of facility: _____

If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site.

☑ Urban ☐ Industrial ☐ Commercial ☐ Residential (suburban) ☐ Rural (non-farm)
☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other (specify): _____

ii. If mix of uses, generally describe:

b. Land uses and covertypes on the project site.

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	0.5	0.5	N/A
• Forested	0	0	N/A
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	0	0	N/A
• Agricultural (includes active orchards, field, greenhouse etc.)	0	0	N/A
• Surface water features (lakes, ponds, streams, rivers, etc.)	0	0	N/A
• Wetlands (freshwater or tidal)	0	0	N/A
• Non-vegetated (bare rock, earth or fill)	0	0	N/A
• Other Describe: _____	0	0	N/A

c. Is the project site presently used by members of the community for public recreation? ☐ Yes ☑ No

i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? ☐ Yes ☑ No

If Yes,

i. Identify Facilities:

_____

_____

e. Does the project site contain an existing dam? ☐ Yes ☑ No

If Yes:

i. Dimensions of the dam and impoundment:

- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____

iii. Provide date and summarize results of last inspection:

_____

_____

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Has the facility been formally closed? ☐ Yes ☐ No

- If yes, cite sources/documentation: _____

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

_____

_____

iii. Describe any development constraints due to the prior solid waste activities: _____

_____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

_____

_____

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? ☐ Yes ☑ No

If Yes:

i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: ☐ Yes ☐ No

☐ Yes – Spills Incidents database Provide DEC ID number(s): _____

☐ Yes – Environmental Site Remediation database Provide DEC ID number(s): _____

☐ Neither database

ii. If site has been subject of RCRA corrective activities, describe control measures: _____

_____

_____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? ☑ Yes ☐ No

If yes, provide DEC ID number(s): 915165, C915310, C915392

iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

915165- Vibratech Inc, was classified as a dump by the State Superfund Program and is still active. Off-site contamination is not a concern

C915310- Brownfield Cleanup Program, remediation at this site is complete and contamination is managed by Site Management Plan

C915392- Brownfield Cleanup Program, application was withdrawn and health assessment at the site is under review

v. Is the project site subject to an institutional control limiting property uses? ☐ Yes ☑ No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? ☐ Yes ☐ No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? >6.5 feet

b. Are there bedrock outcroppings on the project site? ☐ Yes ☑ No
If Yes, what proportion of the site is comprised of bedrock outcroppings? _____%

c. Predominant soil type(s) present on project site: UrA-Urand Land, Lima Complex _____%
_____ _____%
_____ _____%

d. What is the average depth to the water table on the project site? Average: 1.5 - 2 feet

e. Drainage status of project site soils:
☐ Well Drained: _____% of site
☑ Moderately Well Drained: 100 % of site
☐ Poorly Drained _____% of site

f. Approximate proportion of proposed action site with slopes:
☑ 0-10%: 100 % of site
☐ 10-15%: _____% of site
☐ 15% or greater: _____% of site

g. Are there any unique geologic features on the project site? ☐ Yes ☑ No
If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☐ Yes ☑ No

ii. Do any wetlands or other waterbodies adjoin the project site? ☑ Yes ☐ No

If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☑ Yes ☐ No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name 837-117 C Classification C
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name _____ Approximate Size _____
- Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☐ Yes ☑ No

If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? ☐ Yes ☑ No

j. Is the project site in the 100-year Floodplain? ☐ Yes ☑ No

k. Is the project site in the 500-year Floodplain? ☐ Yes ☑ No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☐ Yes ☑ No
If Yes:

i. Name of aquifer: _____

m. Identify the predominant wildlife species that occupy or use the project site: _____

_____ _____ _____

_____ _____ _____

n. Does the project site contain a designated significant natural community? ☐ Yes ☑ No

If Yes:

i. Describe the habitat/community (composition, function, and basis for designation): _____

_____

ii. Source(s) of description or evaluation: _____

iii. Extent of community/habitat:

- Currently: _____ acres
- Following completion of project as proposed: _____ acres
- Gain or loss (indicate + or -): _____ acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☐ Yes ☑ No

If Yes:

i. Species and listing (endangered or threatened): _____

_____

_____

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☐ Yes ☑ No

If Yes:

i. Species and listing: _____

_____

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☐ Yes ☑ No

If yes, give a brief description of how the proposed action may affect that use: _____

_____

E.3. Designated Public Resources On or Near Project Site

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☐ Yes ☑ No

If Yes, provide county plus district name/number: _____

b. Are agricultural lands consisting of highly productive soils present? ☐ Yes ☑ No

i. If Yes: acreage(s) on project site? _____

ii. Source(s) of soil rating(s): _____

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐ Yes ☑ No

If Yes:

i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature

ii. Provide brief description of landmark, including values behind designation and approximate size/extent: _____

_____

_____

d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? ☐ Yes ☑ No

If Yes:

i. CEA name: _____

ii. Basis for designation: _____

iii. Designating agency and date: _____

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? ☑ Yes ☐ No

If Yes:

i. Nature of historic/archaeological resource: ☐ Archaeological Site ☑ Historic Building or District

ii. Name: Hamlin Park Historic District, Faith Mission Baptist Church

iii. Brief description of attributes on which listing is based:

f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? ☐ Yes ☑ No

g. Have additional archaeological or historic site(s) or resources been identified on the project site? ☐ Yes ☑ No

If Yes:

i. Describe possible resource(s):

ii. Basis for identification:

h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? ☐ Yes ☑ No

If Yes:

i. Identify resource:

ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.):

iii. Distance between project and resource: _____ miles.

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? ☐ Yes ☑ No

If Yes:

i. Identify the name of the river and its designation:

ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? ☐ Yes ☑ No

F. Additional Information

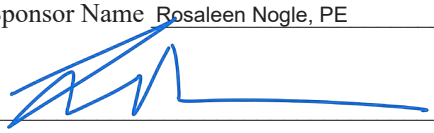
Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

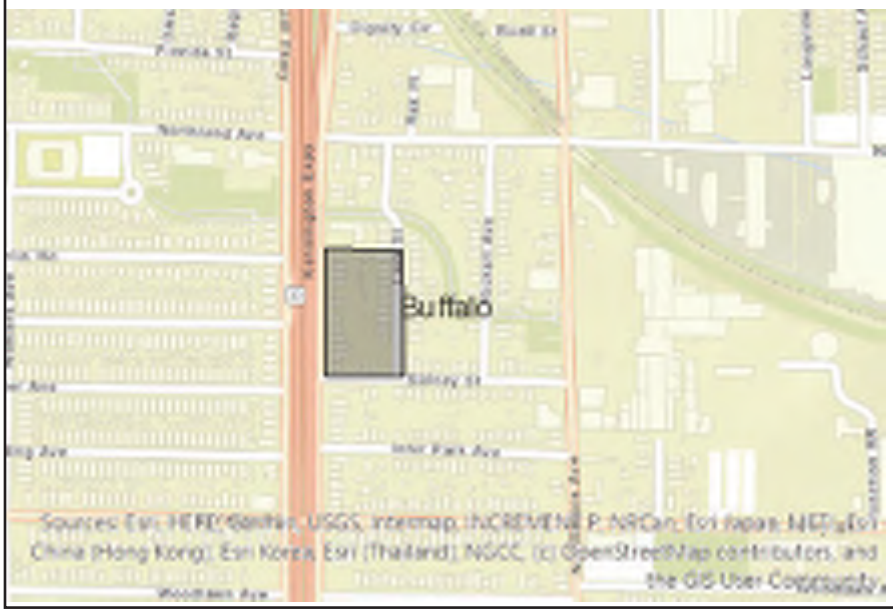
Applicant/Sponsor Name Rosaleen Nogle, PE Date 3/17/2025

Signature  Title Principal Sanitary Engineer

PRINT FORM

EAF Mapper Summary Report

Monday, May 20, 2024 1:58 PM



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.

B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Yes - Digital mapping data are not available for all Special Planning Districts. Refer to EAF Workbook.
C.2.b. [Special Planning District - Name]	NYS Heritage Areas:West Erie Canal Corridor
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	Yes
E.1.h.iii [Within 2,000' of DEC Remediation Site - DEC ID]	915165, C915310, C915392
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	No
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	No
E.2.k. [500 Year Floodplain]	No
E.2.l. [Aquifers]	No
E.2.n. [Natural Communities]	No

E.2.o. [Endangered or Threatened Species]	No
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Yes - Digital mapping data for archaeological site boundaries are not available. Refer to EAF Workbook.
E.3.e.ii [National or State Register of Historic Places or State Eligible Sites - Name]	Hamlin Park Historic District, Faith Mission Baptist Church
E.3.f. [Archeological Sites]	No
E.3.i. [Designated River Corridor]	No

Involved/Interested Agencies

City of Buffalo Common Council Masten District
Zeneta B. Everhart (via email)
zeverhart@buffalony.gov

City of Buffalo Department of Public Works, Parks & Streets – Parks
Andrew Rabb, Deputy Commissioner for Parks and Recreation (via email)
arabb@city-buffalo.com

City of Buffalo Department of Public Works, Parks & Streets
Nolan Skipper, City Engineer (via email)
nskipper@buffalony.gov

New York State Department of State
Coastal Management Program
99 Washington Avenue
Albany, NY 12231-0001

New York State Department of Transportation
Casey Gordon, Transportation Analyst
Planning and Program Management
dot.sm.r05.SEQR@dot.ny.gov

New York State Department of Transportation, Region 5New York State Department of Environmental Conservation
Michelle Woznick, Deputy Permit Administrator, Division of Environmental Permits
DEP.R9@dec.ny.gov

New York State Department of Environmental Conservation
City of Buffalo Office of Strategic Planning
Brendan R. Mehaffy, Executive Director (via email)
bmehaffy@buffalony.gov

City of Buffalo Water Authority
Fouad Arab
farab@buffalony.gov
281 Exchange St, Buffalo, NY 14204

Erie County Department of Health
Jack Tomani
John.tomani@erie.gov
95 Franklin Street
Buffalo, NY 14202

Buffalo Environmental Management Commission
Jason Paananen

jpaananen@buffalony.gov
920 City Hall
65 Niagara Square
Buffalo, NY 14202

New York State Historic Preservation Office (consultation completed online)
1 Delaware Avenue North, Cohoes, NY 12047

U.S. Fish and Wildlife Service (consultation completed online)
1849 C Street, NW
Washington, DC 20240

City of Buffalo Division of Real Estate
Howard Grynspan
HGrynspan@buffalony.gov

BUFFALO
SEWER AUTHORITY

ATTACHMENT B-2

Full Environmental Assessment Form
Part 2 - Identification of Potential Project Impacts

Part 2 is to be completed by the lead agency. Part 2 is designed to help the lead agency inventory all potential resources that could be affected by a proposed project or action. We recognize that the lead agency's reviewer(s) will not necessarily be environmental professionals. So, the questions are designed to walk a reviewer through the assessment process by providing a series of questions that can be answered using the information found in Part 1. To further assist the lead agency in completing Part 2, the form identifies the most relevant questions in Part 1 that will provide the information needed to answer the Part 2 question. When Part 2 is completed, the lead agency will have identified the relevant environmental areas that may be impacted by the proposed activity.

If the lead agency is a state agency **and** the action is in any Coastal Area, complete the Coastal Assessment Form before proceeding with this assessment.

Tips for completing Part 2:

- Review all of the information provided in Part 1.
- Review any application, maps, supporting materials and the Full EAF Workbook.
- Answer each of the 18 questions in Part 2.
- If you answer "**Yes"** to a numbered question, please complete all the questions that follow in that section.
- If you answer "**No"** to a numbered question, move on to the next numbered question.
- Check appropriate column to indicate the anticipated size of the impact.
- Proposed projects that would exceed a numeric threshold contained in a question should result in the reviewing agency checking the box "Moderate to large impact may occur."
- The reviewer is not expected to be an expert in environmental analysis.
- If you are not sure or undecided about the size of an impact, it may help to review the sub-questions for the general question and consult the workbook.
- When answering a question consider all components of the proposed activity, that is, the "whole action".
- Consider the possibility for long-term and cumulative impacts as well as direct impacts.
- Answer the question in a reasonable manner considering the scale and context of the project.

1. Impact on Land
Proposed action may involve construction on, or physical alteration of, the land surface of the proposed site. (See Part 1. D.1)
If "Yes", answer questions a - j. If "No", move on to Section 2.

☐ NO ☑ YES

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may involve construction on land where depth to water table is less than 3 feet.	E2d	☑	☐
b. The proposed action may involve construction on slopes of 15% or greater.	E2f	☑	☐
c. The proposed action may involve construction on land where bedrock is exposed, or generally within 5 feet of existing ground surface.	E2a	☑	☐
d. The proposed action may involve the excavation and removal of more than 1,000 tons of natural material.	D2a	☐	☑
e. The proposed action may involve construction that continues for more than one year or in multiple phases.	D1e	☐	☑
f. The proposed action may result in increased erosion, whether from physical disturbance or vegetation removal (including from treatment by herbicides).	D2e, D2q	☑	☐
g. The proposed action is, or may be, located within a Coastal Erosion hazard area.	B1i	☑	☐
h. Other impacts: Open cut trenching, excavation		☐	☑

2. Impact on Geological Features

The proposed action may result in the modification or destruction of, or inhibit access to, any unique or unusual land forms on the site (e.g., cliffs, dunes, minerals, fossils, caves). (See Part 1. E.2.g)

☑ NO ☐ YES

If "Yes", answer questions a - c. If "No", move on to Section 3.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Identify the specific land form(s) attached: _____ _____	E2g	□	□
b. The proposed action may affect or is adjacent to a geological feature listed as a registered National Natural Landmark. Specific feature: _____	E3c	□	□
c. Other impacts: _____ _____		□	□

3. Impacts on Surface Water

The proposed action may affect one or more wetlands or other surface water bodies (e.g., streams, rivers, ponds or lakes). (See Part 1. D.2, E.2.h)

☑ NO ☐ YES

If "Yes", answer questions a - l. If "No", move on to Section 4.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may create a new water body.	D2b, D1h	□	□
b. The proposed action may result in an increase or decrease of over 10% or more than a 10 acre increase or decrease in the surface area of any body of water.	D2b	□	□
c. The proposed action may involve dredging more than 100 cubic yards of material from a wetland or water body.	D2a	□	□
d. The proposed action may involve construction within or adjoining a freshwater or tidal wetland, or in the bed or banks of any other water body.	E2h	□	□
e. The proposed action may create turbidity in a waterbody, either from upland erosion, runoff or by disturbing bottom sediments.	D2a, D2h	□	□
f. The proposed action may include construction of one or more intake(s) for withdrawal of water from surface water.	D2c	□	□
g. The proposed action may include construction of one or more outfall(s) for discharge of wastewater to surface water(s).	D2d	□	□
h. The proposed action may cause soil erosion, or otherwise create a source of stormwater discharge that may lead to siltation or other degradation of receiving water bodies.	D2e	□	□
i. The proposed action may affect the water quality of any water bodies within or downstream of the site of the proposed action.	E2h	□	□
j. The proposed action may involve the application of pesticides or herbicides in or around any water body.	D2q, E2h	□	□
k. The proposed action may require the construction of new, or expansion of existing, wastewater treatment facilities.	D1a, D2d	□	□

l. Other impacts: _____ _____		□	□

4. Impact on groundwater

The proposed action may result in new or additional use of ground water, or may have the potential to introduce contaminants to ground water or an aquifer. (See Part 1. D.2.a, D.2.c, D.2.d, D.2.p, D.2.q, D.2.t) ☐ NO ☑ YES

If "Yes", answer questions a - h. If "No", move on to Section 5.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may require new water supply wells, or create additional demand on supplies from existing water supply wells.	D2c	☑	☐
b. Water supply demand from the proposed action may exceed safe and sustainable withdrawal capacity rate of the local supply or aquifer. Cite Source: _____	D2c	☑	☐
c. The proposed action may allow or result in residential uses in areas without water and sewer services.	D1a, D2c	☑	☐
d. The proposed action may include or require wastewater discharged to groundwater.	D2d, E2l	☑	☐
e. The proposed action may result in the construction of water supply wells in locations where groundwater is, or is suspected to be, contaminated.	D2c, E1f, E1g, E1h	☑	☐
f. The proposed action may require the bulk storage of petroleum or chemical products over ground water or an aquifer.	D2p, E2l	☑	☐
g. The proposed action may involve the commercial application of pesticides within 100 feet of potable drinking water or irrigation sources.	E2h, D2q, E2l, D2c	☑	☐
h. Other impacts: Excavation near water table and connection to existing sewer system; however, no new wells or direct groundwater discharge proposed.		☑	☐

5. Impact on Flooding

The proposed action may result in development on lands subject to flooding. (See Part 1. E.2) ☑ NO ☐ YES

If "Yes", answer questions a - g. If "No", move on to Section 6.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in development in a designated floodway.	E2i	□	□
b. The proposed action may result in development within a 100 year floodplain.	E2j	□	□
c. The proposed action may result in development within a 500 year floodplain.	E2k	□	□
d. The proposed action may result in, or require, modification of existing drainage patterns.	D2b, D2e	□	□
e. The proposed action may change flood water flows that contribute to flooding.	D2b, E2i, E2j, E2k	□	□
f. If there is a dam located on the site of the proposed action, is the dam in need of repair, or upgrade?	E1e	□	□

g. Other impacts: _____ _____		☐	☐

6. Impacts on Air

The proposed action may include a state regulated air emission source. ☐ NO ☑ YES
(See Part 1. D.2.f., D.2.h, D.2.g)
If "Yes", answer questions a - f. If "No", move on to Section 7.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. If the proposed action requires federal or state air emission permits, the action may also emit one or more greenhouse gases at or above the following levels:			
i. More than 1000 tons/year of carbon dioxide (CO_2)	D2g	☑	☐
ii. More than 3.5 tons/year of nitrous oxide (N_2O)	D2g	☑	☐
iii. More than 1000 tons/year of carbon equivalent of perfluorocarbons (PFCs)	D2g	☑	☐
iv. More than .045 tons/year of sulfur hexafluoride (SF_6)	D2g	☑	☐
v. More than 1000 tons/year of carbon dioxide equivalent of hydrochloroflourocarbons (HFCs) emissions	D2g	☑	☐
vi. 43 tons/year or more of methane	D2h	☑	☐
b. The proposed action may generate 10 tons/year or more of any one designated hazardous air pollutant, or 25 tons/year or more of any combination of such hazardous air pollutants.	D2g	☑	☐
c. The proposed action may require a state air registration, or may produce an emissions rate of total contaminants that may exceed 5 lbs. per hour, or may include a heat source capable of producing more than 10 million BTU's per hour.	D2f, D2g	☑	☐
d. The proposed action may reach 50% of any of the thresholds in "a" through "c", above.	D2g	☑	☐
e. The proposed action may result in the combustion or thermal treatment of more than 1 ton of refuse per hour.	D2s	☑	☐
f. Other impacts: Temporary construction emissions (dust, diesel), but no long-term emission sources		☑	☐

7. Impact on Plants and Animals

The proposed action may result in a loss of flora or fauna. (See Part 1. E.2. m.-q.) ☑ NO ☐ YES
If "Yes", answer questions a - j. If "No", move on to Section 8.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may cause reduction in population or loss of individuals of any threatened or endangered species, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2o	☐	☐
b. The proposed action may result in a reduction or degradation of any habitat used by any rare, threatened or endangered species, as listed by New York State or the federal government.	E2o	☐	☐
c. The proposed action may cause reduction in population, or loss of individuals, of any species of special concern or conservation need, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2p	☐	☐
d. The proposed action may result in a reduction or degradation of any habitat used by any species of special concern and conservation need, as listed by New York State or the Federal government.	E2p	☐	☐

e. The proposed action may diminish the capacity of a registered National Natural Landmark to support the biological community it was established to protect.	E3c	□	□
f. The proposed action may result in the removal of, or ground disturbance in, any portion of a designated significant natural community. Source: _____	E2n	□	□
g. The proposed action may substantially interfere with nesting/breeding, foraging, or over-wintering habitat for the predominant species that occupy or use the project site.	E2m	□	□
h. The proposed action requires the conversion of more than 10 acres of forest, grassland or any other regionally or locally important habitat. Habitat type & information source: _____ _____	E1b	□	□
i. Proposed action (commercial, industrial or recreational projects, only) involves use of herbicides or pesticides.	D2q	□	□
j. Other impacts: _____ _____		□	□

8. Impact on Agricultural Resources

The proposed action may impact agricultural resources. (See Part 1. E.3.a. and b.) ☑ NO ☐ YES

If "Yes", answer questions a - h. If "No", move on to Section 9.

	Relevant Part I Question(s)	**No, or small impact may occur**	**Moderate to large impact may occur**
a. The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System.	E2c, E3b	□	□
b. The proposed action may sever, cross or otherwise limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc).	E1a, Elb	□	□
c. The proposed action may result in the excavation or compaction of the soil profile of active agricultural land.	E3b	□	□
d. The proposed action may irreversibly convert agricultural land to non-agricultural uses, either more than 2.5 acres if located in an Agricultural District, or more than 10 acres if not within an Agricultural District.	E1b, E3a	□	□
e. The proposed action may disrupt or prevent installation of an agricultural land management system.	El a, E1b	□	□
f. The proposed action may result, directly or indirectly, in increased development potential or pressure on farmland.	C2c, C3, D2c, D2d	□	□
g. The proposed project is not consistent with the adopted municipal Farmland Protection Plan.	C2c	□	□
h. Other impacts: _____		□	□

9. Impact on Aesthetic Resources

The land use of the proposed action are obviously different from, or are in sharp contrast to, current land use patterns between the proposed project and a scenic or aesthetic resource. (Part 1. E.1.a, E.1.b, E.3.h.)

☑ NO ☐ YES

If "Yes", answer questions a - g. If "No", go to Section 10.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Proposed action may be visible from any officially designated federal, state, or local scenic or aesthetic resource.	E3h	☐	☐
b. The proposed action may result in the obstruction, elimination or significant screening of one or more officially designated scenic views.	E3h, C2b	☐	☐
c. The proposed action may be visible from publicly accessible vantage points: i. Seasonally (e.g., screened by summer foliage, but visible during other seasons) ii. Year round	E3h	 ☐ ☐	 ☐ ☐
d. The situation or activity in which viewers are engaged while viewing the proposed action is: i. Routine travel by residents, including travel to and from work ii. Recreational or tourism based activities	E3h E2q, E1c	 ☐ ☐	 ☐ ☐
e. The proposed action may cause a diminishment of the public enjoyment and appreciation of the designated aesthetic resource.	E3h	☐	☐
f. There are similar projects visible within the following distance of the proposed project: 0-1/2 mile ½ -3 mile 3-5 mile 5+ mile	D1a, E1a, D1f, D1g	☐	☐
g. Other impacts: _____ _____		☐	☐

10. Impact on Historic and Archeological Resources

The proposed action may occur in or adjacent to a historic or archaeological resource. (Part 1. E.3.e, f. and g.)

☑ NO ☐ YES

If "Yes", answer questions a - e. If "No", go to Section 11.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may occur wholly or partially within, or substantially contiguous to, any buildings, archaeological site or district which is listed on the National or State Register of Historical Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places.	E3e	☐	☐
b. The proposed action may occur wholly or partially within, or substantially contiguous to, an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory.	E3f	☐	☐
c. The proposed action may occur wholly or partially within, or substantially contiguous to, an archaeological site not included on the NY SHPO inventory. Source: _____	E3g	☐	☐

d. Other impacts: _____ _____		□	□
e. If any of the above (a-d) are answered "Moderate to large impact may occur", continue with the following questions to help support conclusions in Part 3:			
i. The proposed action may result in the destruction or alteration of all or part of the site or property.	E3e, E3g, E3f	□	□
ii. The proposed action may result in the alteration of the property's setting or integrity.	E3e, E3f, E3g, E1a, E1b	□	□
iii. The proposed action may result in the introduction of visual elements which are out of character with the site or property, or may alter its setting.	E3e, E3f, E3g, E3h, C2, C3	□	□

11. Impact on Open Space and Recreation

The proposed action may result in a loss of recreational opportunities or a reduction of an open space resource as designated in any adopted municipal open space plan.
(See Part 1. C.2.c, E.1.c., E.2.q.)
If "Yes", answer questions a - e. If "No", go to Section 12.

☑ NO ☐ YES

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in an impairment of natural functions, or "ecosystem services", provided by an undeveloped area, including but not limited to stormwater storage, nutrient cycling, wildlife habitat.	D2e, E1b E2h, E2m, E2o, E2n, E2p	□	□
b. The proposed action may result in the loss of a current or future recreational resource.	C2a, E1c, C2c, E2q	□	□
c. The proposed action may eliminate open space or recreational resource in an area with few such resources.	C2a, C2c E1c, E2q	□	□
d. The proposed action may result in loss of an area now used informally by the community as an open space resource.	C2c, E1c	□	□
e. Other impacts: _____ _____		□	□

12. Impact on Critical Environmental Areas

The proposed action may be located within or adjacent to a critical environmental area (CEA). (See Part 1. E.3.d)
If "Yes", answer questions a - c. If "No", go to Section 13.

☑ NO ☐ YES

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in a reduction in the quantity of the resource or characteristic which was the basis for designation of the CEA.	E3d	□	□
b. The proposed action may result in a reduction in the quality of the resource or characteristic which was the basis for designation of the CEA.	E3d	□	□
c. Other impacts: _____ _____		□	□

13. Impact on Transportation

The proposed action may result in a change to existing transportation systems. ☐ NO ☑ YES
(See Part 1. D.2.j)
If "Yes", answer questions a - f. If "No", go to Section 14.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Projected traffic increase may exceed capacity of existing road network.	D2j	☑	☐
b. The proposed action may result in the construction of paved parking area for 500 or more vehicles.	D2j	☑	☐
c. The proposed action will degrade existing transit access.	D2j	☑	☐
d. The proposed action will degrade existing pedestrian or bicycle accommodations.	D2j	☑	☐
e. The proposed action may alter the present pattern of movement of people or goods.	D2j	☐	☑
f. Other impacts: Temporary disruptions during construction (equipment, detours). Not significant due to low-volume local road		☑	☐

14. Impact on Energy

The proposed action may cause an increase in the use of any form of energy. ☐ NO ☑ YES
(See Part 1. D.2.k)
If "Yes", answer questions a - e. If "No", go to Section 15.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action will require a new, or an upgrade to an existing, substation.	D2k	☑	☐
b. The proposed action will require the creation or extension of an energy transmission or supply system to serve more than 50 single or two-family residences or to serve a commercial or industrial use.	D1f, D1q, D2k	☑	☐
c. The proposed action may utilize more than 2,500 MWhrs per year of electricity.	D2k	☑	☐
d. The proposed action may involve heating and/or cooling of more than 100,000 square feet of building area when completed.	D1g	☑	☐
e. Other Impacts: Will require electrical power for SCADA/modulating gate but not a major consumer.		☑	☐

15. Impact on Noise, Odor, and Light

The proposed action may result in an increase in noise, odors, or outdoor lighting. ☐ NO ☑ YES
(See Part 1. D.2.m., n., and o.)
If "Yes", answer questions a - f. If "No", go to Section 16.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may produce sound above noise levels established by local regulation.	D2m	☑	☐
b. The proposed action may result in blasting within 1,500 feet of any residence, hospital, school, licensed day care center, or nursing home.	D2m, E1d	☑	☐
c. The proposed action may result in routine odors for more than one hour per day.	D2o	☑	☐

d. The proposed action may result in light shining onto adjoining properties.	D2n	☑	☐
e. The proposed action may result in lighting creating sky-glow brighter than existing area conditions.	D2n, E1a	☑	☐
f. Other impacts: Construction noise and lighting expected.		☑	☐

16. Impact on Human Health

The proposed action may have an impact on human health from exposure to new or existing sources of contaminants. (See Part 1.D.2.q., E.1. d. f. g. and h.) ☐ NO ☑ YES

If "Yes", answer questions a - m. If "No", go to Section 17.

	Relevant Part I Question(s)	No,or small impact may cccur	Moderate to large impact may occur
a. The proposed action is located within 1500 feet of a school, hospital, licensed day care center, group home, nursing home or retirement community.	E1d	☑	☐
b. The site of the proposed action is currently undergoing remediation.	E1g, E1h	☑	☐
c. There is a completed emergency spill remediation, or a completed environmental site remediation on, or adjacent to, the site of the proposed action.	E1g, E1h	☑	☐
d. The site of the action is subject to an institutional control limiting the use of the property (e.g., easement or deed restriction).	E1g, E1h	☑	☐
e. The proposed action may affect institutional control measures that were put in place to ensure that the site remains protective of the environment and human health.	E1g, E1h	☑	☐
f. The proposed action has adequate control measures in place to ensure that future generation, treatment and/or disposal of hazardous wastes will be protective of the environment and human health.	D2t	☑	☐
g. The proposed action involves construction or modification of a solid waste management facility.	D2q, E1f	☑	☐
h. The proposed action may result in the unearthing of solid or hazardous waste.	D2q, E1f	☑	☐
i. The proposed action may result in an increase in the rate of disposal, or processing, of solid waste.	D2r, D2s	☑	☐
j. The proposed action may result in excavation or other disturbance within 2000 feet of a site used for the disposal of solid or hazardous waste.	E1f, E1g E1h	☑	☐
k. The proposed action may result in the migration of explosive gases from a landfill site to adjacent off site structures.	E1f, E1g	☑	☐
l. The proposed action may result in the release of contaminated leachate from the project site.	D2s, E1f, D2r	☑	☐
m. Other impacts: Temporary construction-related air and safety risks. Long-term positive impact by reducing CSOs.		☑	☐

17. Consistency with Community Plans

The proposed action is not consistent with adopted land use plans. ☐ NO ☑ YES

(See Part 1. C.1, C.2. and C.3.)

If "Yes", answer questions a - h. If "No", go to Section 18.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action's land use components may be different from, or in sharp contrast to, current surrounding land use pattern(s).	C2, C3, D1a E1a, E1b	☐	☐
b. The proposed action will cause the permanent population of the city, town or village in which the project is located to grow by more than 5%.	C2	☐	☐
c. The proposed action is inconsistent with local land use plans or zoning regulations.	C2, C2, C3	☐	☐
d. The proposed action is inconsistent with any County plans, or other regional land use plans.	C2, C2	☐	☐
e. The proposed action may cause a change in the density of development that is not supported by existing infrastructure or is distant from existing infrastructure.	C3, D1c, D1d, D1f, D1d, Elb	☐	☐
f. The proposed action is located in an area characterized by low density development that will require new or expanded public infrastructure.	C4, D2c, D2d D2j	☐	☐
g. The proposed action may induce secondary development impacts (e.g., residential or commercial development not included in the proposed action)	C2a	☐	☐
h. Other: _____ _____		☐	☐

18. Consistency with Community Character

The proposed project is inconsistent with the existing community character. ☑ NO ☐ YES

(See Part 1. C.2, C.3, D.2, E.3)

If "Yes", answer questions a - g. If "No", proceed to Part 3.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may replace or eliminate existing facilities, structures, or areas of historic importance to the community.	E3e, E3f, E3g	□	□
b. The proposed action may create a demand for additional community services (e.g. schools, police and fire)	C4	□	□
c. The proposed action may displace affordable or low-income housing in an area where there is a shortage of such housing.	C2, C3, D1f D1g, E1a	□	□
d. The proposed action may interfere with the use or enjoyment of officially recognized or designated public resources.	C2, E3	□	□
e. The proposed action is inconsistent with the predominant architectural scale and character.	C2, C3	□	□
f. Proposed action is inconsistent with the character of the existing natural landscape.	C2, C3 E1a, E1b E2g, E2h	□	□
g. Other impacts: _____ _____		□	□

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ATTACHMENT B-3

Agency Use Only [IfApplicable]

Project : Sidney and Lark RTC

Date : 04/14/2025

Full Environmental Assessment Form
Part 3 - Evaluation of the Magnitude and Importance of Project Impacts
and
Determination of Significance

Part 3 provides the reasons in support of the determination of significance. The lead agency must complete Part 3 for every question in Part 2 where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse environmental impact.

Based on the analysis in Part 3, the lead agency must decide whether to require an environmental impact statement to further assess the proposed action or whether available information is sufficient for the lead agency to conclude that the proposed action will not have a significant adverse environmental impact. By completing the certification on the next page, the lead agency can complete its determination of significance.

Reasons Supporting This Determination:

To complete this section:

- Identify the impact based on the Part 2 responses and describe its magnitude. Magnitude considers factors such as severity, size or extent of an impact.
- Assess the importance of the impact. Importance relates to the geographic scope, duration, probability of the impact occurring, number of people affected by the impact and any additional environmental consequences if the impact were to occur.
- The assessment should take into consideration any design element or project changes.
- Repeat this process for each Part 2 question where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse environmental impact.
- Provide the reason(s) why the impact may, or will not, result in a significant adverse environmental impact
- For Conditional Negative Declarations identify the specific condition(s) imposed that will modify the proposed action so that no significant adverse environmental impacts will result.
- Attach additional sheets, as needed.

Please see attached significance statement

Determination of Significance - Type 1 and Unlisted Actions

SEQR Status: ☑ Type 1 ☐ Unlisted

Identify portions of EAF completed for this Project: ☑ Part 1 ☑ Part 2 ☑ Part 3

Upon review of the information recorded on this EAF, as noted, plus this additional support information

and considering both the magnitude and importance of each identified potential impact, it is the conclusion of the Buffalo Sewer Authority as lead agency that:

☑ A. This project will result in no significant adverse impacts on the environment, and, therefore, an environmental impact statement need not be prepared. Accordingly, this negative declaration is issued.

☐ B. Although this project could have a significant adverse impact on the environment, that impact will be avoided or substantially mitigated because of the following conditions which will be required by the lead agency:

There will, therefore, be no significant adverse impacts from the project as conditioned, and, therefore, this conditioned negative declaration is issued. A conditioned negative declaration may be used only for UNLISTED actions (see 6 NYCRR 617.7(d)).

☐ C. This Project may result in one or more significant adverse impacts on the environment, and an environmental impact statement must be prepared to further assess the impact(s) and possible mitigation and to explore alternatives to avoid or reduce those impacts. Accordingly, this positive declaration is issued.

Name of Action: CSO053_1.4 Sidney-Lark Real Time Control (RTC)

Name of Lead Agency: Buffalo Sewer Authority

Name of Responsible Officer in Lead Agency: Rosaleen B. Nogle, PE, BCEE, PMP

Title of Responsible Officer: Principal Sanitary Engineer

Signature of Responsible Officer in Lead Agency: Date:

Signature of Preparer (if different from Responsible Officer) Date:

For Further Information:

Contact Person: Elizabeth Tramposch, PE - CORE Environmental Consultants, Inc.

Address: 2312 Wehrle Drive, Williamsville, NY 14221

Telephone Number: 716-204-8054

E-mail: emt@coreenv.com

For Type 1 Actions and Conditioned Negative Declarations, a copy of this Notice is sent to:

Chief Executive Officer of the political subdivision in which the action will be principally located (e.g., Town / City / Village of)
Other involved agencies (if any)
Applicant (if any)
Environmental Notice Bulletin: http://www.dec.ny.gov/enb/enb.html

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Full Environmental Assessment Form

Part 3 – Evaluation of the Magnitude and Importance of Project Impacts and Determination of Significance

Buffalo Sewer Authority – CSO053_1.4 Sidney and Lark RTC

Impacts

The following impacts were identified on the FEAF Part 2.

1. Impact on Land

Analysis

The Sidney-Lark RTC project will involve the open cut excavation of a new 48-inch gravity sewer line and a drop shaft approximately 35 to 40 feet below grade. The work will occur within City-owned parcels and within the right-of-way along Sidney and Lark Streets. Construction activities will result in significant soil disturbance and the movement of excavated material. These activities may also temporarily alter drainage patterns and increase the potential for erosion or soil compaction in disturbed areas.

Mitigation Measures

To mitigate potential impacts on land, standard erosion and sediment control measures will be implemented during construction, including silt fencing, stabilized construction entrances, and temporary vegetative cover or gravel surfacing for disturbed areas. Disturbed surfaces will be regraded and restored upon completion. Stormwater best management practices will be incorporated into the site design to manage post-construction runoff.

Impact

The impact on land is expected to be moderate and short term during the construction period. These impacts are not permanent and will be mitigated through restoration and erosion control practices.

14. Impact on Transportation

Analysis

The Sidney-Lark RTC project will temporarily disrupt transportation patterns in the vicinity of Sidney Street, Lark Street, and Humboldt Parkway during construction. Construction activities, including excavation and pipe installation, will require partial lane closures and detours. Local traffic circulation, including access to adjacent residences and businesses, may be temporarily affected. Pedestrian access along sidewalks may

be restricted or rerouted during certain phases of construction. However, the affected area is primarily residential with low to moderate traffic volumes, and no long-term operational impacts on transportation are expected after construction is complete.

Mitigation:

A Maintenance and Protection of Traffic (MPT) plan will be developed and coordinated with the City of Buffalo and local emergency services. The MPT plan will include temporary signage, barriers, pedestrian rerouting, and traffic control measures such as flaggers or temporary signals as needed. The construction schedule will be coordinated to minimize disruption during peak traffic hours. Access for emergency vehicles and local deliveries will be maintained.

Impact:

The impact on transportation will be moderate and short term, limited to the construction phase. Post-construction, traffic and pedestrian conditions will return to normal, with no permanent transportation infrastructure changes resulting from the project.

15. Impact on Noise, Odor, and Light

Analysis

Construction activities will result in elevated noise levels from heavy machinery, generators, and vehicle traffic, particularly along Sidney and Lark Streets. Temporary lighting may be required for early morning or evening work.

Mitigation

Construction activities will comply with local noise ordinances and be limited to standard daytime hours. Light fixtures will be directed downward and shielded to minimize glare.

Impacts

The impact on noise will be moderate to significant and temporary during construction. Light impacts will be moderate and temporary.

16. Impact on Human Health

Analysis

Construction activities present short-term risks to human health through airborne dust, diesel emissions, and potential disturbance of urban soils that may contain residual contaminants. In the long term, the project will benefit public health by reducing combined sewer overflows to the Scajaquada Tunnel and improving water quality.

Mitigation

Dust control measures, such as water spraying, covering of stockpiles, and restricting vehicle idling, will be used. If contaminated soils are encountered, they will be managed and disposed of in accordance with applicable regulations. Construction safety standards will be enforced in accordance with OSHA guidelines.

Impact

The impact on human health during construction will be minor and short term, with mitigation in place. The long-term impact is significantly beneficial due to improved sewer performance and reduced CSO discharge.

Determination of Significance

The Sidney-Lark RTC project involves the construction of a diversion chamber, drop shaft, interconnecting sewer, and above-grade electrical infrastructure to improve wet weather flow management as part of the Buffalo Sewer Authority's Long Term Control Plan. The project is located in a mixed-use urban environment and will involve deep excavation and long-duration construction activities within the public right-of-way and City-owned parcels.

Temporary impacts include soil disturbance, noise, potential dust emissions, and minor traffic disruptions. There is the potential for odor emissions during system operation. All identified impacts will be addressed through best management practices, construction controls, regulatory compliance, and design mitigation strategies. No permanent adverse environmental effects are anticipated.

Long-term benefits include significant improvements in combined sewer overflow control, public health, and water quality in the Buffalo sewer system.

Negative Declaration

Based on the environmental assessment, the proposed action will not result in any significant adverse environmental impacts that cannot be mitigated. The impacts that will occur during construction—including on land, air, community character, and transportation—will be temporary and managed using best practices. The project is consistent with environmental, infrastructure, and public health goals of the community and regulatory agencies.

Given that the project will ultimately result in long-term environmental and public health benefits by reducing CSO discharges, improving water quality, and supporting regional stormwater management goals, and because all adverse effects will ultimately be temporary and mitigated appropriately, the Buffalo Sewer Authority is issuing a **Negative Declaration** pursuant to the State Environmental Quality Review Act (SEQR).

No significant adverse environmental impacts are anticipated that would warrant the preparation of an Environmental Impact Statement (EIS).

BUFFALO
SEWER AUTHORITY

ATTACHMENT C-1

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: CSO053_5.2 Edison Martha OLS		
Project Location (describe, and attach a general location map): West of the Charter School of Inquiry at 404 Edison Ave, Buffalo, NY 14215		
Brief Description of Proposed Action (include purpose or need): This project consists of constructing a 2.61 million gallon (MG) buried concrete tank, associated diversion structure, and tank inlet and outlet sewers near the northwest corner of Edison Avenue and Kensington Expressway for the purpose of relieving the Edison Avenue Storm Relief Sewer, the downstream Kensington Expressway Sewer at Edison Avenue and the Scajaquada Tunnel Interceptor during wet weather events to reduce CSO discharges to the Scajaquada Tunnel from SPP340. The tank will be a nominal 130 feet wide by 336 feet long and be constructed on land in what is the Roosevelt Playground. Flows in excess of the reported 0.4 million gallon per day (mgd) dry weather flow in the Edison Avenue Storm Relief Sewer will flow over a 20-foot-long weir at the proposed Diversion Structure to be constructed around the existing sewer in the Edison Avenue Right of way, and be conveyed via a 48-inch diameter Reinforced Concrete Pipe (RCP) to the tank. The storage tank will dewater via gravity through a 24-inch RCP pipe to the manhole where the Edison Avenue Storm Relief Sewer joins the Kensington Expressway Sewer at Edison Avenue, when there is available capacity in the downstream sewer. The outlet gate will be controlled by the level in the Hazelwood in-line-storage (ILS) facility downstream, whereas the inlet gate will be controlled by the tank level in the Edison Martha tank itself.		
Name of Applicant/Sponsor: Buffalo Sewer Authority	Telephone: 716-851-5664 Ext. 4203 E-Mail: rnogle@buffalosewer.org	
Address: 5 Niagara Square # 1038		
City/PO: Buffalo	State: NY	Zip Code: 14202
Project Contact (if not same as sponsor; give name and title/role): Rosaleen B. Nogle, PE, BCEE, PMP	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor):	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Counsel, Town Board, or Village Board of Trustees ☑Yes ☐No	City of Buffalo Common Council University District	
b. City, Town or Village Planning Board or Commission ☑Yes ☐No	City of Buffalo Office of Strategic Planning	
c. City, Town or Village Zoning Board of Appeals ☐Yes ☑No		
d. Other local agencies ☑Yes ☐No	City of Buffalo Department of Public Works, Parks & Streets	
e. County agencies ☑Yes ☐No	Erie County Department of Health	
f. Regional agencies ☐Yes ☑No		
g. State agencies ☑Yes ☐No	State Historic Preservation Office/Cultural Resources Determination	
h. Federal agencies ☑Yes ☐No	US Fish and Wildlife Service, Section 7	

i. Coastal Resources.

i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? ☐Yes ☑No

ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? ☐Yes ☑No

iii. Is the project site within a Coastal Erosion Hazard Area? ☐Yes ☑No

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? ☐Yes ☑No

- **If Yes,** complete sections C, F and G.
- **If No,** proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? ☐Yes ☑No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? ☐Yes ☑No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) ☑Yes ☐No

If Yes, identify the plan(s):

NYS Heritage Areas:West Erie Canal Corridor

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? ☐Yes ☑No

If Yes, identify the plan(s):

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☑ Yes ☐ No
If Yes, what is the zoning classification(s) including any applicable overlay district?
D-E (Educational Campus)

b. Is the use permitted or allowed by a special or conditional use permit? ☐ Yes ☑ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☑ No
If Yes,
i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? Buffalo City School District

b. What police or other public protection forces serve the project site?
Buffalo Police

c. Which fire protection and emergency medical services serve the project site?
Buffalo Fire Department

d. What parks serve the project site?
Roosevelt Park

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Municipal - sewer work

b. a. Total acreage of the site of the proposed action? 2 acres
b. Total acreage to be physically disturbed? 1.5 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 0 acres

c. Is the proposed action an expansion of an existing project or use? ☐ Yes ☑ No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☑ No
If Yes,
i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)
ii. Is a cluster/conservation layout proposed? ☐ Yes ☑ No
iii. Number of lots proposed? _____
iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will the proposed action be constructed in multiple phases? ☐ Yes ☑ No
i. If No, anticipated period of construction: 72 months
ii. If Yes:
- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____year
- Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

f. Does the project include new residential uses? ☐ Yes ☑ No

If Yes, show numbers of units proposed.

	One Family	Two Family	Three Family	Multiple Family (four or more)
Initial Phase				
At completion of all phases				

g. Does the proposed action include new non-residential construction (including expansions)? ☐ Yes ☑ No

If Yes,

i. Total number of structures _____

ii. Dimensions (in feet) of largest proposed structure: _____height; _____width; and _____ length

iii. Approximate extent of building space to be heated or cooled: _____ square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☑ Yes ☐ No

If Yes,

i. Purpose of the impoundment: Combined sewage overflow in the case of wet weather events

ii. If a water impoundment, the principal source of the water: ☐ Ground water ☐ Surface water streams ☑ Other specify: Combined sewage

iii. If other than water, identify the type of impounded/contained liquids and their source.

iv. Approximate size of the proposed impoundment. Volume: 2.61 (MG) million gallons; surface area: N/A acres

v. Dimensions of the proposed dam or impounding structure: _____ height; 130x336' length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete):

Concrete storage basin

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite) ☑ Yes ☐ No

If Yes:

i .What is the purpose of the excavation or dredging? Municipal Sewer Work - See Project Scope

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): 46,000 cubic yards
- Over what duration of time? 1-2 years

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.

Any excavated material not used as backfill for this site will be properly characterized and disposed of

iv. Will there be onsite dewatering or processing of excavated materials? ☐ Yes ☑ No

If yes, describe. _____

v. What is the total area to be dredged or excavated? 1.25 acres

vi. What is the maximum area to be worked at any one time? 1.25 acres

vii. What would be the maximum depth of excavation or dredging? 27 feet

viii. Will the excavation require blasting? ☑ Yes ☐ No

ix. Summarize site reclamation goals and plan:

The primary goal of site reclamation is to restore the surface area above the buried tank and surrounding infrastructure to its pre-construction condition, with improvements made as needed for site stabilization, landscaping, and drainage.

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? ☐ Yes ☑ No

If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

_____

_____

_____

_____

iii. Will the proposed action cause or result in disturbance to bottom sediments? ☐ Yes ☑ No

If Yes, describe: _____

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? ☐ Yes ☑ No

If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion: _____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____

_____

- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

_____

c. Will the proposed action use, or create a new demand for water? ☑ Yes ☐ No

If Yes:

i. Total anticipated water usage/demand per day: 4600 gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☑ Yes ☐ No

If Yes:

- Name of district or service area: _____
- Does the existing public water supply have capacity to serve the proposal? ☐ Yes ☐ No
- Is the project site in the existing district? ☐ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☐ No
- Do existing lines serve the project site? ☐ Yes ☐ No

iii. Will line extension within an existing district be necessary to supply the project? ☐ Yes ☑ No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

_____

- Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐ Yes ☑ No

If, Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

_____

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☐ Yes ☑ No

If Yes:

i. Total anticipated liquid waste generation per day: _____ gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

_____

_____

iii. Will the proposed action use any existing public wastewater treatment facilities? ☑ Yes ☐ No

If Yes:

- Name of wastewater treatment plant to be used: Bird Island Waste Water Treatment Plant
- Name of district: _____
- Does the existing wastewater treatment plant have capacity to serve the project? ☑ Yes ☐ No
- Is the project site in the existing district? ☑ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☑ No

- Do existing sewer lines serve the project site? ☑ Yes ☐ No
- Will a line extension within an existing district be necessary to serve the project? ☐ Yes ☑ No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

_____

_____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? ☐ Yes ☑ No

If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

_____

_____

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

_____

_____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? ☐ Yes ☑ No

If Yes:

i. How much impervious surface will the project create in relation to total size of project parcel?

_____ Square feet or _____ acres (impervious surface)

_____ Square feet or _____ acres (parcel size)

ii. Describe types of new point sources. _____

_____

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

_____

_____

- If to surface waters, identify receiving water bodies or wetlands: _____

_____

_____

- Will stormwater runoff flow to adjacent properties? ☐ Yes ☑ No

iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? ☑ Yes ☐ No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? ☐ Yes ☑ No

If Yes, identify:

i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

_____

ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

_____

iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

_____

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? ☐ Yes ☑ No

If Yes:

i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) ☐ Yes ☑ No

ii. In addition to emissions as calculated in the application, the project will generate:

- _____Tons/year (short tons) of Carbon Dioxide (CO_2)
- _____Tons/year (short tons) of Nitrous Oxide (N_2O)
- _____Tons/year (short tons) of Perfluorocarbons (PFCs)
- _____Tons/year (short tons) of Sulfur Hexafluoride (SF_6)
- _____Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)
- _____Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? ☐Yes ☑No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

_____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? ☐Yes ☑No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):

_____

_____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? ☐Yes ☑No

If Yes:

i. When is the peak traffic expected (Check all that apply): ☐ Morning ☐ Evening ☐Weekend ☐ Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____

_____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? ☐Yes ☑No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe:

_____

vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? ☑Yes ☐No

vii Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? ☐Yes ☑No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? ☐Yes ☑No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? ☐Yes ☑No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____

_____

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other):

_____

iii. Will the proposed action require a new, or an upgrade, to an existing substation? ☐Yes ☑No

l. Hours of operation. Answer all items which apply.

i. During Construction:

- Monday - Friday: 8 AM - 4 PM
- Saturday: _____
- Sunday: _____
- Holidays: _____

ii. During Operations:

- Monday - Friday: _____
- Saturday: _____
- Sunday: _____
- Holidays: _____

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? ☐ Yes ☑ No

If yes:

i. Provide details including sources, time of day and duration:

_____

_____

ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? ☐ Yes ☑ No

Describe: _____

_____

n. Will the proposed action have outdoor lighting? ☐ Yes ☑ No

If yes:

i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

_____

_____

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? ☐ Yes ☑ No

Describe: _____

_____

o. Does the proposed action have the potential to produce odors for more than one hour per day? ☑ Yes ☐ No

If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____

Odor may be expected based on the contents being stored. The basin will have the potential to emit odors from the above grade hatches or manholes. The basin will activate approximately 45 times a year. The outlet valve will be closed to fully restrict flow 30 of the 45 times that the basin is activated. The total duration on average for each of the times the valve is closed would be 15 hours. The Charter School for inquiry is approximately 80 feet to the east of the nearest above grade feature in the preliminary design. The Final Designer will review the design aspects to determine if/what odor control is required.

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? ☐ Yes ☑ No

If Yes:

i. Product(s) to be stored _____

ii. Volume(s) _____ per unit time _____ (e.g., month, year)

iii. Generally, describe the proposed storage facilities:_____

_____

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ☐ Yes ☑ No

If Yes:

i. Describe proposed treatment(s):

_____

_____

_____

_____

ii. Will the proposed action use Integrated Pest Management Practices? ☐ Yes ☑ No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? ☐ Yes ☑ No

If Yes:

i. Describe any solid waste(s) to be generated during construction or operation of the facility:

- Construction: _____ tons per _____ (unit of time)
- Operation : _____ tons per _____ (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction: _____

  _____
- Operation: _____

  _____

iii. Proposed disposal methods/facilities for solid waste generated on-site:

- Construction: _____

  _____
- Operation: _____

  _____

s. Does the proposed action include construction or modification of a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

_____

_____

ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

_____

_____

iii. Specify amount to be handled or generated _____ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

_____

_____

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☐ Yes ☑ No

If Yes: provide name and location of facility: _____

_____

If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

_____

_____

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site.

☑ Urban ☐ Industrial ☐ Commercial ☑ Residential (suburban) ☐ Rural (non-farm)

☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other (specify): _____

ii. If mix of uses, generally describe:

_____

_____

b. Land uses and covertypes on the project site.

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	2	2	0
• Forested			
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)			
• Agricultural (includes active orchards, field, greenhouse etc.)			
• Surface water features (lakes, ponds, streams, rivers, etc.)			
• Wetlands (freshwater or tidal)			
• Non-vegetated (bare rock, earth or fill)			
• Other Describe: _____ _____			

c. Is the project site presently used by members of the community for public recreation? ☑ Yes ☐ No

i. If Yes: explain: Site is eastern portion of Roosevelt Park. Park will be restored after construction

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? ☑ Yes ☐ No

If Yes,

i. Identify Facilities:

Charter School of Inquiry

e. Does the project site contain an existing dam? ☐ Yes ☑ No

If Yes:

i. Dimensions of the dam and impoundment:

- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____

iii. Provide date and summarize results of last inspection:

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Has the facility been formally closed? ☐ Yes ☑ No

- If yes, cite sources/documentation: _____

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

iii. Describe any development constraints due to the prior solid waste activities: _____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? ☐ Yes ☑ No

If Yes:

i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: ☐ Yes ☑ No

☐ Yes – Spills Incidents database — Provide DEC ID number(s): _____

☐ Yes – Environmental Site Remediation database — Provide DEC ID number(s): _____

☐ Neither database

ii. If site has been subject of RCRA corrective activities, describe control measures:_____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? ☑ Yes ☐ No

If yes, provide DEC ID number(s): 915156

iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

The site is going through active remediation. See environmental memo

v. Is the project site subject to an institutional control limiting property uses? ☐ Yes ☑ No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? ☐ Yes ☑ No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? 7-10 feet

b. Are there bedrock outcroppings on the project site? ☐ Yes ☑ No
If Yes, what proportion of the site is comprised of bedrock outcroppings? _____%

c. Predominant soil type(s) present on project site: Urban land-Lima complex 100 %
_____ _____%
_____ _____%

d. What is the average depth to the water table on the project site? Average: 1.5-2 feet

e. Drainage status of project site soils:
☐ Well Drained: _____% of site
☑ Moderately Well Drained: 100 % of site
☐ Poorly Drained _____% of site

f. Approximate proportion of proposed action site with slopes:
☑ 0-10%: 100 % of site
☐ 10-15%: _____% of site
☐ 15% or greater: _____% of site

g. Are there any unique geologic features on the project site? ☐ Yes ☑ No
If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☐ Yes ☑ No

ii. Do any wetlands or other waterbodies adjoin the project site? ☐ Yes ☑ No

If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☐ Yes ☑ No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name _____ Classification _____
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name _____ Approximate Size _____
- Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☐ Yes ☑ No

If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? ☐ Yes ☑ No

j. Is the project site in the 100-year Floodplain? ☐ Yes ☑ No

k. Is the project site in the 500-year Floodplain? ☐ Yes ☑ No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☐ Yes ☑ No
If Yes:

i. Name of aquifer: _____

m. Identify the predominant wildlife species that occupy or use the project site: _____

_____ _____ _____

_____ _____ _____

n. Does the project site contain a designated significant natural community? ☐ Yes ☑ No

If Yes:

i. Describe the habitat/community (composition, function, and basis for designation): _____

_____

ii. Source(s) of description or evaluation: _____

iii. Extent of community/habitat:

- Currently: _____ acres
- Following completion of project as proposed: _____ acres
- Gain or loss (indicate + or -): _____ acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☐ Yes ☑ No

If Yes:

i. Species and listing (endangered or threatened): _____

_____

_____

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☐ Yes ☑ No

If Yes:

i. Species and listing: _____

_____

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☐ Yes ☑ No

If yes, give a brief description of how the proposed action may affect that use: _____

_____

E.3. Designated Public Resources On or Near Project Site

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☐ Yes ☑ No

If Yes, provide county plus district name/number: _____

b. Are agricultural lands consisting of highly productive soils present? ☐ Yes ☑ No

i. If Yes: acreage(s) on project site? _____

ii. Source(s) of soil rating(s): _____

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐ Yes ☑ No

If Yes:

i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature

ii. Provide brief description of landmark, including values behind designation and approximate size/extent: _____

_____

_____

d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? ☐ Yes ☑ No

If Yes:

i. CEA name: _____

ii. Basis for designation: _____

iii. Designating agency and date: _____

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? ☐ Yes ☑ No

If Yes:

i. Nature of historic/archaeological resource: ☐ Archaeological Site ☐ Historic Building or District

ii. Name: _____

iii. Brief description of attributes on which listing is based:

_____

f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? ☐ Yes ☑ No

g. Have additional archaeological or historic site(s) or resources been identified on the project site? ☐ Yes ☑ No

If Yes:

i. Describe possible resource(s): _____

ii. Basis for identification: _____

h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? ☐ Yes ☑ No

If Yes:

i. Identify resource: _____

ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____

iii. Distance between project and resource: _____ miles.

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? ☐ Yes ☑ No

If Yes:

i. Identify the name of the river and its designation: _____

ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? ☐ Yes ☐ No

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

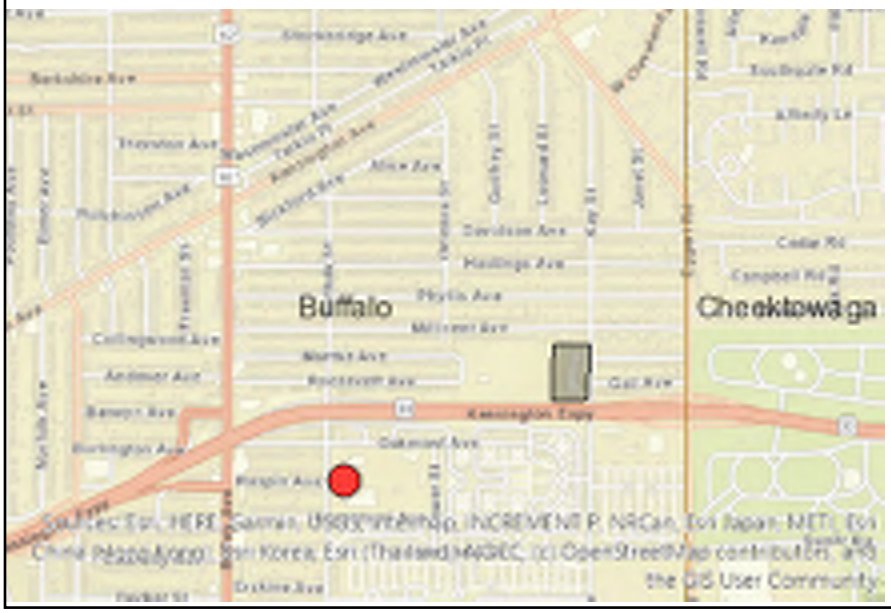
Applicant/Sponsor Name Rosaleen Nogle, PE Date _____

Signature _____ Title Principal Sanitary Engineer

PRINT FORM

EAF Mapper Summary Report

Thursday, May 16, 2024 9:18 AM

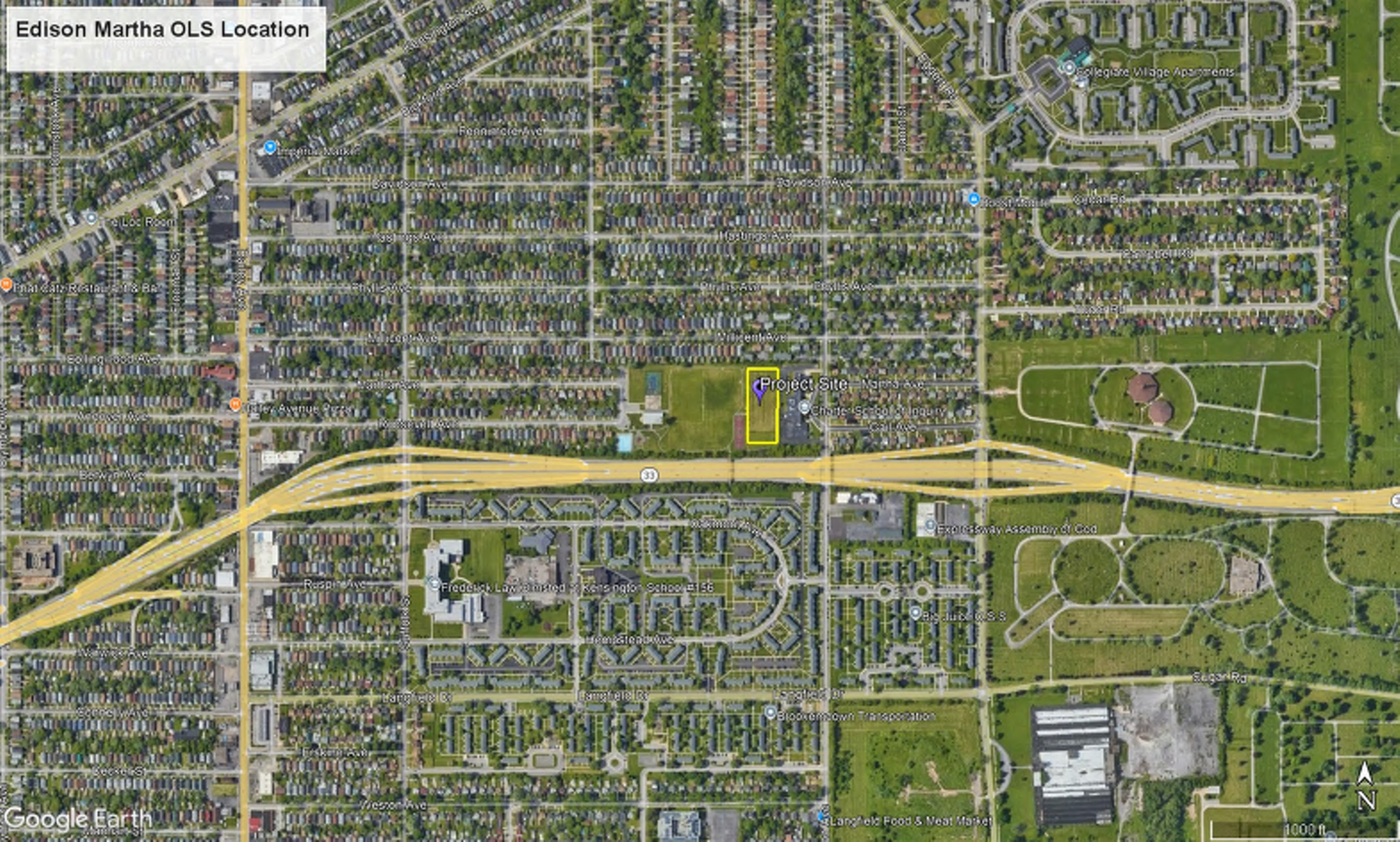


Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.

B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Yes - Digital mapping data are not available for all Special Planning Districts. Refer to EAF Workbook.
C.2.b. [Special Planning District - Name]	NYS Heritage Areas:West Erie Canal Corridor
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	Yes
E.1.h.iii [Within 2,000' of DEC Remediation Site - DEC ID]	915156
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	No
E.2.h.ii [Surface Water Features]	No
E.2.h.iii [Surface Water Features]	No
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	No
E.2.k. [500 Year Floodplain]	No
E.2.l. [Aquifers]	No
E.2.n. [Natural Communities]	No

E.2.o. [Endangered or Threatened Species]	No
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.3.f. [Archeological Sites]	No
E.3.i. [Designated River Corridor]	No

Edison Martha OLS Location



Involved/Interested Agencies

City of Buffalo Common Council University District
Rasheed Wyatt
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City of Buffalo Department of Public Works, Parks & Streets – Parks
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City of Buffalo Department of Public Works, Parks & Streets
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Buffalo Environmental Management Commission
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920 City Hall
65 Niagara Square
Buffalo, NY 14202

New York State Historic Preservation Office (consultation completed online)
1 Delaware Avenue North, Cohoes, NY 12047

U.S. Fish and Wildlife Service (consultation completed online)
1849 C Street, NW
Washington, DC 20240

BUFFALO
SEWER AUTHORITY

ATTACHMENT C-2

Agency Use Only [If applicable]

Project :

Date :

Full Environmental Assessment Form
Part 2 - Identification of Potential Project Impacts

Part 2 is to be completed by the lead agency. Part 2 is designed to help the lead agency inventory all potential resources that could be affected by a proposed project or action. We recognize that the lead agency's reviewer(s) will not necessarily be environmental professionals. So, the questions are designed to walk a reviewer through the assessment process by providing a series of questions that can be answered using the information found in Part 1. To further assist the lead agency in completing Part 2, the form identifies the most relevant questions in Part 1 that will provide the information needed to answer the Part 2 question. When Part 2 is completed, the lead agency will have identified the relevant environmental areas that may be impacted by the proposed activity.

If the lead agency is a state agency **and** the action is in any Coastal Area, complete the Coastal Assessment Form before proceeding with this assessment.

Tips for completing Part 2:

- Review all of the information provided in Part 1.
- Review any application, maps, supporting materials and the Full EAF Workbook.
- Answer each of the 18 questions in Part 2.
- If you answer "**Yes"** to a numbered question, please complete all the questions that follow in that section.
- If you answer "**No"** to a numbered question, move on to the next numbered question.
- Check appropriate column to indicate the anticipated size of the impact.
- Proposed projects that would exceed a numeric threshold contained in a question should result in the reviewing agency checking the box "Moderate to large impact may occur."
- The reviewer is not expected to be an expert in environmental analysis.
- If you are not sure or undecided about the size of an impact, it may help to review the sub-questions for the general question and consult the workbook.
- When answering a question consider all components of the proposed activity, that is, the "whole action".
- Consider the possibility for long-term and cumulative impacts as well as direct impacts.
- Answer the question in a reasonable manner considering the scale and context of the project.

1. Impact on Land

Proposed action may involve construction on, or physical alteration of, the land surface of the proposed site. (See Part 1. D.1)

☐ NO ☑ YES

If "Yes", answer questions a - j. If "No", move on to Section 2.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may involve construction on land where depth to water table is less than 3 feet.	E2d	☑	☐
b. The proposed action may involve construction on slopes of 15% or greater.	E2f	☑	☐
c. The proposed action may involve construction on land where bedrock is exposed, or generally within 5 feet of existing ground surface.	E2a	☑	☐
d. The proposed action may involve the excavation and removal of more than 1,000 tons of natural material.	D2a	☐	☑
e. The proposed action may involve construction that continues for more than one year or in multiple phases.	D1e	☐	☑
f. The proposed action may result in increased erosion, whether from physical disturbance or vegetation removal (including from treatment by herbicides).	D2e, D2q	☑	☐
g. The proposed action is, or may be, located within a Coastal Erosion hazard area.	B1i	☑	☐
h. Other impacts: _____		☑	☐

2. Impact on Geological Features

The proposed action may result in the modification or destruction of, or inhibit access to, any unique or unusual land forms on the site (e.g., cliffs, dunes, minerals, fossils, caves). (See Part 1. E.2.g)

☑ NO ☐ YES

If "Yes", answer questions a - c. If "No", move on to Section 3.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Identify the specific land form(s) attached: _____ _____	E2g	☐	☐
b. The proposed action may affect or is adjacent to a geological feature listed as a registered National Natural Landmark. Specific feature: _____	E3c	☐	☐
c. Other impacts: _____ _____		☐	☐

3. Impacts on Surface Water

The proposed action may affect one or more wetlands or other surface water bodies (e.g., streams, rivers, ponds or lakes). (See Part 1. D.2, E.2.h)

☑ NO ☐ YES

If "Yes", answer questions a - l. If "No", move on to Section 4.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may create a new water body.	D2b, D1h	☐	☐
b. The proposed action may result in an increase or decrease of over 10% or more than a 10 acre increase or decrease in the surface area of any body of water.	D2b	☐	☐
c. The proposed action may involve dredging more than 100 cubic yards of material from a wetland or water body.	D2a	☐	☐
d. The proposed action may involve construction within or adjoining a freshwater or tidal wetland, or in the bed or banks of any other water body.	E2h	☐	☐
e. The proposed action may create turbidity in a waterbody, either from upland erosion, runoff or by disturbing bottom sediments.	D2a, D2h	☐	☐
f. The proposed action may include construction of one or more intake(s) for withdrawal of water from surface water.	D2c	☐	☐
g. The proposed action may include construction of one or more outfall(s) for discharge of wastewater to surface water(s).	D2d	☐	☐
h. The proposed action may cause soil erosion, or otherwise create a source of stormwater discharge that may lead to siltation or other degradation of receiving water bodies.	D2e	☐	☐
i. The proposed action may affect the water quality of any water bodies within or downstream of the site of the proposed action.	E2h	☐	☐
j. The proposed action may involve the application of pesticides or herbicides in or around any water body.	D2q, E2h	☐	☐
k. The proposed action may require the construction of new, or expansion of existing, wastewater treatment facilities.	D1a, D2d	☐	☐

l. Other impacts: _____ _____		□	□

4. Impact on groundwater

The proposed action may result in new or additional use of ground water, or may have the potential to introduce contaminants to ground water or an aquifer. (See Part 1. D.2.a, D.2.c, D.2.d, D.2.p, D.2.q, D.2.t) ☑ NO ☐ YES

If "Yes", answer questions a - h. If "No", move on to Section 5.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may require new water supply wells, or create additional demand on supplies from existing water supply wells.	D2c	□	□
b. Water supply demand from the proposed action may exceed safe and sustainable withdrawal capacity rate of the local supply or aquifer. Cite Source: _____	D2c	□	□
c. The proposed action may allow or result in residential uses in areas without water and sewer services.	D1a, D2c	□	□
d. The proposed action may include or require wastewater discharged to groundwater.	D2d, E2l	□	□
e. The proposed action may result in the construction of water supply wells in locations where groundwater is, or is suspected to be, contaminated.	D2c, E1f, E1g, E1h	□	□
f. The proposed action may require the bulk storage of petroleum or chemical products over ground water or an aquifer.	D2p, E2l	□	□
g. The proposed action may involve the commercial application of pesticides within 100 feet of potable drinking water or irrigation sources.	E2h, D2q, E2l, D2c	□	□
h. Other impacts: _____ _____		□	□

5. Impact on Flooding

The proposed action may result in development on lands subject to flooding. (See Part 1. E.2) ☑ NO ☐ YES

If "Yes", answer questions a - g. If "No", move on to Section 6.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in development in a designated floodway.	E2i	□	□
b. The proposed action may result in development within a 100 year floodplain.	E2j	□	□
c. The proposed action may result in development within a 500 year floodplain.	E2k	□	□
d. The proposed action may result in, or require, modification of existing drainage patterns.	D2b, D2e	□	□
e. The proposed action may change flood water flows that contribute to flooding.	D2b, E2i, E2j, E2k	□	□
f. If there is a dam located on the site of the proposed action, is the dam in need of repair, or upgrade?	E1e	□	□

g. Other impacts: _____ _____		☐	☐

6. Impacts on Air

The proposed action may include a state regulated air emission source. (See Part 1. D.2.f., D.2.h, D.2.g) ☑ NO ☐ YES

If "Yes", answer questions a - f. If "No", move on to Section 7.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. If the proposed action requires federal or state air emission permits, the action may also emit one or more greenhouse gases at or above the following levels:			
i. More than 1000 tons/year of carbon dioxide (CO_2)	D2g	☐	☐
ii. More than 3.5 tons/year of nitrous oxide (N_2O)	D2g	☐	☐
iii. More than 1000 tons/year of carbon equivalent of perfluorocarbons (PFCs)	D2g	☐	☐
iv. More than .045 tons/year of sulfur hexafluoride (SF_6)	D2g	☐	☐
v. More than 1000 tons/year of carbon dioxide equivalent of hydrochloroflourocarbons (HFCs) emissions	D2g	☐	☐
vi. 43 tons/year or more of methane	D2h	☐	☐
b. The proposed action may generate 10 tons/year or more of any one designated hazardous air pollutant, or 25 tons/year or more of any combination of such hazardous air pollutants.	D2g	☐	☐
c. The proposed action may require a state air registration, or may produce an emissions rate of total contaminants that may exceed 5 lbs. per hour, or may include a heat source capable of producing more than 10 million BTU's per hour.	D2f, D2g	☐	☐
d. The proposed action may reach 50% of any of the thresholds in "a" through "c", above.	D2g	☐	☐
e. The proposed action may result in the combustion or thermal treatment of more than 1 ton of refuse per hour.	D2s	☐	☐
f. Other impacts: _____		☐	☐

7. Impact on Plants and Animals

The proposed action may result in a loss of flora or fauna. (See Part 1. E.2. m.-q.) ☑ NO ☐ YES

If "Yes", answer questions a - j. If "No", move on to Section 8.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may cause reduction in population or loss of individuals of any threatened or endangered species, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2o	☐	☐
b. The proposed action may result in a reduction or degradation of any habitat used by any rare, threatened or endangered species, as listed by New York State or the federal government.	E2o	☐	☐
c. The proposed action may cause reduction in population, or loss of individuals, of any species of special concern or conservation need, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2p	☐	☐
d. The proposed action may result in a reduction or degradation of any habitat used by any species of special concern and conservation need, as listed by New York State or the Federal government.	E2p	☐	☐

e. The proposed action may diminish the capacity of a registered National Natural Landmark to support the biological community it was established to protect.	E3c	□	□
f. The proposed action may result in the removal of, or ground disturbance in, any portion of a designated significant natural community. Source: _____	E2n	□	□
g. The proposed action may substantially interfere with nesting/breeding, foraging, or over-wintering habitat for the predominant species that occupy or use the project site.	E2m	□	□
h. The proposed action requires the conversion of more than 10 acres of forest, grassland or any other regionally or locally important habitat. Habitat type & information source: _____ _____	E1b	□	□
i. Proposed action (commercial, industrial or recreational projects, only) involves use of herbicides or pesticides.	D2q	□	□
j. Other impacts: _____ _____		□	□

8. Impact on Agricultural Resources

The proposed action may impact agricultural resources. (See Part 1. E.3.a. and b.) ☑ NO ☐ YES

If "Yes", answer questions a - h. If "No", move on to Section 9.

	Relevant Part I Question(s)	**No, or small impact may occur**	**Moderate to large impact may occur**
a. The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System.	E2c, E3b	□	□
b. The proposed action may sever, cross or otherwise limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc).	E1a, Elb	□	□
c. The proposed action may result in the excavation or compaction of the soil profile of active agricultural land.	E3b	□	□
d. The proposed action may irreversibly convert agricultural land to non-agricultural uses, either more than 2.5 acres if located in an Agricultural District, or more than 10 acres if not within an Agricultural District.	E1b, E3a	□	□
e. The proposed action may disrupt or prevent installation of an agricultural land management system.	El a, E1b	□	□
f. The proposed action may result, directly or indirectly, in increased development potential or pressure on farmland.	C2c, C3, D2c, D2d	□	□
g. The proposed project is not consistent with the adopted municipal Farmland Protection Plan.	C2c	□	□
h. Other impacts: _____		□	□

9. Impact on Aesthetic Resources

The land use of the proposed action are obviously different from, or are in sharp contrast to, current land use patterns between the proposed project and a scenic or aesthetic resource. (Part 1. E.1.a, E.1.b, E.3.h.)

☑ NO ☐ YES

If "Yes", answer questions a - g. If "No", go to Section 10.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Proposed action may be visible from any officially designated federal, state, or local scenic or aesthetic resource.	E3h	☐	☐
b. The proposed action may result in the obstruction, elimination or significant screening of one or more officially designated scenic views.	E3h, C2b	☐	☐
c. The proposed action may be visible from publicly accessible vantage points: i. Seasonally (e.g., screened by summer foliage, but visible during other seasons) ii. Year round	E3h	 ☐ ☐	 ☐ ☐
d. The situation or activity in which viewers are engaged while viewing the proposed action is: i. Routine travel by residents, including travel to and from work ii. Recreational or tourism based activities	E3h E2q, E1c	 ☐ ☐	 ☐ ☐
e. The proposed action may cause a diminishment of the public enjoyment and appreciation of the designated aesthetic resource.	E3h	☐	☐
f. There are similar projects visible within the following distance of the proposed project: 0-1/2 mile ½ -3 mile 3-5 mile 5+ mile	D1a, E1a, D1f, D1g	☐	☐
g. Other impacts: _____		☐	☐

10. Impact on Historic and Archeological Resources

The proposed action may occur in or adjacent to a historic or archaeological resource. (Part 1. E.3.e, f. and g.)

☑ NO ☐ YES

If "Yes", answer questions a - e. If "No", go to Section 11.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may occur wholly or partially within, or substantially contiguous to, any buildings, archaeological site or district which is listed on the National or State Register of Historical Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places.	E3e	☐	☐
b. The proposed action may occur wholly or partially within, or substantially contiguous to, an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory.	E3f	☐	☐
c. The proposed action may occur wholly or partially within, or substantially contiguous to, an archaeological site not included on the NY SHPO inventory. Source: _____	E3g	☐	☐

d. Other impacts: _____ _____		☐	☐
e. If any of the above (a-d) are answered "Moderate to large impact may occur", continue with the following questions to help support conclusions in Part 3:			
i. The proposed action may result in the destruction or alteration of all or part of the site or property.	E3e, E3g, E3f	☐	☐
ii. The proposed action may result in the alteration of the property's setting or integrity.	E3e, E3f, E3g, E1a, E1b	☐	☐
iii. The proposed action may result in the introduction of visual elements which are out of character with the site or property, or may alter its setting.	E3e, E3f, E3g, E3h, C2, C3	☐	☐

11. Impact on Open Space and Recreation

The proposed action may result in a loss of recreational opportunities or a reduction of an open space resource as designated in any adopted municipal open space plan.
(See Part 1. C.2.c, E.1.c., E.2.q.)
If "Yes", answer questions a - e. If "No", go to Section 12.

☐ NO ☑ YES

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in an impairment of natural functions, or "ecosystem services", provided by an undeveloped area, including but not limited to stormwater storage, nutrient cycling, wildlife habitat.	D2e, E1b E2h, E2m, E2o, E2n, E2p	☑	☐
b. The proposed action may result in the loss of a current or future recreational resource.	C2a, E1c, C2c, E2q	☑	☐
c. The proposed action may eliminate open space or recreational resource in an area with few such resources.	C2a, C2c E1c, E2q	☐	☑
d. The proposed action may result in loss of an area now used informally by the community as an open space resource.	C2c, E1c	☐	☑
e. Other impacts: _____ _____		☐	☐

12. Impact on Critical Environmental Areas

The proposed action may be located within or adjacent to a critical environmental area (CEA). (See Part 1. E.3.d)
If "Yes", answer questions a - c. If "No", go to Section 13.

☑ NO ☐ YES

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in a reduction in the quantity of the resource or characteristic which was the basis for designation of the CEA.	E3d	☐	☐
b. The proposed action may result in a reduction in the quality of the resource or characteristic which was the basis for designation of the CEA.	E3d	☐	☐
c. Other impacts: _____ _____		☐	☐

13. Impact on Transportation
The proposed action may result in a change to existing transportation systems. ☐ NO ☑ YES
(See Part 1. D.2.j)
If "Yes", answer questions a - f. If "No", go to Section 14.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Projected traffic increase may exceed capacity of existing road network.	D2j	☑	☐
b. The proposed action may result in the construction of paved parking area for 500 or more vehicles.	D2j	☑	☐
c. The proposed action will degrade existing transit access.	D2j	☑	☐
d. The proposed action will degrade existing pedestrian or bicycle accommodations.	D2j	☑	☐
e. The proposed action may alter the present pattern of movement of people or goods.	D2j	☑	☐
f. Other impacts: _____		☐	☐

14. Impact on Energy
The proposed action may cause an increase in the use of any form of energy. ☑ NO ☐ YES
(See Part 1. D.2.k)
If "Yes", answer questions a - e. If "No", go to Section 15.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action will require a new, or an upgrade to an existing, substation.	D2k	□	□
b. The proposed action will require the creation or extension of an energy transmission or supply system to serve more than 50 single or two-family residences or to serve a commercial or industrial use.	D1f, D1q, D2k	□	□
c. The proposed action may utilize more than 2,500 MWhrs per year of electricity.	D2k	□	□
d. The proposed action may involve heating and/or cooling of more than 100,000 square feet of building area when completed.	D1g	□	□
e. Other Impacts: _____			

15. Impact on Noise, Odor, and Light
The proposed action may result in an increase in noise, odors, or outdoor lighting. ☐ NO ☑ YES
(See Part 1. D.2.m., n., and o.)
If "Yes", answer questions a - f. If "No", go to Section 16.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may produce sound above noise levels established by local regulation.	D2m	☑	☐
b. The proposed action may result in blasting within 1,500 feet of any residence, hospital, school, licensed day care center, or nursing home.	D2m, E1d	☑	☐
c. The proposed action may result in routine odors for more than one hour per day.	D2o	☐	☑

d. The proposed action may result in light shining onto adjoining properties.	D2n	☑	☐
e. The proposed action may result in lighting creating sky-glow brighter than existing area conditions.	D2n, E1a	☑	☐
f. Other impacts: _____ _____		☑	☐

16. Impact on Human Health

The proposed action may have an impact on human health from exposure to new or existing sources of contaminants. (See Part 1.D.2.q., E.1. d. f. g. and h.) ☐ NO ☑ YES

If "Yes", answer questions a - m. If "No", go to Section 17.

	Relevant Part I Question(s)	No,or small impact may cccur	Moderate to large impact may occur
a. The proposed action is located within 1500 feet of a school, hospital, licensed day care center, group home, nursing home or retirement community.	E1d	☐	☑
b. The site of the proposed action is currently undergoing remediation.	E1g, E1h	☑	☐
c. There is a completed emergency spill remediation, or a completed environmental site remediation on, or adjacent to, the site of the proposed action.	E1g, E1h	☐	☑
d. The site of the action is subject to an institutional control limiting the use of the property (e.g., easement or deed restriction).	E1g, E1h	☑	☐
e. The proposed action may affect institutional control measures that were put in place to ensure that the site remains protective of the environment and human health.	E1g, E1h	☑	☐
f. The proposed action has adequate control measures in place to ensure that future generation, treatment and/or disposal of hazardous wastes will be protective of the environment and human health.	D2t	☑	☐
g. The proposed action involves construction or modification of a solid waste management facility.	D2q, E1f	☑	☐
h. The proposed action may result in the unearthing of solid or hazardous waste.	D2q, E1f	☑	☐
i. The proposed action may result in an increase in the rate of disposal, or processing, of solid waste.	D2r, D2s	☑	☐
j. The proposed action may result in excavation or other disturbance within 2000 feet of a site used for the disposal of solid or hazardous waste.	E1f, E1g E1h	☑	☐
k. The proposed action may result in the migration of explosive gases from a landfill site to adjacent off site structures.	E1f, E1g	☑	☐
l. The proposed action may result in the release of contaminated leachate from the project site.	D2s, E1f, D2r	☑	☐
m. Other impacts: _____ _____		☑	☐

17. Consistency with Community Plans

The proposed action is not consistent with adopted land use plans. ☑ NO ☐ YES

(See Part 1. C.1, C.2. and C.3.)

If "Yes", answer questions a - h. If "No", go to Section 18.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action's land use components may be different from, or in sharp contrast to, current surrounding land use pattern(s).	C2, C3, D1a E1a, E1b	☐	☐
b. The proposed action will cause the permanent population of the city, town or village in which the project is located to grow by more than 5%.	C2	☐	☐
c. The proposed action is inconsistent with local land use plans or zoning regulations.	C2, C2, C3	☐	☐
d. The proposed action is inconsistent with any County plans, or other regional land use plans.	C2, C2	☐	☐
e. The proposed action may cause a change in the density of development that is not supported by existing infrastructure or is distant from existing infrastructure.	C3, D1c, D1d, D1f, D1d, Elb	☐	☐
f. The proposed action is located in an area characterized by low density development that will require new or expanded public infrastructure.	C4, D2c, D2d D2j	☐	☐
g. The proposed action may induce secondary development impacts (e.g., residential or commercial development not included in the proposed action)	C2a	☐	☐
h. Other: _____ _____		☐	☐

18. Consistency with Community Character

The proposed project is inconsistent with the existing community character. ☐ NO ☑ YES

(See Part 1. C.2, C.3, D.2, E.3)

If "Yes", answer questions a - g. If "No", proceed to Part 3.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may replace or eliminate existing facilities, structures, or areas of historic importance to the community.	E3e, E3f, E3g	☑	☐
b. The proposed action may create a demand for additional community services (e.g. schools, police and fire)	C4	☑	☐
c. The proposed action may displace affordable or low-income housing in an area where there is a shortage of such housing.	C2, C3, D1f D1g, E1a	☑	☐
d. The proposed action may interfere with the use or enjoyment of officially recognized or designated public resources.	C2, E3	☐	☑
e. The proposed action is inconsistent with the predominant architectural scale and character.	C2, C3	☑	☐
f. Proposed action is inconsistent with the character of the existing natural landscape.	C2, C3 E1a, E1b E2g, E2h	☑	☐
g. Other impacts: _____ _____		☑	☐

PRINT FULL FORM

BUFFALO
SEWER AUTHORITY

ATTACHMENT C-3

Agency Use Only [IfApplicable]

Project : Edison Martha OLS

Date : 03/25/2025

Full Environmental Assessment Form
Part 3 - Evaluation of the Magnitude and Importance of Project Impacts
and
Determination of Significance

Part 3 provides the reasons in support of the determination of significance. The lead agency must complete Part 3 for every question in Part 2 where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse environmental impact.

Based on the analysis in Part 3, the lead agency must decide whether to require an environmental impact statement to further assess the proposed action or whether available information is sufficient for the lead agency to conclude that the proposed action will not have a significant adverse environmental impact. By completing the certification on the next page, the lead agency can complete its determination of significance.

Reasons Supporting This Determination:

To complete this section:

- Identify the impact based on the Part 2 responses and describe its magnitude. Magnitude considers factors such as severity, size or extent of an impact.
- Assess the importance of the impact. Importance relates to the geographic scope, duration, probability of the impact occurring, number of people affected by the impact and any additional environmental consequences if the impact were to occur.
- The assessment should take into consideration any design element or project changes.
- Repeat this process for each Part 2 question where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse environmental impact.
- Provide the reason(s) why the impact may, or will not, result in a significant adverse environmental impact
- For Conditional Negative Declarations identify the specific condition(s) imposed that will modify the proposed action so that no significant adverse environmental impacts will result.
- Attach additional sheets, as needed.

Please see attached Significance Statement

Determination of Significance - Type 1 and Unlisted Actions

SEQR Status: ☑ Type 1 ☐ Unlisted

Identify portions of EAF completed for this Project: ☑ Part 1 ☑ Part 2 ☑ Part 3

Upon review of the information recorded on this EAF, as noted, plus this additional support information
Please see attached significance statement

and considering both the magnitude and importance of each identified potential impact, it is the conclusion of the Buffalo Sewer Authority as lead agency that:

☑ A. This project will result in no significant adverse impacts on the environment, and, therefore, an environmental impact statement need not be prepared. Accordingly, this negative declaration is issued.

☐ B. Although this project could have a significant adverse impact on the environment, that impact will be avoided or substantially mitigated because of the following conditions which will be required by the lead agency:

There will, therefore, be no significant adverse impacts from the project as conditioned, and, therefore, this conditioned negative declaration is issued. A conditioned negative declaration may be used only for UNLISTED actions (see 6 NYCRR 617.7(d)).

☐ C. This Project may result in one or more significant adverse impacts on the environment, and an environmental impact statement must be prepared to further assess the impact(s) and possible mitigation and to explore alternatives to avoid or reduce those impacts. Accordingly, this positive declaration is issued.

Name of Action: BSA CSO053_5.2 Edison Martha Offline Storage Tank

Name of Lead Agency: Buffalo Sewer Authority

Name of Responsible Officer in Lead Agency: Rosaleen B. Nogle, PE, BCEE, PMP

Title of Responsible Officer: Principal Sanitary Engineer

Signature of Responsible Officer in Lead Agency: Date:

Signature of Preparer (if different from Responsible Officer) Date:

For Further Information:

Contact Person: Elizabeth Tramposch, PE CORE Environmental Consultants, Inc.

Address: 2312 Wehrle Drive, Williamsville, NY 14221

Telephone Number: 716-204-8054

E-mail: emt@coreenv.com

For Type 1 Actions and Conditioned Negative Declarations, a copy of this Notice is sent to:

Chief Executive Officer of the political subdivision in which the action will be principally located (e.g., Town / City / Village of)
Other involved agencies (if any)
Applicant (if any)
Environmental Notice Bulletin: http://www.dec.ny.gov/enb/enb.html

PRINT FULL FORM

Full Environmental Assessment Form

Part 3 – Evaluation of the Magnitude and Importance of Project Impacts and Determination of Significance

Buffalo Sewer Authority – Edison Martha Offline Storage Tank

Impacts

The following impacts were identified on the FEAF Part 2.

1. Impact on Land

Analysis

The 72-month construction phase of the project requires the excavation of approximately 46,000 cubic yards of native soil for the storage tank installation and the disruption will be localized to the proposed 2-acre construction site. The excavated material will be used as backfill once installation is complete and any excess soil will be disposed of according to regulations at an authorized facility. This level of disturbance could lead to increased erosion potential and changes in drainage patterns. Additionally, excavation activities may result in temporary sedimentation impacts to surrounding areas, particularly if precipitation events occur during construction. The site will experience heavy machinery operation, compaction, and disturbance.

Mitigation Measures

To mitigate potential impacts on land, erosion and sediment control measures will be implemented to prevent soil displacement and sediment transport. Silt fences, stabilized construction entrances, straw wattles, and erosion control blankets will be used where necessary, and all disturbed areas will be stabilized promptly with gravel or temporary vegetation following construction. Additionally, stormwater management best practices will be employed to minimize runoff. Proper grading techniques will be used to direct runoff away from sensitive areas and to prevent pooling.

Impact

With proper mitigation, the impact on land will be moderate but temporary. Given the limited scale of land disturbance, the reuse of excavated material, and the incorporation of erosion control and stormwater management strategies, the proposed project is not expected to result in significant adverse impacts on land. Any potential effects will be temporary and localized, and mitigation measures will be in place to ensure that soil stability and drainage patterns are maintained throughout the project's implementation.

11. Impact on Open Space and Recreation

Analysis

The project is located within Roosevelt Playground, which is an existing public recreational area. The construction activities will temporarily reduce available park space and may limit public access to certain areas. The presence of construction equipment, fencing, and excavation activities will disrupt the usability of this portion of the park for the duration of the 72-month construction period. Although the tank will be buried, the temporary loss of recreational space and the long construction timeline could be a concern for park users.

Mitigation

To minimize the impact on recreation, construction fencing and signage will be used to clearly delineate work zones and maintain public safety. Where feasible, alternative recreational space may be provided in coordination with local authorities. Upon project completion, the site will be restored with appropriate landscaping and surface treatments to ensure that public access and recreational use can resume.

Impact

The impact on open space and recreation will be moderate to significant and long-term but not permanent. While the restriction of public access for six years is a considerable disruption, the impact is not permanent since the park will be restored following construction. However, the long duration of the project amplifies the impact, making it more substantial than a typical short-term construction project.

13. Impact on Transportation

Analysis

The construction of the underground storage tank and associated sewer infrastructure will temporarily impact transportation in the surrounding area, particularly near the intersection of Edison Avenue and the Kensington Expressway. Construction activities will require the staging of equipment and materials, excavation work, and periodic utility connections within or adjacent to the public right-of-way. These activities are expected to disrupt normal traffic patterns, potentially leading to lane closures, detours, and reduced roadway capacity during certain phases of the 72-month construction schedule.

In addition to vehicular traffic, pedestrian pathways and walking routes—especially those leading to and through Roosevelt Playground and nearby schools—will be impacted. Access restrictions, construction fencing, and equipment movement may require rerouting or temporary closure of sidewalks and pedestrian corridors, which could inconvenience park users and school children attending the nearby Charter School for Inquiry.

Mitigation:

Traffic and pedestrian impacts will be mitigated through the implementation of a comprehensive Maintenance and Protection of Traffic (MPT) plan. This plan will include clear signage, temporary pedestrian walkways, detour routes, flagging operations where necessary, and coordination with local transportation agencies and school officials to ensure safe access around the construction zone. Efforts will be made to schedule disruptive work during off-peak hours or school recess periods, where feasible, to reduce impacts on daily routines.

Impact:

The impact on transportation will be moderate and temporary, limited to the duration of the construction period. Upon completion of the project, no long-term or permanent transportation impacts are expected. Normal traffic patterns and pedestrian access will be restored, and there will be no new infrastructure above grade that would interfere with circulation or mobility in the area.

15. Impact on Noise, Odor, and Light

Analysis

Construction activities will generate noise from heavy equipment, excavation, and material transport, which may affect nearby residents and park visitors. The prolonged 72-month construction period could lead to extended exposure to noise impacts. Temporary lighting may also be used for construction work during early morning or evening hours, potentially affecting nearby properties.

Odor impacts are expected to be moderate and recurring based on the tank's operation. The storage basin will activate approximately 45 times per year, with the outlet valve closed for 30 of those times, restricting flow for an average of 15 hours per occurrence. During these times, odors may be emitted from above-grade hatches or manholes due to the nature of the stored contents. Given that the Charter School for Inquiry is only 80 feet from the nearest above-grade feature, there is a potential for noticeable odor impacts on students and staff. The frequency and duration of odor events raise concerns about the potential for recurring air quality issues, particularly during warmer months when higher temperatures may intensify odors.

Mitigation

Noise mitigation measures will include compliance with local noise ordinances, limiting work hours to daytime periods, and using equipment with noise-reduction features. Light pollution will be minimized by directing construction lighting downward and using

shielded fixtures. As the tank is enclosed, there should be no ongoing odor concerns once construction is complete.

Odor control measures will be evaluated and implemented as needed during final design to mitigate potential air quality impacts. Potential mitigation strategies may include activated carbon filtration, biofilters, or chemical treatment systems for odor control at key emission points. Proper ventilation design and periodic maintenance will also help minimize long-term odor concerns. If odor impacts prove to be persistent, additional mitigation efforts, such as enclosure enhancements or additional air treatment systems, may be required.

Impacts

The impact on noise will be significant and long-term but not permanent, persisting for the duration of the 72-month construction phase but ceasing upon project completion. Light pollution will be moderate and temporary, occurring only during construction activities. Odor impacts will be moderate to significant and recurring, depending on the final design and effectiveness of mitigation measures. The proximity of the Charter School for Inquiry and other sensitive receptors increases the importance of implementing effective odor control strategies. While odors will not be constant, the recurring nature of the storage tank's activation means that odor management will be a key long-term consideration for project success.

16. Impact on Human Health

Analysis

During construction, potential air quality impacts from dust, diesel emissions, and airborne particulates may affect nearby residents and park users. If not properly managed, prolonged exposure to construction dust and emissions could pose respiratory risks, particularly for sensitive populations such as children, the elderly, and individuals with pre-existing respiratory conditions. Additionally, excavation may encounter contaminated soils, particularly given the urban nature of the site and the presence of existing underground utilities and infrastructure. Construction activities also pose safety risks, including hazards associated with heavy machinery operation, excavation, and material handling.

In the long term, the project is expected to have significant **positive** impacts on human health by reducing combined sewer overflows (CSOs) into the Scajaquada Tunnel. The reduction of CSO discharges will improve water quality, reducing the risk of waterborne illnesses and improving environmental conditions for both residents and aquatic ecosystems.

Mitigation

Dust control measures, including water spraying, dust suppression barriers, and covering of stockpiled materials, will be implemented to minimize airborne particulates. Construction vehicles and equipment will comply with emissions standards, and idling will be restricted to reduce diesel emissions. If contaminated soil is encountered, it will be handled and disposed of according to environmental regulations, with appropriate safety protocols in place. Strict adherence to Occupational Safety and Health Administration (OSHA) and local construction safety standards will ensure worker and public safety.

Impact

The impact on human health during construction will be moderate and temporary, with proper mitigation measures in place to minimize exposure to air pollutants and safety hazards. In the long term, the project will have a significant beneficial impact, improving public health through reduced CSO discharges and enhanced water quality.

18. Impact on Consistency with Community Character

Analysis:
The project will temporarily alter the character of Roosevelt Playground, a valued public park and recreational space, by converting a portion of it into an active construction zone for the 72-month duration of the project. The presence of fencing, heavy machinery, excavation activities, construction staging areas, and equipment storage will create a visual and functional disruption to the park's established role as a quiet, open space for recreation, relaxation, and community interaction. The community character of the surrounding neighborhood—defined in part by access to and use of this public park—will be temporarily diminished during construction.

The park serves not only local residents but also students and staff at the nearby Charter School for Inquiry, who rely on it for outdoor space and educational activities. The extended duration of the construction period heightens the potential impact, as the disruption will be experienced over multiple seasons and school years. While the project itself is consistent with broader community goals for improving water quality and public health, the temporary loss of this park space contrasts with the community's expectations for continued access to green space.

Mitigation:
To mitigate the impact on community character, the project will include clear signage, fencing, and visual screening to minimize the appearance of construction-related activities from adjacent areas. Coordination with local officials, park stakeholders, and the school community will help identify opportunities to offset the temporary loss of

space—such as improved access to nearby parks, or enhancements to unaffected portions of Roosevelt Playground. Upon completion of construction, the project site will be fully restored with appropriate landscaping, turf, and recreational features to match or exceed the pre-existing condition.

In the final stages of design and restoration, community input may be solicited to ensure the rehabilitated space reflects neighborhood priorities and recreational needs.

Level of Impact:
The impact on consistency with community character will be moderate to significant and temporary, given the park's central role in neighborhood life and the extended duration of construction. However, the impact is not permanent, and restoration of the site to a public recreational use consistent with its original purpose will help reestablish the community character post-construction.

Determination of Significance

The proposed project involves the construction of a 2.61-million-gallon underground storage tank and associated infrastructure within Roosevelt Playground. The project will require the excavation of approximately 46,000 cubic yards of soil and will include a 72-month construction period. Given the scale and duration of the work, the project will have temporary but significant impacts on land, recreation, transportation, noise, light, human health, and community character during construction. Additionally, the operation of the storage tank introduces potential recurring odor impacts, particularly due to its proximity to the Charter School for Inquiry, located approximately 80 feet from the nearest above-grade feature.

Impacts to land will be mitigated through erosion and sediment controls, proper backfilling, and restoration of the site post-construction. The impact on open space and recreation is substantial due to the prolonged loss of public park space, but the area will be restored to its recreational function upon project completion. Noise and light impacts will be significant but temporary, managed through adherence to local ordinances and best practices. Odor impacts could recur approximately 45 times per year, with potential to affect nearby receptors, including the adjacent school; odor control measures will be evaluated and implemented during final design.

Transportation impacts are expected during construction, including disruptions to traffic patterns and pedestrian pathways near the intersection of Edison Avenue and the Kensington Expressway. These impacts will be temporary and mitigated through a Maintenance and Protection of Traffic (MPT) plan, including detour signage, pedestrian safety measures, and coordination with local agencies.

Community character will be temporarily affected due to the transformation of Roosevelt Playground into an active construction zone. The presence of fencing, equipment, and construction activity will diminish the park's aesthetic and functional role in the neighborhood. However, this impact will be temporary, and the site will be fully restored for recreational use once construction is complete.

Despite these temporary disruptions, the project provides substantial long-term environmental benefits, including a reduction in combined sewer overflows (CSOs) to the Scajaquada Tunnel, improved water quality, and enhanced public health protections. With implementation of the identified mitigation measures, the potential adverse effects of the project will be minimized to the extent practicable.

Negative Declaration

Based on the environmental assessment, the project **will not result in significant adverse environmental impacts that cannot be mitigated**. The temporary disruptions during construction—including impacts on land, recreation, transportation, noise, light, air quality, and community character—will be effectively managed through standard construction and environmental best management practices.

While odor emissions during operation have the potential to affect nearby receptors, including the Charter School for Inquiry, the final design will incorporate necessary odor control measures to address these impacts to an acceptable level.

Given that the project will ultimately result in long-term environmental and public health benefits by reducing CSO discharges, improving water quality, and supporting regional stormwater management goals, and because all adverse effects will be temporary and mitigated appropriately, the Buffalo Sewer Authority is issuing a **Negative Declaration** pursuant to the State Environmental Quality Review Act (SEQR). **No significant adverse environmental impacts are anticipated** that would warrant the preparation of an Environmental Impact Statement (EIS).

MINUTES OF THE REGULAR MEETING

OF THE

BUFFALO SEWER AUTHORITY

May 7, 2025

BUFFALO SEWER AUTHORITY

REGULAR MEETING
May 7, 2025
9:00 A.M.

Buffalo City Hall, 65 Niagara Square Room 1038
Teleconference +1 917- 933-2166, ID #545 683 95#

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22	Change Order No. 1 – Contract No. 82000071	59313-14
23	Change Order No. 1 – Contract No. 82000080	59315-16

24	Change Order No. 1 – Contract No. 82000082	59317-18
25	Change Order No. 1 – Contract No. 82000069	59319-20
26	Adoption of Negative Declaration of State Environmental Quality Review for the Breckenridge Combined Sewer Overflow (CSO) Control Project	59321-23
27	Adoption Of Negative Declaration of State Environmental Quality Review for CSO-053_5.2 Edison Martha Offline Sewer Storage Tank	59324-25
28	Adoption Of Negative Declaration of State Environmental Quality Review for CSO-053_1.4 Sidney and Lark Real Time Control (RTC)	59326-27
29	Authorization to Enter into An Agreement with Wendel Companies, Inc., for Professional Engineering Services	59328
30	Adjournment of Meeting	59329

Attachments

Attachment A-1: SEQR FEAF Part 1_Breckenridge Street CSO

Attachment A-2: SEQR FEAF Part 2_Breckenridge Street CSO

Attachment A-3: SEQR FEAF Part 3_Breckenridge Street CSO

Attachment B-1: SEQR FEAF Part 1_CSO053_1.4 Sidney-Lark RTC

Attachment B-2: SEQR FEAF Part 2_CSO053_1.4 Sidney and Lark RTC

Attachment B-3: SEQR FEAF Part 3_CSO053_1.4 Sidney and Lark RTC

Attachment C-1: SEQR FEAF Part 1_CSO053_5.2 Edison Martha

Attachment C-2: SEQR FEAF Part 2_CSO053_5.2 Edison Martha

Attachment C-3: SEQR FEAF Part 3_CSO053.52 Edison Martha

CALL OF THE ROLL

Present:	Herbert Bellamy	Chairman of the Board
	Christopher Roosevelt	Vice Chairman of the Board
	Thomas E. Caulfield	Board Member
	Hope Young Watkins	Board Member
	Patrick Sole Jr.	Board Member
	Charles Riley	Executive Secretary
	Cheryl Colston	General Counsel
	Alexander Emmerson	Treatment Plant Superintendent
	Rosaleen Nogle, P.E.	Principal Sanitary Engineer
	Timothy Blake	Senior Instrument Technician
	Gelea James	Director of Human Resources
	LaToya Cunningham	Special Assistant
	Joel Renzoni	Director of Sewer Maintenance
	Paul Harris	Superintendent of Mechanical Maintenance
	Nadia Mugisha, P.E.	Arcadis
	Dax Blake	Arcadis
	Laura Surdej	Erie County Department of Sewerage
	Walt Walker, P.E.	TYLin
	Rick Ganci	Capital Market Advisors
	Jamie Davidson, P.E.	J.M. Davidson
	Angela Hintz, P.E.	J.M. Davidson
	Joel Woodall	Typist
Absent:		

The meeting was called to order at 10:05. A quorum was present.

ITEM NO. 1

Motion to Adopt the Minutes of the Meeting of April 9, 2025

MOTION TO ADOPT

MADE BY MR. ROOSEVELT

2ND BY MR. SOLE

AYES 5 NOES 0

Board Meeting of May 7, 2025

ITEM NO. 2

APPROVAL OF CONSENT AGENDA

CONTENTS

A. Informative: Temporary Investments

B. Informative: Reallocation of Funds

C. Claim Against Liability and Casualty Reserve Fund

D. Amendment to Schedule of Job Classification Plan

E. Amendment to Schedule of Job Classification Plan

F. Confirmation of Appointments

MOTION TO APPROVE

MADE BY MR. CAULFIELD

2ND BY MR. ROOSEVELT

AYES 5 NOES 0

Board Meeting of May 7, 2025

2-A

INFORMATIVE: TEMPORARY INVESTMENTS (CERTIFICATES OF DEPOSIT AND TREASURY BILLS)

As of March 31st, 2025

ISSUE DATE	MATURITY DATE	TOTAL DAYS	AMOUNT	BANK	RATE	INTEREST AMOUNT
CONSTRUCTION/CAPITAL IMPROVEMENT FUND						
31-Jul-12	**MONEY MARKET**		$2,936,288.77	Key	0.01%	Public NOW
27-Feb-25	10-Apr-25	42	$8,499,049.45	Key Banc Capital	4.21%	$41,950.55
13-Mar-25	24-Apr-25	42	$5,498,890.37	Key Banc Capital	4.21%	$27,109.63
27-Mar-25	8-May-25	42	$8,998,678.75	Key Banc Capital	4.20%	$44,321.25
			$25,932,907.34			
LIABILITY AND CASUALTY RESERVE FUND						
31-Jul-12	**MONEY MARKET**		$641,547.72	Key	0.01%	Public NOW
16-Jan-25	17-Apr-25	91	$779,673.90	Key Banc Capital	4.18%	$8,326.10
			$1,421,221.62			
OPERATING FUND						
31-Jul-12	**SUPER NOW**		**$2,385,997.78**	Key	0.01%	Public NOW
TRUST & AGENCY FUND						
31-Jul-12	**SUPER NOW**		**$20,004.55**	Key	0.01%	Public NOW
SURPLUS FUND						
			$629.72	Wilmington U.S. Treasury	4.79%	
21-Nov-24	15-May-25	175	$10,004,262.50	Key Banc Capital	4.50%	$223,737.50
			$10,004,892.22			
NET REVENUE FUND						
			$1,231,597.54	Wilmington U.S. Treasury		
25-Feb-25	29-Apr-25	63	$6,997,806.64	M&T Securities	4.15%	$51,193.36
27-Mar-25	29-May-25	63	$2,000,295.54	M&T Securities	4.17%	$14,704.46
			$10,229,699.72			

BSA 2021 EIB FUND

			$324,902.08	Cash	0.00%	
14-Nov-24	8-May-25	175	$32,615,964.44	Key Banc Capital	4.26%	$690,035.56
12-Dec-24	5-Jun-25	175	$9,982,955.78	M&T Securities	4.16%	$206,044.22
19-Dec-24	5-Jun-25	168	$10,101,004.00	M&T Securities	4.14%	$198,996.00
			$53,024,826.30			

DEBT RESERVE FUND

			Series J			
02-Jul-14	13-Nov-33	7076	**$278,840.11**	UST State/Local Govt	2.70%	
			Series K			
02-Jul-14	15-Feb-33	6803	**$194,427.37**	UST State/Local Govt	2.70%	
			Series L			
12-Nov-15	1-Oct-35	7263	**$689,547.00**	UST State/Local Govt	2.44%	
			Series M			
27-Jun-14	1-May-44	10901	**$585,063.94**	UST State/Local Govt	2.70%	
			Series N			
15-Nov-12	15-Apr-32	7091	**$2,167,157.00**	UST State/Local Govt	2.42%	
			EFC 2021			
			$3.14	Wilmington U.S. Treasury	4.79%	
13-Feb-25	7-Aug-25	175	$358,563.08	M&T Securities	4.18%	$7,436.92
			$358,566.22			

DSF PRIN &INT

$0.01 Wilmington Fund

DSF 2021 EIB

$1,408,405.06 Wilmington Fund 4.79%

RECEIVE & FILE

Board Meeting of May 7th, 2025

2-B

INFORMATIVE: REALLOCATION OF FUNDS

The following budgetary transfers have been made to cover unforeseen shortages. These transfers do not change the total amount of the Buffalo Sewer Authority's operating budget.

Wastewater Treatment Plant

03/28/2025	00370105 Centrifuge Equipment Maint.	-$20,000.00	00520105 MAIN Equipment Maint.	$20,000.00
03/31/2025	00380103 INCIN Gas	-$110,440.00	00300103 BLOW Electric Light & Power	$110,440.00
04/15/2025	00300103 BLOW Electric Light & Power	-$1,305.00	00430103 BAB Electric Light & Power	$1,305.00

Sewer Maintenance

03/31/2025	00700104 Travel Expenses	-$1,823.75	00700105 Tools	$1,823.75
04/02/2025	00670107 SWRC Operating Equipment	-$2,500.00	00650106 Services & Equip Rentals	$2,500.00
04/14/2025	00700106 EDU, LIC & TRAINING	-$300.00	00700105 GI Agriculture & Botanical	$300.00

Industrial Waste

03/18/2025	00550106 IWS Eng and Tech	-$40,000.00	00380106 INCIN Maintenance Contract	$40,000.00

Engineering Division

03/03/2025	00600106 ENG Maintenance Contract	-$4,000.00	00600104 ENG Travel Expenses	$4,000.00
03/31/2025	00600104 ENG Travel Expenses	-$10,000.00	00600105 ENG Small Tools	$10,000.00

RECEIVE & FILE

Board Meeting of May 7, 2025

2-C

CLAIM AGAINST LIABILITY AND CASUALTY RESERVE FUND

WHEREAS: Annie Williams filed a Notice of Claim for property damage due to a sewer pipe issue and flooded basement at 545 Masten Avenue in the City of Buffalo on January 14, 2025.

WHEREAS: The General Counsel has reviewed this matter and recommends the final settlement amount of $2,128.95 is in the best interest of the Buffalo Sewer Authority.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the payment to Annie Williams in the final settlement amount of $2,128.95 in full and complete settlement of this matter. This claim will be paid out of the Liability and Casualty Reserve Fund.

2-D

AMENDMENT TO SCHEDULE OF JOB CLASSIFICATION PLAN

WHEREAS: There is a need to modify the Job Classification Plan.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority approves the addition of the following positions to the Job Classification Plan:

One (1) Assistant Sanitary Chemist	00550161	411001
Two (2) Laborer I	00700161	411001
Two (2) Wastewater Operators II	00260161	411001
Two (2) Wastewater Operators II	00290161	411001
Two (2) Wastewater Operators II	00360161	411001
Three (3) Second Class Stationary Engineer	00380161	411001

2-E

AMENDMENT TO SCHEDULE OF JOB CLASSIFICATION PLAN

WHEREAS: There is a need to modify the Job Classification Plan.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority approves the deletion of the following positions to the Job Classification Plan:

Two (2) Wastewater Operators II-License	00260161	411001
Two (2) Wastewater Operators II-License	00290161	411001
Two (2) Wastewater Operators II-License	00360161	411001

2-F

CONFIRMATION OF APPOINTMENTS

LABORER I (PERMANENT)
SEWER MAINTENANCE DIVISION
$22.04 PER HOUR
EFFECTIVE: MARCH 31, 2025

ROMAR GAYLES
176 CAROLINA ST. APT. 102
BUFFALO, NY 14201

CLERK (PERMANENT)
TREATMENT PLANT ADMINISTRATION
$46,597 PER ANNUM
EFFECTIVE: MARCH 31, 2025

YANELIZ TOMASINI SOSA
377 MASSACHUSETTS
BUFFALO, NY 14213

LABORER II (PERMANENT)
MAINTENANCE DIVISION
$23.34 PER HOUR
EFFECTIVE: APRIL 14, 2025

BRUCE FRYER SR.
69 PROCTOR AVE.
BUFFALO, NY 14215

LABORER I (PERMANENT)
SEWER MAINTENANCE DIVISION
$22.04 PER HOUR
EFFECTIVE: APRIL 21, 2025

MIA CASILLAS
660 CRESECENT AVE
BUFFALO, NY 14216

LABORER I (PERMANENT)
SEWER MAINTENANCE DIVISION
$22.04 PER HOUR
EFFECTIVE: APRIL 21, 2025

AUSTIN CLANCY
3 SUSAN LANE
BUFFALO, NY 14220

SR.1st CLASS STATIONARY ENGINEER (PROVISIONAL)
SEWAGE TREATMENT PLANT
$29.92 PER HOUR
EFFECTIVE: APRIL 21, 2025

JEREMY WASIELEWSKI
358 DOWNING ST.
BUFFALO, NY 14220

WHEREAS: The preceding appointments were made since the last Board Meeting; and

WHEREAS: The Executive Secretary and Principal Sanitary Engineer request confirmation of each appointment.

NOW THEREFORE
BE IT RESOLVED: That the preceding appointments are hereby confirmed by the Board of the Buffalo Sewer Authority

ITEM NO. 3

EXTENSION OF THE CONTRACT FOR GAS BURNER SYSTEM INSPECTION, PREVENTIVE MAINTENANCE AND CORRECTIVE REPAIR SERVICES

WHEREAS: On April 7, 2021, the Board of the Buffalo Sewer Authority awarded a contract to Mollenberg-Betz, Inc., for Gas Burner System Inspection, Preventive Maintenance and Corrective Repair Services for the period July 1, 2021 to June 30, 2022 with an option to renew four (4) one-year periods, at an annual cost not to exceed $40,924.00; and

WHEREAS: On May 4, 2022, the Board authorized the extension of the contract for the period July 1, 2022 to June 30, 2023; and

WHEREAS: On March 1, 2023, the Board authorized the extension of this contract for the period July 1, 2023 to June 30, 2024; and

WHEREAS: On June 26, 2024, the Board authorized the extension of this contract for the period July 1, 2024 to June 30, 2025; and

WHEREAS: Mollenberg-Betz Inc., has agreed to extend this contract for one (1) additional year under the same terms and conditions for fiscal year 2025-2026; and

WHEREAS: The Treatment Plant Superintendent and staff recommend this extension at a total cost not to exceed $40,924.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorize the Executive Secretary and Principal Sanitary Engineer to renew the contract with Mollenberg-Betz, Inc., for Gas Burner System Inspection, Preventive Maintenance and Corrective Repair Services for the period July 1, 2025 to June 30, 2026, at a total cost not to exceed $40,924.00. Expenses for this contract will be charged to account no. 00380106-443421.

MOTION TO APPROVE

MADE BY MR. SOLE

2ND BY MR. ROOSEVELT

AYES 5 NOES 0

Board Meeting of May 7, 2025

ITEM NO. 4

EXTENSION OF THE CONTRACT FOR ANALYTICAL SERVICES

WHEREAS: On May 24, 2023, the Board of the Buffalo Sewer Authority authorized the purchase of analytical services with Eurofins Environment Testing Northeast, LLC; and

WHEREAS: On June 26, 2024, the Board authorized the extension of this contract for the period July 1, 2024 to June 30, 2025; and

WHEREAS: Eurofins Environment Testing Northeast, LLC, has agreed to extend this contract for one (1) additional year under the same terms and conditions for fiscal year 2025-2026; and

WHEREAS: The Treatment Plant Superintendent and staff recommend this extension at a cost not exceed $211,791.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority authorizes the Executive Secretary and Principal Sanitary Engineer to renew the contract with Eurofins Environment Testing Northeast, LLC, for the purchase of analytical services for the period July 1, 2025 to June 30, 2026, at a total cost not to exceed $211,791.00. Expenses for this contract will be charged to account no. 00550106-432004.

MOTION TO APPROVE

MADE BY MR. CAULFIELD

2ND BY MR. ROOSEVELT

AYES 5 NOES 0

Board Meeting of May 7, 2025

ITEM NO. 5

EXTENSION OF THE CONTRACT FOR DIRECT ENERGY MANAGEMENT AND PNEUMATIC CONTROL SYSTEM REPAIR AND SERVICES

WHEREAS: On September 28, 2023, the Board of the Buffalo Sewer Authority awarded a contract to Mollenberg-Betz for Direct Energy Management and Pneumatic Control System Repair and Services for the period July 1, 2023 to June 30, 2024 with an option to renew four (4) one-year periods, at an annual cost not to exceed $66,320.00; and

WHEREAS: On June 26, 2024, the Board authorized the extension of this contract for the period July 1, 2024 to June 30, 2025; and

WHEREAS: Mollenberg-Betz has agreed to extend this contract for one (1) additional year under the same terms and conditions for fiscal year 2025-2026; and

WHEREAS: The Treatment Plant Superintendent and staff recommend this extension at a total cost not to exceed $66,320.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorize the Executive Secretary and Principal Sanitary Engineer to renew the contract with Mollenberg-Betz for Direct Energy Management and Pneumatic Control System Repair and Services for the period July 1, 2025 to June 30, 2026, at a total cost not to exceed $66,320.00. Expenses for this contract will be charged to account no. 00380106-443301.

MOTION TO APPROVE

MADE BY MS. YOUNG-WATKINS

2ND BY MR. CAULFIELD

AYES 5 NOES 0

Board Meeting of May 7, 2025

ITEM NO. 6

EXTENSION OF THE CONTRACT FOR EMISSIONS TESTING

WHEREAS: On May 5, 2021, the Board of the Buffalo Sewer Authority awarded a contract to Gammie Air Monitoring, LLC, for professional services as outlined for the emissions testing of multi-hearth incinerators and auxiliary boilers for the period beginning July 1, 2021 to June 30, 2022, with an option to renew for four (4) one-year periods, at an annual cost not to exceed $95,765.00; and

WHEREAS: On May 4, 2022, the Board authorized the extension of this contract for the period July 1, 2022 to June 30, 2023; and

WHEREAS: On July 26, 2023, the Board authorized the extension of this contract for the period July 1, 2023 to June 30, 2024; and

WHEREAS: On June 26, 2024, the Board authorized the extension of the contract for the period July 1, 2024 to June 30, 2025; and

WHEREAS: Gammie Air Monitoring, LLC, has agreed to extend this contract for one (1) additional year under the same terms and conditions for fiscal year 2025-2026; and

WHEREAS: The Treatment Plant Superintendent and staff recommend this extension at a total cost not to exceed $95,765.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority authorizes the Executive Secretary and Principal Sanitary Engineer to renew the contract with Gammie Air Monitoring, LLC, for professional services for the emissions testing of multi-hearth incinerators and auxiliary boilers for the period July 1, 2025 to June 30, 2026, at a total cost not to exceed $95,765.00. Expenses for this contract will be charged at account no. 00380106-432004.

MOTION TO APPROVE

MADE BY MR. ROOSEVELT

2ND BY MR. CAULFIELD

AYES 5 NOES 0

Board Meeting of May 7, 2025

ITEM NO. 7

EXTENSION OF THE CONTRACT FOR THE REMOVAL AND DISPOSAL OF VARIOUS MATERIALS

WHEREAS: On June 26, 2024, the Board of the Buffalo Sewer Authority awarded a contract to Modern Disposal, for the Removal and Disposal of Various Materials for the period July 1, 2024 to June 30, 2025, at a total cost not to exceed $904,000.00; and

WHEREAS: Modern Disposal Services, Inc., has agreed to extend this contract for one (1) additional year under the same terms and conditions for fiscal year 2025-2026; and

WHEREAS: The Treatment Plant Superintendent and staff recommend this extension at a total cost not to exceed $904,000.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority authorizes the Executive Secretary and Principal Sanitary Engineer to renew the contract with Modern Disposal Services, Inc., for the services of removal and disposal of various materials for the period July 1, 2025 to June 30, 2026, at a total cost not to exceed $904,000.00. Expenses for this contract will be charged to account nos. 00230106-442100, 00290106-442100 and 00380106-442100.

MOTION TO APPROVE

MADE BY MS. YOUNG-WATKINS

2ND BY MR. CAULFIELD

AYES 5 NOES 0

Board Meeting of May 7, 2025

ITEM NO. 8

EXTENSION OF THE CONTRACT FOR SLUDGE INCINERATOR REFRACTORY REHABILITATION

WHEREAS: On May 3, 2023, the Board of the Buffalo Sewer Authority awarded a contract to Plibrico Company for Sludge Incinerator Refractory Rehabilitation for the period July 1, 2023 to June 30, 2024 with an option to renew four (4) one-year periods, at an annual cost not to exceed $179,821.75; and

WHEREAS: On June 26, 2024, the Board authorized the extension of this contract for the period July 1, 2024 to June 30, 2025; and

WHEREAS: Plibrico Company has agreed to extend this contract for one (1) additional year under the same terms and conditions for fiscal year 2025-2026; and

WHEREAS: The Treatment Plant Superintendent and staff recommend this extension at a total cost not to exceed $179,821.75.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority authorizes the Executive Secretary and Principal Sanitary Engineer to renew the contract with Plibrico Company for Sludge Incinerator Refractory Rehabilitation for the period July 1, 2025 to June 30, 2026, at a total cost not to exceed $179,821.75. Expenses for this contract will be charged to account no. 00380106-443421.

MOTION TO APPROVE

MADE BY MR. ROOSEVELT

2ND BY MR. CAULFIELD

AYES 5 NOES 0

Board Meeting of May 7, 2025

ITEM NO. 9

EXTENSION OF THE CONTRACT FOR THE PURCHASE OF POLYMER DEWATERING AID FOR WASTEWATER SLUDGE THICKENING & CONDITIONING

WHEREAS: On May 4, 2022, the Board of the Buffalo Sewer Authority awarded a contract to Polydyne, Inc., for the purchase of Polymer Dewatering Aid for Wastewater Sludge Thickening & Conditioning for the period July 1, 2022 to June 30, 2023 with an option to renew four (4) one-year periods, at an annual cost not to exceed $1,740,000.00; and

WHEREAS: On April 5, 2023, the Board authorized the extension of this contract for the period July 1, 2023 to June 30, 2024; and

WHEREAS: On June 26, 2024, the Board authorized the extension of this contract for the period July 1, 2024 to June 30, 2025; and

WHEREAS: Polydyne, Inc. has agreed to extend this contract for one (1) additional year under the same terms and conditions for fiscal year 2025-2026; and

WHEREAS: The Treatment Plant Superintendent and staff recommend this extension at a total cost not to exceed $1,740,000.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority authorizes the Executive Secretary and Principal Sanitary Engineer to renew the contract with Polydyne, Inc., for the purchase of Polymer Dewatering Aid for Wastewater Sludge Thickening & Conditioning for the period July 1, 2025 to June 30, 2026, at a total cost not to exceed $1,740,000.00. Expenses for this contract will be charged to account nos. 00340105-467044 and 00360105-467044.

MOTION TO APPROVE

MADE BY MR. CAULFIELD

2ND BY MR. ROOSEVELT

AYES 5 NOES 0

Board Meeting of May 7, 2025

ITEM NO. 10

EXTENSION OF THE CONTRACT WITH UNIFIRST CORPORATION FOR UNIFORMS AND UNIFORM SERVICES

WHEREAS: On May 3, 2023, the Board of the Buffalo Sewer Authority awarded a contract to UniFirst Corporation for uniforms and uniform services at the Bird Island Treatment Facility for the period July 1, 2023 to June 30, 2024 with an option to renew four (4) one-year periods, at an annual cost not to exceed $70,888.48; and

WHEREAS: On September 25, 2024, the Board authorized the extension of this contract for the period July 1, 2024 to June 30, 2025; and

WHEREAS: UniFirst Corporation has agreed to extend this contract for one (1) additional year under the same terms and conditions for fiscal year 2025-2026; and

WHEREAS: The Treatment Plant Superintendent and staff recommend this extension at a total cost not to exceed $70,888.48.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority authorizes the Executive Secretary and Principal Sanitary Engineer to renew the contract with UniFirst Corporation for uniforms and uniform services for the period July 1, 2025 to June 30, 2026, at a total cost not to exceed $70,888.48. Expenses for this contract will be charged to account nos. 00200106-442330, 0520106-442330 and 00650106-442330.

MOTION TO APPROVE

MADE BY MR. ROOSEVELT

2ND BY MS. YOUNG-WATKINS

AYES 5 NOES 0

Board Meeting of May 7, 2025

ITEM NO. 11

AUTHORIZATION TO DISPOSE OF VARIOUS OBSOLETE VEHICLES AND EQUIPMENT

WHEREAS: The Buffalo Sewer Authority's current inventory of fixed assets contains equipment and vehicles that are obsolete; and

WHEREAS: The Head Motor Equipment Mechanic, Director of Sewer Maintenance, and Treatment Plant Superintendent recommend disposing of the following vehicles and equipment:

BSA#	Description	VIN#
	Vehicles	
256-S	2003 Ford F350 4X4	3FTSF31533MB39954
279-D	2008 FORD F150 4X4	1FTRF14WX8KC46676
281-D	2008 FORD F150 4X2	1FTRF12268KC46674
286-E	2009 FORD ESCAPE FWD	1FMCU02759KA99794
288-D	2008 FORD F350 4X4	1FDWF37508EE56571
293-D	2009 FORD ESCAPE FWD	1FMCU02719KB19457
324-S	2014 FORD E450 T.V. TRUCK	1FDXE4FS2EDA98976
314-E	2013 FORD F150 4X4	1FTFX1EF9DKF43513
316-S	2013 NEW HOLLAND BACKHOE 4X4	FNHH0B955CNDHH01579
318-D	BOBCAT S750 2013	ATDZ13334
	CONDUX FIBERGLASS DUCT RODDER PART#08083250	2018 LOUDER ID#1S9S8161JD381470 2018 PULLER ID#1S9S51611JD3B1469

;and

WHEREAS: The Authority will first hold an auction utilizing the Erie County Bid No 222152-002 from Monahan Real Estate & Development.

WHEREAS: Any vehicle and/or equipment remaining after the auction will then be scrapped utilizing the City of Buffalo Informal Price Agreement; and

WHEREAS: The results of the auction and scrapping of the vehicles and equipment will be presented to the Board for their information.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to dispose of the above listed vehicles and equipment by auction with the remaining unsold items disposed of under the City of Buffalo's scrap contract.

MOTION TO APPROVE

MADE BY MR. ROOSEVELT

2ND BY MR. CAULFIELD

AYES 5 NOES 0

ITEM NO. 12

AUTHORIZATION TO PURCHASE AND INSTALL STRUCTURE UNDER THE SOURCEWELL CONTRACT

WHEREAS: The Sewer Maintenance Division has a need for additional storage space to house additional equipment and vehicles for the repair and maintenance of the sewers; and

WHEREAS: The Director of Sewer Maintenance request approval to purchase and installation the following steel structure under the Sourcewell Contract:

Awarded Contract	**Vendor**	**Description**	**Cost**
071223-CSS 110822-CSS	ClearSpan	25 W by MONOSLOPE PEMB W 16' low eave .5/12 pitch enclosed Custom beam design and engineering building 36"x80" Commercial grade outswing door(left handed) with sub-jamb Duracoil standard 22ga 16x12 door. Prevailing wage rate installation	$125,711.50

WHEREAS: Purchases over $35,000.00 require Board Approval; and

WHEREAS: The Director of Sewer Maintenance recommends the purchase and installation of the above structure

NOW THEREFORE
BE IT RESOLVED: That The Board of the Buffalo Sewer Authority authorizes the Executive Secretary and Principal Sanitary Engineer to purchase and install the above structure utilizing the Sourcewell contract from ClearSpan at a total cost not to exceed $125,711.50. This purchase will be charged to account no. 00650107-473020.

MOTION TO APPROVE

MADE BY MS. YOUNG-WATKINS

2ND BY MR. CAULFIELD

AYES 5 NOES 0

Board Meeting of May 7, 2025

ITEM NO. 13

EXTENSION OF THE CONTRACT FOR SECURITY GUARD SERVICES

WHEREAS: On July 31, 2024, the Board of the Buffalo Sewer Authority awarded a contract to Universal Protection Services, LLC, D.B.A. Allied Universal Protection Services for security guard services, for a one-year period, with an option to renew four (4) one-year periods, at an annual cost not to exceed $1,125,309.60; and

WHEREAS: Universal Protection Services, LLC, D.B.A. Allied Universal Protection Services has agreed to extend this contract for one (1) additional year under the same terms and conditions for fiscal year 2025-2026; and

WHEREAS: The Superintendent of Mechanical Maintenance and staff recommend this extension at a total cost not to exceed $1,125,309.60.

WHEREAS: Board approval is required for services over $35,000.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to renew the contract with Universal Protection Services, LLC, D.B.A. Allied Universal Protection Services for security guard services for the period July 1, 2025 to June 30, 2026, at a total cost not to exceed $1,125,309.60. Expenses for this contract will be charged to account no. 00200106-434000.

MOTION TO APPROVE

MADE BY MR. CAULFIELD

2ND BY MS. YOUNG-WATKINS

AYES 5 NOES 0

Board Meeting of May 7, 2025

ITEM NO. 14

EXTENSION OF THE CONTRACT FOR ELEVATOR MAINTENANCE

WHEREAS: On May 26, 2021, the Board of the Buffalo Sewer Authority awarded a contract to DCB Elevator Co., Inc., for elevator maintenance services for the period beginning July 1, 2021 to June 30, 2022, with an option to renew for four (4) one-year periods, at an annual cost not to exceed $134,600.00; and

WHEREAS: On May 4, 2022, the Board authorized the extension of this contract with DCB Elevator Co., for one (1) additional year under the same terms and conditions for fiscal year 2022-2023; and

WHEREAS: On April 5, 2023, the Board authorized the extension of this contract with DCB Elevator Co., for one (1) additional year under the same terms and conditions for fiscal year 2023-2024; and

WHEREAS: On June 26, 2024, the Board authorized the extension of this contract with DCB Elevator Co., for one (1) additional year under the same terms and conditions for fiscal year 2024-2025; and

WHEREAS: DCB Elevator Co. has agreed to extend this contract for one (1) additional year under the same terms and conditions for fiscal year 2025-2026; and

WHEREAS: The Treatment Plant Superintendent, Superintendent of Mechanical Maintenance and staff recommend this extension at a total cost not to exceed $134,600.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorize the Executive Secretary and Principal Sanitary Engineer to renew the contract with DCB Elevator Co., Inc., for elevator maintenance services for the period July 1, 2025 to June 30, 2026, at a total cost not to exceed $134,600.00. Expenses for this contract will be charged to account nos. 00380106-443421, 00520103-443421 and 00650106-443421.

MOTION TO APPROVE

MADE BY MR. CAULFIELD

2ND BY MR. ROOSEVELT

AYES 5 NOES 0

Board Meeting of May 7, 2025

ITEM NO. 15

EXTENSION OF THE CONTRACT FOR DOOR INSPECTION, PREVENTATIVE MAINTENANCE AND REPAIR SERVICES FOR EXTERIOR AND INTERIOR DOORS

WHEREAS: On September 25, 2024 the Board of the Buffalo Sewer Authority awarded a contract to A 24 Hour Door National Inc. to provide the Inspection and Preventative Maintenance and Repair Services to the approximately 560 passageway doors at the Bird Island Treatment Facility and Outlying Stations for a one-year period, with an option to renew four (4) one-year periods, at an annual cost not to exceed $113,500.00; and

WHEREAS: A 24 Hour Door National Inc. has agreed to extend this contract for one (1) additional year under the same terms and conditions for fiscal year 2025-2026; and

WHEREAS: The Superintendent of Mechanical Maintenance and staff recommend this extension at a total cost not to exceed $113,500.00.

WHEREAS: Board approval is required for services over $35,000.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to renew the contract with A 24 Hour Door National Inc. to provide the inspection and preventative maintenance and repair services to the approximately 560 passageway doors at the Bird Island Treatment Facility and Outlying Stations for the period of July 1, 2025 to June 30, 2026, at a total cost not to exceed $113,500.00. Expenses for this contract will be charged to account nos. 00520106-443421 and 00520105-466107.

MOTION TO APPROVE

MADE BY MR. CAULFIELD

2ND BY MR. SOLE

AYES 5 NOES 0

Board Meeting of May 7, 2025

ITEM NO. 16

EXTENSION OF THE CONTRACT FOR OVERHEAD DOOR PREVENTIVE MAINTENANCE & REPAIR SERVICES

WHEREAS: On May 24, 2023, the Board of the Buffalo Sewer Authority awarded a contract to Legacy Overhead & Entry Door Co. LLC, for overhead door preventative maintenance and repair services for the period of July 1, 2023 to June 30, 2024, with an option to renew four (4) one-year periods, at an annual cost not to exceed $49,888.00; and

WHEREAS: On June 26, 2024; the Board authorized the extension of this contract with Legacy Overhead & Entry Door Co. LLC, for one (1) additional year under the same terms and conditions for fiscal year 2024-2025; and

WHEREAS: Legacy Overhead & Entry Door Co. LLC has agreed to extend this contract for one (1) additional year under the same terms and conditions for fiscal year 2025-2026; and

WHEREAS: The Treatment Plant Superintendent, Superintendent of Mechanical Maintenance and staff recommend this extension at a total cost not to exceed $49,888.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to renew the contract with Legacy Overhead & Entry Door Co. LLC for overhead door preventive maintenance and repair services for the period of July 1, 2025 to June 30, 2026, at a total cost not to exceed $49,888.00. These services will be charged to account nos. 00520106-443421 and 00650106-443421.

MOTION TO APPROVE

MADE BY MR. CAULFIELD

2ND BY MR. ROOSEVELT

AYES 5 NOES 0

Board Meeting of May 7, 2025

ITEM NO. 17

EXTENSION OF THE CONTRACT FOR SAFETY PROFESSIONAL SERVICES

WHEREAS: On March 13, 2024, the Board of the Buffalo Sewer Authority awarded a contract to Great Lakes Environmental & Safety Consultants for Safety Professional Services for a four-month period at the conclusion of the July 1, 2023 to June 30, 2024 fiscal year at a total cost not to exceed $65,000.00; and

WHEREAS: On June 26, 2024, the Board authorized the extension of this contract with Great Lakes Environmental & Safety Consultants for $190,000.00, for one (1) additional year under the same terms and conditions for fiscal year 2024-2025; and

WHEREAS: Great Lakes Environmental & Safety Consultants has agreed to extend this contract for one (1) additional year under the same terms and conditions for fiscal year 2025-2026; and

WHEREAS: The Superintendent of Mechanical Maintenance, Treatment Plant Superintendent and staff recommend this extension at a total cost not to exceed $190,000.00.

WHEREAS: Board approval is required for services over $35,000.00

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to renew the contract with Great Lakes Environmental & Safety Consultants for Safety Professional Services for the period of July 1, 2025 to June 30, 2026, at a total cost not to exceed $190,000.00. Expenses for this contract will be charged to account no. 00520106-443200.

MOTION TO APPROVE

MADE BY MR. ROOSEVELT

2ND BY MR. SOLE

AYES 5 NOES 0

Board Meeting of May 7, 2025

ITEM NO. 18

AUTHORIZATION FOR PREVENTATIVE MAINTENANCE FOR HIGH EFFICIENCY TURBO BLOWERS

WHEREAS: On September 29, 2021, the Board of the Buffalo Sewer Authority designated APG-Neuros Corporation, the original equipment manufacturer, and/or their local representative, as a sole source for equipment repairs and supplies for the five (5) High Efficiency Turbo Blowers; and

WHEREAS: In accordance with the standards outlined with the Turbo Blower O&M manual, an Extended Preventative Routine Maintenance plan (EPRM) is necessary to be conducted to prevent unnecessary equipment down time, emergency service and enhance overall reliability; and

WHEREAS: APG-Neuros supplied a quote for EPRM services in the amount of $36,665.00 for the 2024-2025fiscal year; and

WHEREAS: The Superintendent of Mechanical Maintenance and staff reviewed the quote received and recommend the repairs needed at a cost not to exceed $36,665.00; and

WHEREAS: Board approval is required for services over $35,000.00.

NOW THEREFORE
BE IT RESOLVED: The Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to purchase the services needed for maintenance of the High Efficiency Turbo Blowers from APG-Neuros at a total cost of $36,665.00. Account no. 00300106-443301 will be charged for these repairs.

MOTION TO APPROVE

MADE BY MR. SOLE

2ND BY MR. CAULFIELD

AYES 5 NOES 0

Board Meeting of May 7, 2025

ITEM NO. 19

REPORTS ON BIDS RECEIVED PURCHASE OF NEW AND UNUSED MOYNO OR EQUIVALENT REPLACEMENT PARTS

WHEREAS: Formal bids were advertised and solicited for the purchase of various Moyno or equivalent replacement parts needed for the repair and preventative maintenance of thickened sludge pumps; and

WHEREAS: The following bids were received and opened by the Buffalo Sewer Authority Purchase Department on April 23, 2025:

Vendor:	**Total Cost:**
Nova Technologies	No Bid
Siewert Equipment	No Bid
Corrosion Products	$33,860.00
Koester	No Bid

WHEREAS: The Superintendent of Mechanical Maintenance and staff reviewed the quotes received for each item needed and recommend awarding the entire purchase to the only eligible bidder, Corrosion Products, at a total cost not to exceed $33,860.00; and

WHEREAS: Board Approval is required on purchases over $20,000.00

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to purchase the above-mentioned various new and unused Moyno Parts from Corrosion Products, at a total cost of $33,860.00. This purchase will be charged to account no. 00340105-466107.

MOTION TO APPROVE

MADE BY MR. CAULFIELD

2ND BY MR. SOLE

AYES 5 NOES 0

Board Meeting of May 7, 2025

ITEM NO. 20

REPORTS ON BIDS RECEIVED PURCHASE OF NEW AND UNUSED AURORA OR EQUIVALENT REPLACEMENT PARTS

WHEREAS: Formal bids were advertised and solicited for the purchase of various Aurora or equivalent replacement parts needed for the repair and preventative maintenance of pumps at Final Effluent; and

WHEREAS: The following bids were received and opened by the Buffalo Sewer Authority Purchase Department on April 23, 2025:

Vendor:	**Total Cost:**
Rolfe Industries	No Bid
Siewert Equipment	$26,034.00
Corrosion Products	No Bid
Allied Solution Enterprise	No Bid
Koester	$27,822.26

WHEREAS: The Superintendent of Mechanical Maintenance and staff reviewed the quotes received for each item needed and recommend awarding the entire purchase to the lowest eligible bidder, Siewert Equipment, at a total cost not to exceed $26,034.00; and

WHEREAS: Board Approval is required on purchases over $20,000.00

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to purchase the above-mentioned various new and unused Aurora Parts from the lowest eligible bidder, Siewert Equipment, at a total cost of $26,034.00. This purchase will be charged to account no. 00330105-466107.

MOTION TO APPROVE

MADE BY MR. CAULFIELD

2ND BY MR. SOLE

AYES _____ NOES _____

Board Meeting of May 7, 2025

ITEM NO. 21

CERTIFICATE OF ACCEPTANCE AND OCCUPANCY CONTRACT 82000008

PROJECT: Bird Island Transformer Replacement

BID: $2,663,531.00

CONTRACTOR: O'Connell Electric, Inc.
Post Office Box 8000 Dept. 342
Buffalo, NY 14267

WHEREAS: Item no. 25 of the July 31, 2019 Board meeting, the Board of the Buffalo Sewer Authority authorized the General Manager to enter into and execute a contract with O'Connell Electric, Inc., for the Bird Island Transformer Replacements project at a cost not to exceed $2,663,531.00; and

WHEREAS: In Item 11 of the May 26, 2021 Board meeting, the Board of the Buffalo Sewer Authority authorized Change Order #1 in the amount of $24,145.00, making the adjusted contract cost $2,687,676.00; and

WHEREAS: In Item 21 of the April 5, 2023 Board meeting, the Board of the Buffalo Sewer Authority authorized Change Order #2 in the amount of $114,505.25, making the adjusted contract cost $2,802,181.25; and

WHEREAS The Superintendent of Mechanical Maintenance and staff have certified that the contractor completed the work in accordance with the plans and specifications on March 7, 2024; and

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby finds and determines that:

a. The work to be performed under the terms of the Contract has been complete and is accepted;

b. The date of entrance and occupancy be fixed as of June 26, 2024;

c. The final cost of the Contract is $2,802,181.25.

MOTION TO APPROVE

MADE BY MR. CAULFIELD

2ND BY MR. ROOSEVELT

AYES 5 NOES 0

Board Meeting of May 7, 2025

ITEM NO. 22

CHANGE ORDER NO. 1 – CONTRACT NO. 82000071

CONTRACTOR:		
AKRF, Inc.	ORIGINAL CONTRACT COST	$635,894.00
440 Park Avenue South	THIS CHANGE ORDER	$1,628,681.00
New York, NY 10016	ADJUSTED CONTRACT COST	$2,264,575.00

WORK: Smart Sewer & Water Replacement Phase III (Lovejoy District)

DESCRIPTION OF CHANGE OR EXTRA WORK:

Item #1	Smart Sewer & Water Replacement Phase III (Lovejoy District)
Item #2	Buffalo Municipal Housing Authority (BMHA) Package

REASON FOR CHANGE OR EXTRA WORK:

Item #1	The original scope of the Smart Sewer & Water Replacement Phase III (Lovejoy District) has been modified.
Item #2	The consultant will perform professional engineering services for the Green Infrastructure BMHA Package Project under the Environmental Impact Bond Rain Check 2.0 Program.

COST OF CHANGE ORDER NO. 1:

Item #1	($635,894.00)
Item #2	$2,264,575.00

THE TOTAL COST OF CHANGE ORDER NO 1: $1,628,681.00

WHEREAS: In Item No. 23, on July 26, 2023 the Board approved the Authorization to Enter Into An Agreement with AKRF, Inc., For Professional Engineering Services; and

WHEREAS: The Principal Sanitary Engineer and staff have reviewed a request for Change Order No. 1 to Contract No. 82000071 in the amount of $1,628,681.00 as detailed above and recommend its approval.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves Change Order No. 1 to Contract No. 82000071 as written in the above Agenda Item, increasing the contract cost in the amount of $1,628,681.00, making the adjusted contract cost $2,264,575.00. Expenses from this contract will be funded from Account No. 02000573-432004.

MOTION TO TABLE

MADE BY MR. CAULFIELD

2ND BY MR. SOLE

AYES 5 NOES 0

Board Meeting of May 7, 2025

ITEM NO. 23

CHANGE ORDER NO. 1 – CONTRACT NO. 82000080

CONTRACTOR:		
Stantec Consulting Services, Inc.	ORIGINAL CONTRACT COST	$3,270,248.31
1500 Spring Garden Street Suite 1100	THIS CHANGE ORDER	$5,342,040.04
Philadelphia, PA 19130	ADJUSTED CONTRACT COST	$8,612,288.35

WORK: Environmental Impact Bond Support

DESCRIPTION OF CHANGE OR EXTRA WORK:

Item #1	Buffalo Public Schools Package and Right-of-Way Packages 1, 2, 4, 8, and 9
Item #2	Program support services, including environmental review and community engagement

REASON FOR CHANGE OR EXTRA WORK:

Item #1	The consultant will perform professional engineering services for the Green Infrastructure Buffalo Public Schools Package, and Right-of-Way Packages 1, 2, 4, 8, and 9, under the Environmental Impact Bond Rain Check 2.0 Program.
Item #2	The consultant will perform professional engineering services for environmental reviews and will contract with a local community engagement specialist to perform program-wide community outreach.

COST OF CHANGE ORDER NO. 1:

Item #1	$4,874,354.81
Item #2	$ 467,685.23

THE TOTAL COST OF CHANGE ORDER NO 1: $5,342,040.04

WHEREAS:	In Item No. 8, on May 1, 2024 the Board approved the Authorization to Enter Into An Agreement with Stantec Consulting Services, Inc., For Professional Engineering Services;
WHEREAS:	The Principal Sanitary Engineer and staff have reviewed a request for Change Order No. 2 to Contract No. 82000080 in the amount of $5,342,040.04 as detailed above and recommend its approval.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves Change Order No. 1 to Contract No. 82000080 as written in the above Agenda Item, increasing the contract cost in the amount of $5,342,040.04, making the adjusted contract cost $8,612,288.35. Expenses from this contract will be funded from Account No. 02000585-432004.

MOTION TO TABLE

MADE BY MR. ROOSEVELT

2ND BY MS. YOUNG-WATKINS

AYES 5 NOES 0

Board Meeting of May 7, 2025

ITEM NO. 24

CHANGE ORDER NO. 1 – CONTRACT NO. 82000082

CONTRACTOR:		
Wendel WD Architecture, Engineering,		
Surveying & Landscape Architecture P.C	ORIGINAL CONTRACT COST	$289,000.00
375 Essjay Road Suite 200	THIS CHANGE ORDER	$64,650.00
Williamsville, NY 14221	ADJUSTED CONTRACT COST	$353,650.00

WORK: Hennepin Park Green Infrastructure

DESCRIPTION OF CHANGE OR EXTRA WORK:

Item #1	Additional subconsultant coordination and design effort

REASON FOR CHANGE OR EXTRA WORK:

Item #1	Additional meetings, coordination and reporting with the geotechnical subconsultant
Item #2	Additional design effort to incorporate the replacement of the basketball court located in the park and drainage systems for the playground and basketball court, including additional coordination, meetings and reviews with the Department of Public Works Parks Department
Item #3	Additional public outreach meetings

COST OF CHANGE ORDER NO. 1:

Item #1, 2, 3	$64,650.00

THE TOTAL COST OF CHANGE ORDER NO 1: $64,650.00

WHEREAS: In Item No. 31, on June 26, 2024 the Board approved the Authorization to Enter Into An Agreement with Wendel Companies, Inc., For Professional Engineering Services; and

WHEREAS: The Principal Sanitary Engineer and staff have reviewed a request for Change Order No. 1 to Contract No. 82000082 in the amount of $64,650.00 as detailed above and recommend its approval.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves Change Order No. 1 to Contract No. 82000082 as written in the above Agenda Item, increasing the contract cost in the amount of $64,650.00, making the adjusted contract cost $353,650.00. Expenses from this contract will be funded from Account No. 02000587-432004.

MOTION TO TABLE

MADE BY MR. SOLE

2ND BY MR. CAULFIELD

AYES 5 NOES 0

Board Meeting of May 7, 2025

ITEM NO. 25

CHANGE ORDER NO. 1 – CONTRACT NO. 82000069

CONTRACTOR:		
Watts Architecture & Engineering D.P.C.	ORIGINAL CONTRACT COST	$635,379.00
95 Perry Street Suite 300	THIS CHANGE ORDER	$666,423.47
Buffalo, NY 14203	ADJUSTED CONTRACT COST	$1,301,802.47

WORK: Smart Sewer & Water Replacement Phase II (Fillmore District)

DESCRIPTION OF CHANGE OR EXTRA WORK:

Item #1	Smart Sewer & Water Replacement Phase II (Fillmore District)
Item #2	Parks Package 2
Item #3	Parks Package 3
Item #4	Right-of-Way Package 7

REASON FOR CHANGE OR EXTRA WORK:

Item #1	The original scope of the Smart Sewer & Water Replacement Phase II (Fillmore District) has been modified.
Item #2	The consultant will perform professional engineering services for the Green Infrastructure Parks Package 2 Project under the Environmental Impact Bond Rain Check 2.0 Program.
Item #3	The consultant will perform professional engineering services for the Green Infrastructure Parks Package 3 Project under the Environmental Impact Bond Rain Check 2.0 Program.
Item #4	The consultant will perform professional engineering services for the Green Infrastructure Right-of-Way Package 7 Project under the Environmental Impact Bond Rain Check 2.0 Program.

COST OF CHANGE ORDER NO. 1:

Item #1	($625,581.53)
Item #2	$301,400.00
Item #3	$625,350.00
Item #4	$365,255.00

THE TOTAL COST OF CHANGE ORDER NO 1: $666,423.47

WHEREAS: In Item No. 22, on July 26, 2023 the Board approved the Authorization to Enter Into An Agreement with Watts Architecture & Engineering D.P.C., For Professional Engineering Services; and

WHEREAS: The Principal Sanitary Engineer and staff have reviewed a request for Change Order No. 1 to Contract No. 82000096 in the amount of $666,423.47 as detailed above and recommend its approval.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves Change Order No. 1 to Contract No. 82000096 as written in the above Agenda Item, increasing the contract cost in the amount of $666,423.47, making the adjusted contract cost $1,301,802.47. Expenses from this contract will be funded from Account No. 02000572-432004.

MOTION TO TABLE

MADE BY MR. SOLE

2ND BY MR. CAULFIELD

AYES 5 NOES 0

Board Meeting of May 7, 2025

ITEM NO. 26

ADOPTION OF NEGATIVE DECLARATION OF STATE ENVIRONMENTAL QUALITY REVIEW FOR THE BRECKENRIDGE COMBINED SEWER OVERFLOW (CSO) CONTROL PROJECT

WHEREAS: The Buffalo Sewer Authority (the "Authority") was created by New York Public Authorities Law (the "Public Authorities Law") Section 1177 (the "Authority Act") and is authorized and empowered by the Public Authorities Law Article 5, Title 8 to provide for the jurisdiction, control, possession, supervision and use of the "facilities", as defined in Section 1176(10) of the Authority Act, including but not limited to the sewage treatment plant, storm water and sewage collection system constituting the sewer system that serves the City of Buffalo and neighboring communities (the "Sewer System"); and

WHEREAS: Pursuant to Section 1179 of the Authority Act, the City of Buffalo (the "City") assigned, transferred and dedicated to the Authority the jurisdiction, control, supervision, possession and use of the Sewer System; and

WHEREAS: In accordance with Article 8 (State Environmental Quality Review Act a/k/a "SEQRA") of the Environmental Conservation Law (the "Act"), and the statewide regulations under the Act (6 NYCRR Part 617) (the "Regulations"), the Authority has considered the proposed construction and implementation of the Breckenridge Combined Sewer Overflow (CSO) Project which is designed to address and abate combined sewer overflows to area waterways which occur during wet weather, typically rain and/or snow melt events (the "Action"); and

WHEREAS: This project will serve to protect the environment, water quality and the public health, safety and welfare by reducing discharges of pollutants from combined sewer overflows which would otherwise occur without construction and implementation of this project; and

WHEREAS: On August 9, 2024, the Authority determined that it would serve as Lead Agency pursuant to SEQRA and engage in a coordinated review process, and a notice of such Lead Agency designation and coordinated review process was mailed to various involved and interested agencies on August 9, 2024; and

WHEREAS: The Authority, through its appropriate officers has identified and contacted all potentially involved and interested agencies in the Action (the "Agencies"), and all of the identified potentially Involved Agencies, as defined in the SEQRA Regulations, have consented or not objected to the Authority's proposal to be Lead Agency for the Action; and

WHEREAS: The Authority, as Lead Agency, in making a Determination of Significance with respect to the Action, has considered the Action as a "Type 1 Action" pursuant to the Regulations, has examined the completed Full Environmental Assessment Form and has reviewed and discussed

each and every criteria for determining significance set out in Part 617.7 of the SEQRA Regulations.

WHEREAS: On December 4, 2024, the Authority adopted a Negative Declaration for the Breckenridge CSO Project, determining that the Action would not result in any significant adverse environmental impacts; and

WHEREAS: Due to recent design modifications to the recommended project alternative, the Authority has amended the SEQR Part 1 (Attachment A-1) to update the project description, and has reviewed and updated SEQR Part 3 (Attachment A-3) to reflect the revised project scope, and has determined that the existing SEQR Part 2 (Attachment A-2) does not require any modifications; and

WHEREAS: The Authority has determined that the revised project does not result in any new or increased environmental impacts and that the original conclusion of no significant adverse impacts remains valid;

NOW THEREFORE BE IT RESOLVED: Based upon a consideration of the Action, an examination of the completed Full Environmental Assessment Forms, a review and discussion of each and every criteria for making a Determination of Significance set out in Part 617.7 of the SEQRA Regulations, and such further investigation of the Action and its environmental effects, if any, as the BSA has deemed appropriate, the BSA makes the following findings with respect to the Action:

a) No potentially large impacts on the environment from the Action are identified in the Environmental Assessment Form.
b) The Action is not expected to trigger any significant adverse impacts, including those examples of impacts listed in Part 617.7 of the SEQRA Regulations.

BE IT FURTHER RESOLVED:

Based upon the foregoing investigation of the potential environmental impacts of the Action and considering both the magnitude and importance of each potential environmental impact, as more particularly stated in the attached Environmental Assessment Form and Negative Declaration attached hereto and made a part hereof, the BSA makes the following determinations:

a) The Action will not have a significant adverse impact on the environment and an environmental impact statement will not be prepared with respect to the Action; and
b) The Authority hereby authorizes and directs the Principal Sanitary Engineer and Executive Secretary Manager, and its appropriate officers to execute and deliver a Notice of Determination of Non-Significance ("Negative Declaration"), in form and substance as attached hereto and made a part hereof, and to file such Notice, in accordance with the requirements of the SEQRA Regulations, and to take such other actions, upon the advice of legal counsel, in furtherance of this resolution as may be necessary or appropriate.

MOTION TO APPROVE

MADE BY MR. SOLE

2ND BY MR. CAULFIELD

AYES 5 NOES 0

Board Meeting of May 7, 2025

ITEM NO.27

ADOPTION OF NEGATIVE DECLARATION OF STATE ENVIRONMENTAL QUALITY REVIEW FOR CSO-053_5.2 EDISON MARTHA OFFLINE SEWER STORAGE TANK

WHEREAS: The Buffalo Sewer Authority (the "Authority") was created by New York Public Authorities Law (the "Public Authorities Law") Section 1177 (the "Authority Act") and is authorized and empowered by the Public Authorities Law Article 5, Title 8 to provide for the jurisdiction, control, possession, supervision and use of the "facilities", as defined in Section 1176(10) of the Authority Act, including but not limited to the sewage treatment plant, storm water and sewage collection system constituting the sewer system that serves the City of Buffalo and neighboring communities (the "Sewer System"); and

WHEREAS: Pursuant to Section 1179 of the Authority Act, the City of Buffalo (the "City") assigned, transferred and dedicated to the Authority the jurisdiction, control, supervision, possession and use of the Sewer System; and

WHEREAS: In accordance with Article 8 (State Environmental Quality Review Act a/k/a "SEQRA") of the Environmental Conservation Law (the "Act"), and the statewide regulations under the Act (6 NYCRR Part 617) (the "Regulations"), the Authority has considered the proposed construction and implementation of the Edison Martha Offline Storage (OLS) Tank CSO053_5.2 Project which is designed to address and abate combined sewer overflows to area waterways which occur during wet weather, typically rain and/or snow melt events (the "Action"); and

WHEREAS: This project will serve to protect the environment, water quality and the public health, safety and welfare by reducing discharges of pollutants from combined sewer overflows which would otherwise occur without construction and implementation of this project; and

WHEREAS: On January 8, 2025, the Authority determined that it would serve as Lead Agency pursuant to SEQRA and engage in a coordinated review process, and a notice of such Lead Agency designation and coordinated review process was mailed to various involved and interested agencies on January 29, 2025; and

WHEREAS: The Authority, through its appropriate officers has identified and contacted all potentially involved and interested agencies in the Action (the "Agencies"), and all of the identified potentially Involved Agencies, as defined in the SEQRA Regulations, have consented or not objected to the Authority's proposal to be Lead Agency for the Action; and

WHEREAS: The Authority, as Lead Agency, in making a Determination of Significance with respect to the Action, has considered the Action as a

"Type 1 Action" pursuant to the Regulations, has examined the completed Full Environmental Assessment Form and has reviewed and discussed each and every criteria for determining significance set out in Part 617.7 of the SEQRA Regulations.

NOW THEREFORE BE IT RESOLVED:

Based upon a consideration of the Action, an examination of the completed Full Environmental Assessment Forms, a review and discussion of each and every criteria for making a Determination of Significance set out in Part 617.7 of the SEQRA Regulations, and such further investigation of the Action and its environmental effects (Attachments C1-C3), if any, as the Authority has deemed appropriate, the Authority makes the following findings with respect to the Action:

a) No potentially large impacts on the environment from the Action are identified in the Environmental Assessment Form.
b) The Action is not expected to trigger any significant adverse impacts, including those examples of impacts listed in Part 617.7 of the SEQRA Regulations.

BE IT FURTHER RESOLVED:

Based upon the foregoing investigation of the potential environmental impacts of the Action and considering both the magnitude and importance of each potential environmental impact, as more particularly stated in the attached Environmental Assessment Form and Negative Declaration attached hereto and made a part hereof, the BSA makes the following determinations:

a) The Action will not have a significant adverse impact on the environment and an environmental impact statement will not be prepared with respect to the Action; and
b) The Authority hereby authorizes and directs the Principal Sanitary Engineer and Executive Secretary to execute and deliver a Notice of Determination of Non-Significance ("Negative Declaration"), in form and substance as attached hereto and made a part hereof, and to file such Notice, in accordance with the requirements of the SEQRA Regulations, and to take such other actions, upon the advice of legal counsel, in furtherance of this resolution as may be necessary or appropriate.

MOTION TO APPROVE

MADE BY MS. YOUNG-WATKINS

2ND BY MR. CAULFIELD

AYES 5 NOES 0

Board Meeting of May 7, 2025

ITEM NO. 28

ADOPTION OF NEGATIVE DECLARATION OF STATE ENVIRONMENTAL QUALITY REVIEW FOR CSO-053_1.4 SIDNEY AND LARK REAL TIME CONTROL (RTC)

WHEREAS: The Buffalo Sewer Authority (the "Authority") was created by New York Public Authorities Law (the "Public Authorities Law") Section 1177 (the "Authority Act") and is authorized and empowered by the Public Authorities Law Article 5, Title 8 to provide for the jurisdiction, control, possession, supervision and use of the "facilities", as defined in Section 1176(10) of the Authority Act, including but not limited to the sewage treatment plant, storm water and sewage collection system constituting the sewer system that serves the City of Buffalo and neighboring communities (the "Sewer System"); and

WHEREAS: Pursuant to Section 1179 of the Authority Act, the City of Buffalo (the "City") assigned, transferred and dedicated to the Authority the jurisdiction, control, supervision, possession and use of the Sewer System; and

WHEREAS: In accordance with Article 8 (State Environmental Quality Review Act a/k/a "SEQRA") of the Environmental Conservation Law (the "Act"), and the statewide regulations under the Act (6 NYCRR Part 617) (the "Regulations"), the Authority has considered the proposed construction and implementation of the Sidney and Lark Real Time Control (RTC) CSO053_1.4 Project which is designed to address and abate combined sewer overflows to area waterways which occur during wet weather, typically rain and/or snow melt events (the "Action"); and

WHEREAS: This project will serve to protect the environment, water quality and the public health, safety and welfare by reducing discharges of pollutants from combined sewer overflows which would otherwise occur without construction and implementation of this project; and

WHEREAS: On March 12, 2025, the Authority determined that it would serve as Lead Agency pursuant to SEQRA and engage in a coordinated review process, and a notice of such Lead Agency designation and coordinated review process was mailed to various involved and interested agencies on March 17, 2025; and

WHEREAS: The Authority, through its appropriate officers has identified and contacted all potentially involved and interested agencies in the Action (the "Agencies"), and all of the identified potentially Involved Agencies, as defined in the SEQRA Regulations, have consented or not objected to the Authority's proposal to be Lead Agency for the Action; and

WHEREAS: The Authority, as Lead Agency, in making a Determination of Significance with respect to the Action, has considered the Action as a

"Type 1 Action" pursuant to the Regulations, has examined the completed Full Environmental Assessment Form and has reviewed and discussed each and every criteria for determining significance set out in Part 617.7 of the SEQRA Regulations.

NOW THEREFORE BE IT RESOLVED: Based upon a consideration of the Action, an examination of the completed Full Environmental Assessment Forms, a review and discussion of each and every criteria for making a Determination of Significance set out in Part 617.7 of the SEQRA Regulations, and such further investigation of the Action and its environmental effects (Attachments B1-B3), if any, as the Authority has deemed appropriate, the Authority makes the following findings with respect to the Action:

a) No potentially large impacts on the environment from the Action are identified in the Environmental Assessment Form.
b) The Action is not expected to trigger any significant adverse impacts, including those examples of impacts listed in Part 617.7 of the SEQRA Regulations.

BE IT FURTHER RESOLVED: Based upon the foregoing investigation of the potential environmental impacts of the Action and considering both the magnitude and importance of each potential environmental impact, as more particularly stated in the attached Environmental Assessment Form and Negative Declaration attached hereto and made a part hereof, the BSA makes the following determinations:

a) The Action will not have a significant adverse impact on the environment and an environmental impact statement will not be prepared with respect to the Action; and
b) The Authority hereby authorizes and directs the Principal Sanitary Engineer and Executive Secretary to execute and deliver a Notice of Determination of Non-Significance ("Negative Declaration"), in form and substance as attached hereto and made a part hereof, and to file such Notice, in accordance with the requirements of the SEQRA Regulations, and to take such other actions, upon the advice of legal counsel, in furtherance of this resolution as may be necessary or appropriate.

MOTION TO APPROVE

MADE BY MR. SOLE

2ND BY MR. CAULFIELD

AYES 5 NOES 0

Board Meeting of May 7, 2025

ITEM NO. 29

AUTHORIZATION TO ENTER INTO AN AGREEMENT WITH WENDEL COMPANIES, INC., FOR PROFESSIONAL ENGINEERING SERVICES

WHEREAS: The Buffalo Sewer Authority issued a request for qualifications (RFQ) for the purposes of prequalifying various firms for delivery of green infrastructure capital improvement projects and approved these entities on September 30, 2020; and

WHEREAS: Wendel Companies, Inc., submitted a proposal for delivery of professional engineering services in support of the Green Infrastructure Right-of-Way Package 3, Right-of-Way Package 5 and Right-of-Way Package 6 Projects under the Environmental Impact Bond Rain Check 2.0 Program; and

WHEREAS: Based upon the review of the Principal Sanitary Engineer and staff, it is recommended to proceed with the proposal and scope of work for professional services at an agreed upon cost not to exceed $1,691,250.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to execute an agreement with Wendel Companies, Inc. to provide professional engineering services at a cost not to exceed $1,691,250.00. The cost of this contract will be funded from account no. 02000595-432004.

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MOTION TO TABLE

MADE BY MR. CAULFIELD

2ND BY MR. ROOSEVELT

AYES 5 NOES 0

Board Meeting of May 7, 2025

ITEM NO. 30

ADJOURNMENT OF MEETING

MOTION TO ADJORN

MADE BY MR. CAULFIELD

2ND BY MS. YOUNG-WATKINS

AYES 5 NOES 0

Board Meeting of May 7, 2025

BUFFALO
SEWER AUTHORITY

ATTACHMENT B

Package 3 Summary Map

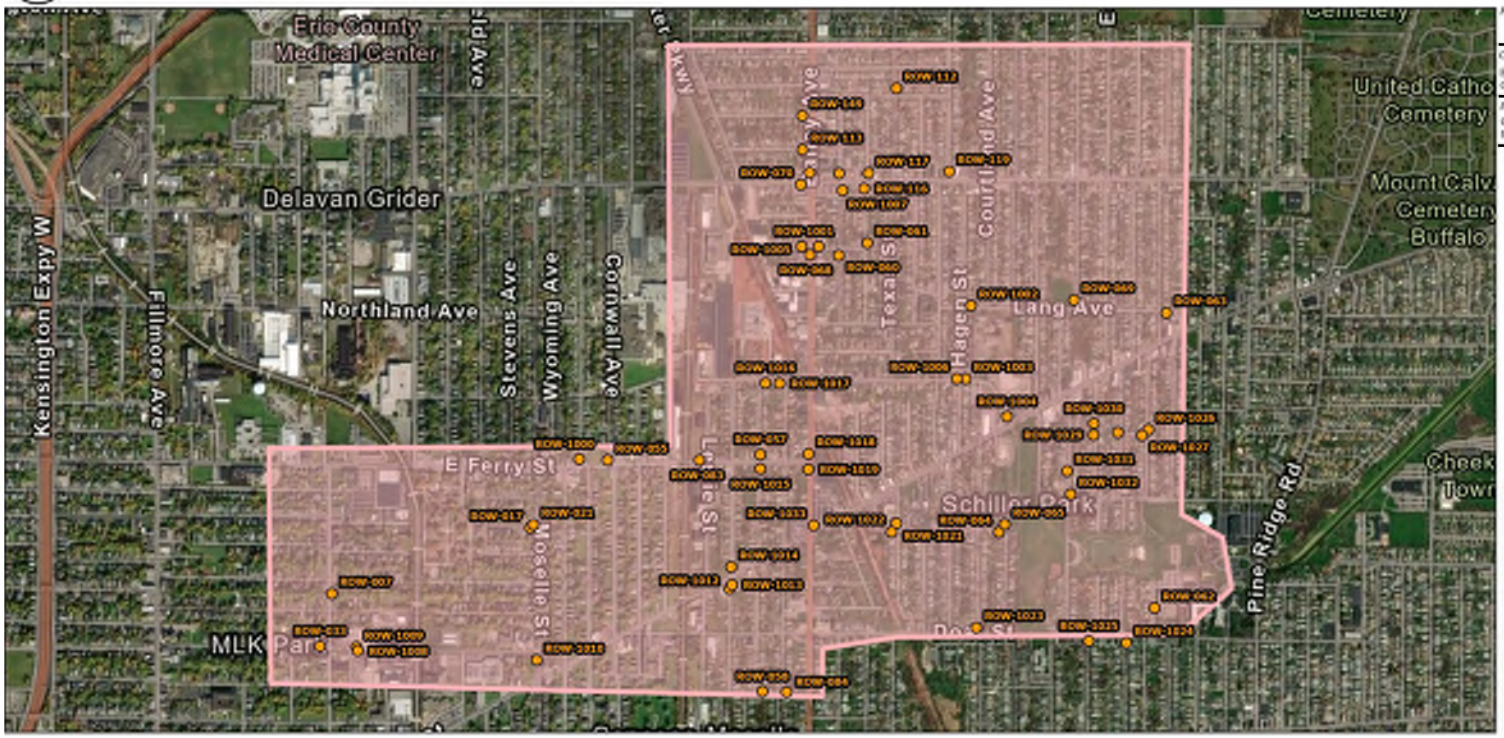

Figure No. 1

BUFFALO SEWER AUTHORITY | Stantec

Client/Project: Buffalo Sewer Authority, Green Stormwater Infrastructure Projects — 195113553

Project Location: City of Buffalo, New York

Prepared by Stantec on 2/20/2025

Legend

- GSI Footprint
- Package 3

Notes

1. Coordinate System: ESRI PE String PROJCS NAD 1983 StatePlane New York West FIPS 3103 Feet GEOGCS G
2. Data Sources: Reference data provided by Buffalo Sewer Authority
3. Background: Esri Hybrid Aerial Imagery

1": 2,000 Feet

ID	Location	System Type	Impervious Area Managed (SF)
ROW-007	174 French St	Stormwater tree trench	19,550
ROW-017	324 Moselle St	Stormwater tree trench	19,800
ROW-021	332 Moselle St	Stormwater tree trench	14,850
ROW-033	144 Urban St	Stormwater tree trench	17,550
ROW-055	1140 E Ferry St	Stormwater tree trench	6,250
ROW-057	1308 E Ferry St	Stormwater tree trench	6,900
ROW-058	131 Goembel Ave	Stormwater tree trench	13,850
ROW-060	121 Wecker St	Stormwater tree trench	11,400
ROW-061	150 Wecker St	Stormwater tree trench	8,950
ROW-062	21 Persia St	Stormwater tree trench	11,900
ROW-063	25 Erb St	Stormwater tree trench	12,150
ROW-064	100 Sattler Ave	Stormwater tree trench	14,450
ROW-065	112 Sattler Ave	Stormwater tree trench	5,400
ROW-068	2426 Bailey Ave	Stormwater tree trench	9,950
ROW-069	38 Weber Ave	Stormwater tree trench	15,850
ROW-070	2474 Bailey Ave	Stormwater tree trench	10,800
ROW-083	1234 E Ferry St	Stormwater tree trench	10,450
ROW-084	123 Burgard Pl	Stormwater tree trench	11,950
ROW-1000	1110 E Ferry St	Stormwater tree trench	8,450
ROW-1001	2435 Bailey Ave	Stormwater tree trench	8,300

ID	Location	System Type	Impervious Area Managed (SF)
ROW-1002	153 Hagen St	Stormwater tree trench	12,000
ROW-1003	77 Hagen St	Stormwater tree trench	10,050
ROW-1004	2078 Genesee St	Stormwater tree trench	8,500
ROW-1005	2426 Bailey Ave	Stormwater tree trench	9,150
ROW-1006	78 Hagen St	Stormwater tree trench	9,750
ROW-1007	1187 E Delavan Ave	Stormwater tree trench	16,600
ROW-1008	201 Urban St	Stormwater tree trench	9,000
ROW-1009	220 Urban St	Stormwater tree trench	8,600
ROW-1010	204 Moselle St	Stormwater tree trench	6,050
ROW-1012	1733 Genesee St	Stormwater tree trench	10,000
ROW-1013	387 May St	Stormwater tree trench	6,350
ROW-1014	1744 Genesee St	Stormwater tree trench	7,950
ROW-1015	1307 E Ferry St	Stormwater tree trench	6,150
ROW-1016	181 Zenner St	Stormwater tree trench	10,200
ROW-1017	164 Wende St	Stormwater tree trench	12,300
ROW-1018	2216 Bailey Ave	Stormwater tree trench	7,000
ROW-1019	2206 Bailey Ave	Stormwater tree trench	6,350
ROW-1021	122 Forman St	Stormwater tree trench	9,250
ROW-1022	110 Forman St	Stormwater tree trench	8,750
ROW-1023	376 Doat St	Stormwater tree trench	6,450

ID	Location	System Type	Impervious Area Managed (SF)
ROW-1024	525 Doat St	Stormwater tree trench	18,250
ROW-1025	485 Doat St	Stormwater tree trench	7,800
ROW-1026	71 Eller Ave	Stormwater tree trench	6,450
ROW-1027	62 Eller Ave	Stormwater tree trench	13,600
ROW-1028	68 Domedion Ave	Stormwater tree trench	10,500
ROW-1029	66 Crossman Ave	Stormwater tree trench	8,200
ROW-1030	76 Crossman Ave	Stormwater tree trench	8,250
ROW-1031	168 Sprenger Ave	Stormwater tree trench	12,150
ROW-1032	141 Sprenger Ave	Stormwater tree trench	6,750
ROW-1033	2151 Bailey Ave	Stormwater tree trench	5,550
ROW-112	92 Gerald Ave	Stormwater tree trench	15,150
ROW-113	2528 Bailey Ave	Stormwater tree trench	16,850
ROW-114	2502 Bailey Ave	Stormwater tree trench	10,850
ROW-115	1190 E Delavan Ave	Stormwater tree trench	7,350
ROW-116	1219 E Delavan Ave	Stormwater tree trench	12,900
ROW-117	1230 E Delavan Ave	Stormwater tree trench	9,450
ROW-119	1314 E Delavan Ave	Stormwater tree trench	20,150
ROW-149	2564 Bailey Ave	Stormwater tree trench	11,500

ID	Impervious Area Managed (SF)	
Totals	620,900	(14.25 acres)

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Package 5 Summary Map

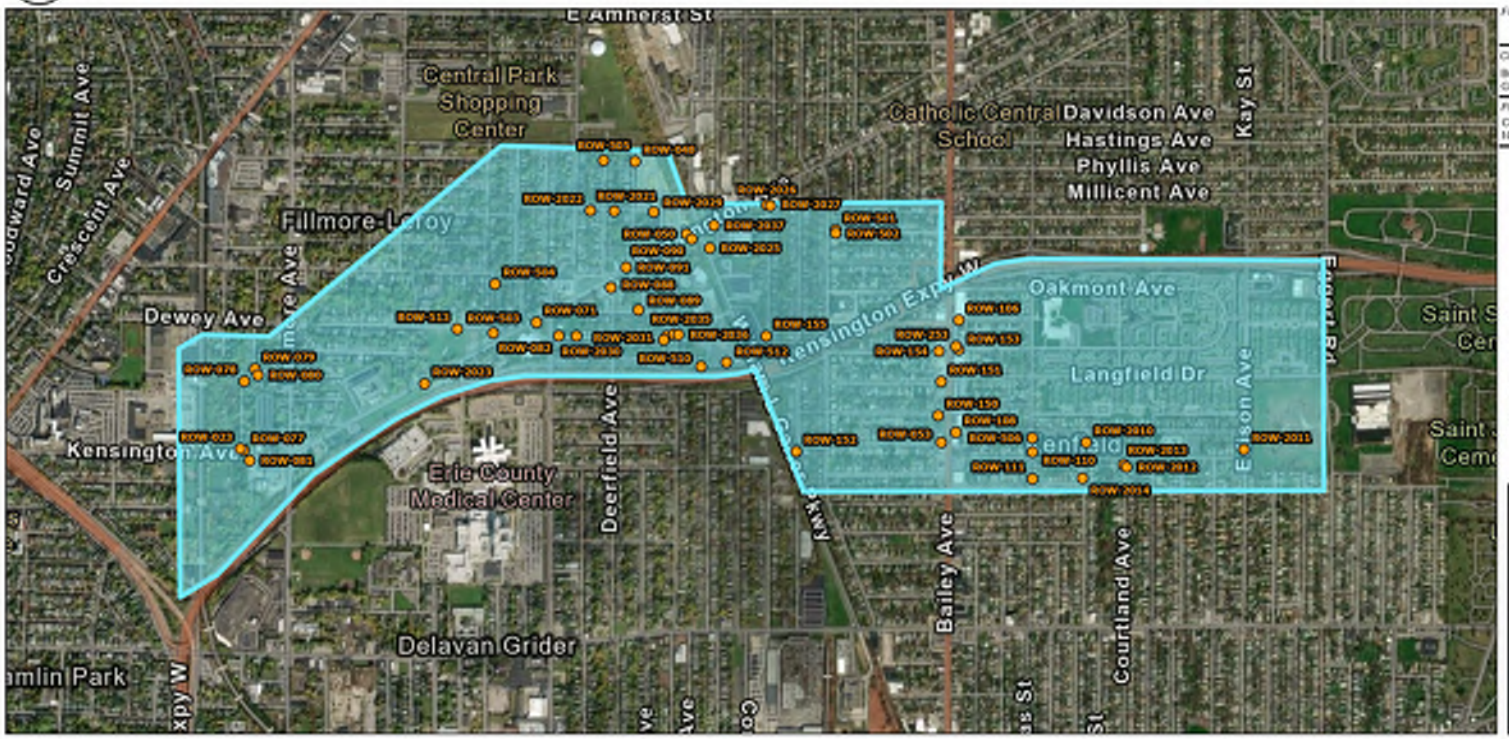

Figure No. 1

BUFFALO SEWER AUTHORITY | Stantec

Client/Project: Buffalo Sewer Authority — Green Stormwater Infrastructure Projects

195113553

Project Location: City of Buffalo, New York

Prepared by Stantec on 2/21/2025

Legend

- GSI Footprint
- Package 5

Notes

1. Coordinate System: ESRI PE String PROJCS NAD 1983 StatePlane New York West FIPS 3103 Feet GEOGCS G
2. Data Sources: Reference data provided by Buffalo Sewer Authority
3. Background: Esri Hybrid Aerial Imagery

1": 2,000 Feet

ID	Location	System Type	Impervious Area Managed (SF)
ROW-023	17 Pauline St	Stormwater tree trench	7,800
ROW-048	51 Federal Ave	Stormwater tree trench	19,100
ROW-050	430 Kensington Ave	Stormwater tree trench	15,350
ROW-053	2700 Bailey Ave	Stormwater tree trench	7,200
ROW-071	665 Kensington Ave	Stormwater tree trench	19,400
ROW-077	276 Kensington Ave	Stormwater tree trench	7,450
ROW-078	21 Gesl St	Stormwater tree trench	6,300
ROW-079	20 Gesl St	Stormwater tree trench	12,000
ROW-080	38 Gesl St	Stormwater tree trench	6,600
ROW-081	1040 Fillmore Ave	Stormwater tree trench	10,000
ROW-082	901 Saile St	Stormwater tree trench	13,400
ROW-088	701 Kensington Ave	Stormwater tree trench	6,500
ROW-089	2 Palus Pl	Stormwater tree trench	6,650
ROW-090	865 Kensington Ave	Stormwater tree trench	19,200
ROW-091	728 Kensington Ave	Stormwater tree trench	12,050
ROW-106	2801 Bailey Ave	Stormwater tree trench	10,600
ROW-109	2645 Bailey Ave	Stormwater tree trench	7,000
ROW-110	92 Easton Ave	Stormwater tree trench	10,300
ROW-111	90 Proctor Ave	Stormwater tree trench	10,900
ROW-150	2716 Bailey Ave	Stormwater tree trench	16,850

ID	Location	System Type	Impervious Area Managed (SF)
ROW-151	2756 Bailey Ave	Stormwater tree trench	8,650
ROW-152	474 Norfolk Ave	Stormwater tree trench	13,650
ROW-153	2777 Bailey Ave	Stormwater tree trench	13,900
ROW-154	2788 Bailey Ave	Stormwater tree trench	9,000
ROW-155	601 Northumberland Ave	Stormwater tree trench	20,800
ROW-2010	149 Weston Ave	Stormwater tree trench	23,500
ROW-2011	352 Easton Ave	Stormwater tree trench	8,900
ROW-2012	195 Easton Ave	Stormwater tree trench	5,450
ROW-2013	183 Easton Ave	Stormwater tree trench	2,100
ROW-2014	149 Proctor Ave	Stormwater tree trench	9,650
ROW-2021	63 Monteith Ave	Stormwater tree trench	15,100
ROW-2022	64 Monteith Ave	Stormwater tree trench	14,600
ROW-2023	497 Kensington Ave	Stormwater tree trench	22,150
ROW-2024	609 Wyoming Ave	Stormwater tree trench	8,000
ROW-2025	William E Gaiter Pkwy	Stormwater tree trench	6,250
ROW-2026	724 Northumberland Ave	Stormwater tree trench	6,900
ROW-2027	725 Northumberland Ave	Stormwater tree trench	6,950
ROW-2029	51 Federal Ave	Stormwater tree trench	5,200
ROW-2030	667 Kensington Ave	Stormwater tree trench	12,700
ROW-2031	590 Wyoming Ave	Stormwater tree trench	8,600

ID	Location	System Type	Impervious Area Managed (SF)
ROW-2035	604 Wyoming Ave	Stormwater tree trench	6,600
ROW-2036	599 Wyoming Ave	Stormwater tree trench	11,600
ROW-2037	695 Kensington Ave	Stormwater tree trench	13,550
ROW-253	2793 Bailey Ave	Stormwater tree trench	7,950
ROW-501	427 Olympic Ave	Stormwater tree trench	5,550
ROW-502	417 Olympic Ave	Stormwater tree trench	4,800
ROW-503	15 Castle Pl	Stormwater tree trench	10,950
ROW-504	373 Leroy Ave	Stormwater tree trench	10,750
ROW-505	116 Montclair Ave	Stormwater tree trench	5,900
ROW-506	95 Suffolk St	Stormwater tree trench	3,700
ROW-510	156 Warwick Ave	Stormwater tree trench	9,250
ROW-512	186 Warwick Ave	Stormwater tree trench	8,900
ROW-513	386 Dewey Ave	Stormwater tree trench	16,150

ID	Impervious Area Managed (SF)
totals	565,350 (12.98 acres)

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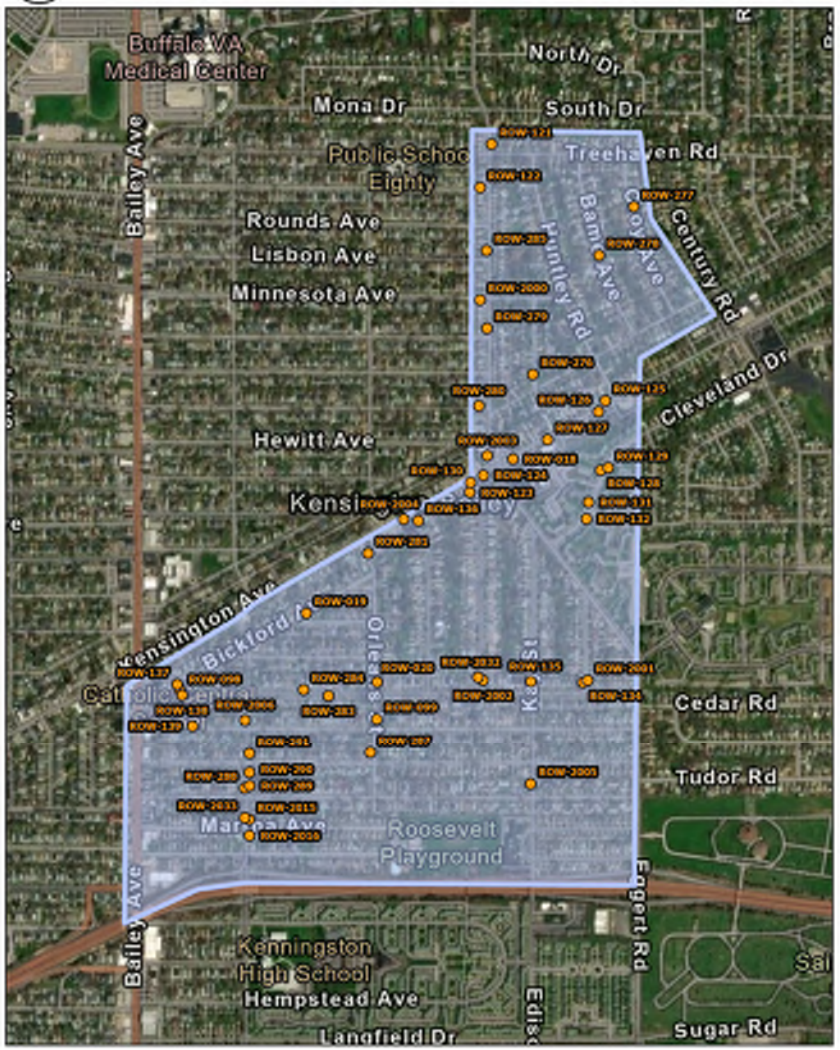
Package 6 Summary Map



ID	Location	System Type	Impervious Area Managed (SF)
ROW-018	1431 Kensington Ave	Stormwater planter	11,100
ROW-019	12 Alice Ave	Stormwater tree trench	20,200
ROW-020	190 Davidson Ave	Stormwater tree trench	13,650
ROW-098	40 Davidson Ave	Stormwater tree trench	17,550
ROW-099	180 Hastings Ave	Stormwater tree trench	6,600
ROW-121	2 Treehaven Rd	Stormwater tree trench	16,600
ROW-122	730 Eggert Rd	Stormwater tree trench	6,850
ROW-123	1405 Kensington Ave	Stormwater tree trench	9,000
ROW-124	1421 Kensington Ave	Stormwater planter	6,950
ROW-125	1524 Kensington Ave	Stormwater tree trench	12,500
ROW-126	1515 Kensington Ave	Stormwater tree trench	14,100
ROW-127	1479 Kensington Ave	Stormwater planter	12,150
ROW-128	56 W Cleveland Dr	Stormwater tree trench	11,600
ROW-129	61 W Cleveland Dr	Stormwater tree trench	7,450
ROW-130	1405 Kensington Ave	Stormwater tree trench	5,550
ROW-131	26 W Cleveland Dr	Stormwater tree trench	12,700
ROW-132	17 W Cleveland Dr	Stormwater tree trench	16,100
ROW-134	342 Davidson Ave	Stormwater tree trench	6,850
ROW-135	300 Davidson Ave	Stormwater tree trench	6,150
ROW-136	1363 Kensington Ave	Stormwater tree trench	9,100
ROW-137	18 Bickford Ave	Stormwater tree trench	9,200
ROW-138	21 Davidson Ave	Stormwater planter	10,150
ROW-139	24 Hastings Ave	Stormwater planter	10,150
ROW-2000	638 Eggert Rd	Stormwater tree trench	13,900

ID	Location	System Type	Impervious Area Managed (SF)
ROW-2001	352 Davidson Ave	Stormwater tree trench	14,150
ROW-2002	270 Davidson Ave	Stormwater tree trench	16,650
ROW-2003	1426 Kensington Ave	Stormwater tree trench	7,250
ROW-2004	188 Godfrey St	Stormwater tree trench	9,300
ROW-2005	30 Kay St	Stormwater tree trench	13,250
ROW-2006	509 Suffolk St	Stormwater tree trench	9,700
ROW-2015	90 Martha Ave	Stormwater tree trench	6,700
ROW-2016	403 Suffolk St	Stormwater tree trench	6,600
ROW-2032	260 Davidson Ave	Stormwater tree trench	6,500
ROW-2033	80 Martha Ave	Stormwater tree trench	15,500
ROW-276	2 Woodley Rd	Stormwater tree trench	25,600
ROW-277	87 Croy Ave	Stormwater tree trench	10,350
ROW-278	67 Bame Ave	Stormwater tree trench	8,400
ROW-279	616 Eggert Rd	Stormwater tree trench	6,350
ROW-280	560 Eggert Rd	Stormwater tree trench	5,250
ROW-281	1313 Kensington Ave	Stormwater tree trench	25,900
ROW-283	145 Davidson Ave	Stormwater tree trench	8,750
ROW-284	128 Davidson Ave	Stormwater tree trench	12,000
ROW-285	678 Eggert Rd	Stormwater tree trench	4,900
ROW-287	178 Phyllis Ave	Stormwater tree trench	10,500
ROW-288	80 Millicent Ave	Stormwater tree trench	7,850
ROW-289	88 Millicent Ave	Stormwater tree trench	7,750
ROW-290	87 Phyllis Ave	Stormwater tree trench	18,500
ROW-291	88 Phyllis Ave	Stormwater tree trench	8,600

	Impervious Area Managed (SF)	
Totals	532,450	(12.55 acres)

Legend

- GSI Footprint
- Package 6

Notes

1. Coordinate System: ESRI PE String PROJCS NAD 1983 StatePlane New York West FIPS 3103 Feet GEOGCS G
2. Data Sources: Reference data provided by Buffalo Sewer Authority
3. Background: Esri Hybrid Aerial Imagery

Figure No.
1

BUFFALO SEWER AUTHORITY Stantec

Client/Project
Buffalo Sewer Authority
Green Stormwater Infrastructure Projects

195113553

Project Location
City of Buffalo
New York

Prepared by Stantec on: 2/20/2025

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BUFFALO
SEWER AUTHORITY

ATTACHMENT C

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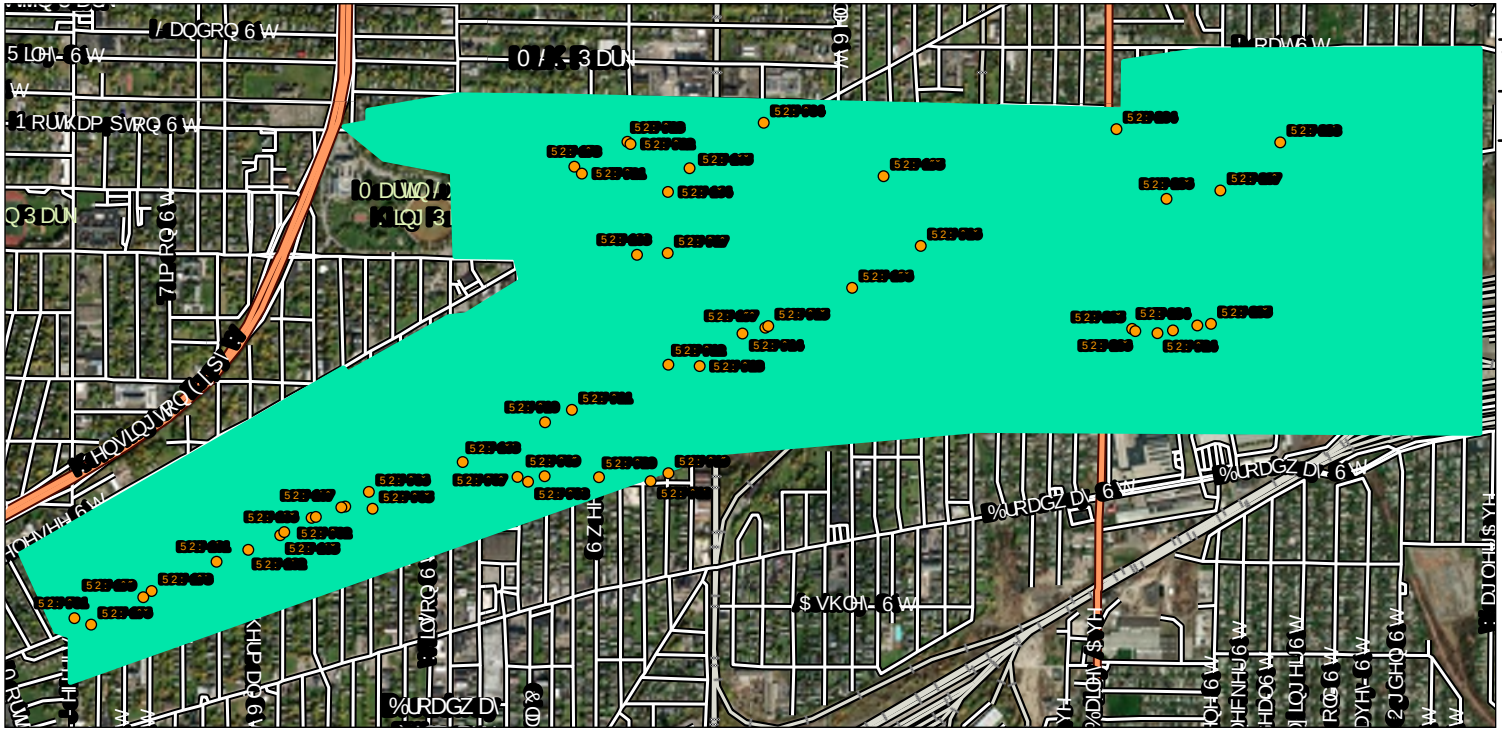

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BUFFALO Stantec

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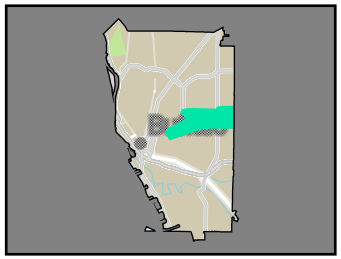

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,'	/RFDWLRQ	6\VWHP 7\SH	,PSHUYLRXV $UHD 0DQDJHG 6)
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52: ˇˇ	ˇ *HQHVHH 6W	%XPS RXW	
52: ˇˇ	ˆˆˇ 6\FDPRUH 6W	6WRUPZDWHU WUHH WUHQFH	
52: ˇˇ	˜ ˆ)LOOPRUH $YH	6WRUPZDWHU WUHH WUHQFH	
52: ˆ	%DUGRO 6W	6WRUPZDWHU WUHH WUHQFH	
52: ˇˇ	ˇ 0DGLVRQ 6W	6WRUPZDWHU WUHH WUHQFH	
52: ˇˇ	ˇˇ 6\FDPRUH 6W	%XPS RXW	
52: ˇˇ	ˇ ˇ 6\FDPRUH 6W	6WRUPZDWHU WUHH WUHQFH	
52: ˆ	ˇ 6\FDPRUH 6W	6WRUPZDWHU WUHH WUHQFH	
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52: ˆ	ˇˇˇ 6\FDPRUH 6W	6WRUPZDWHU WUHH WUHQFH	
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52: ˆˇ	ˆˆ 6\FDPRUH 6W	6WRUPZDWHU WUHH WUHQFH	
52: ˆˆ	:DOGHQ $YH	6WRUPZDWHU WUHH WUHQFH	
52: ˇˇ	ˇˇ *RRGHDU $YH	6WRUPZDWHU WUHH WUHQFH EXPS RXW	
52: ˇˇ	ˇ 6\FDPRUH 6W	6WRUPZDWHU WUHH WUHQFH EXPS RXW	
52: ˇˇ	6\FDPRUH 6W	6WRUPZDWHU WUHH WUHQFH EXPS RXW	
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52: ˇ	%ULQNPDQ $YH	6WRUPZDWHU WUHH WUHQFH	

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52: ˇ	:RRG $YH	6WRUPZDWHU WUHH WUHQFH	
52: ˇ	ˇˇ :DOGHQ $YH	6WRUPZDWHU WUHH WUHQFH	
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52: ˆ	ˆ)RXUHQG 6W	6WRUPZDWHU WUHH WUHQFH	
52: ˆˇ	ˇˇ 5HHG 6W	6WRUPZDWHU WUHH WUHQFH	
52: ˆˇ	ˆˆˇ 6\FDPRUH 6W	6WRUPZDWHU WUHH WUHQFH	
52: ˆˇ	˜ 6WDQLVODXV 6W	6WRUPZDWHU WUHH WUHQFH	
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52: ˆˆ	ˇ :DOGHQ $YH	6WRUPZDWHU WUHH WUHQFH	
52: ˆˇ	ˇ 6WDQLVODXV 6W	6WRUPZDWHU WUHH WUHQFH	
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52: ˆ	˜˜ 0DUVKDOO 6W	6WRUPZDWHU WUHH WUHQFH	
52: ˆ	˜ 1RUWKDPSWRQ 6W	6WRUPZDWHU WUHH WUHQFH	
52: ˆ	˜ 1RUWKDPSWRQ 6W	6WRUPZDWHU WUHH WUHQFH	
52: ˆ	%ULQNPDQ $YH	6WRUPZDWHU WUHH WUHQFH	
52: ˆˇ	ˆ 6XPQHU 3O	6WRUPZDWHU WUHH WUHQFH	

,'	,PSHUYLRXV $UHD 0DQDJHG 6)
7RWDOV: ˜˜	˜˜ DFUHV

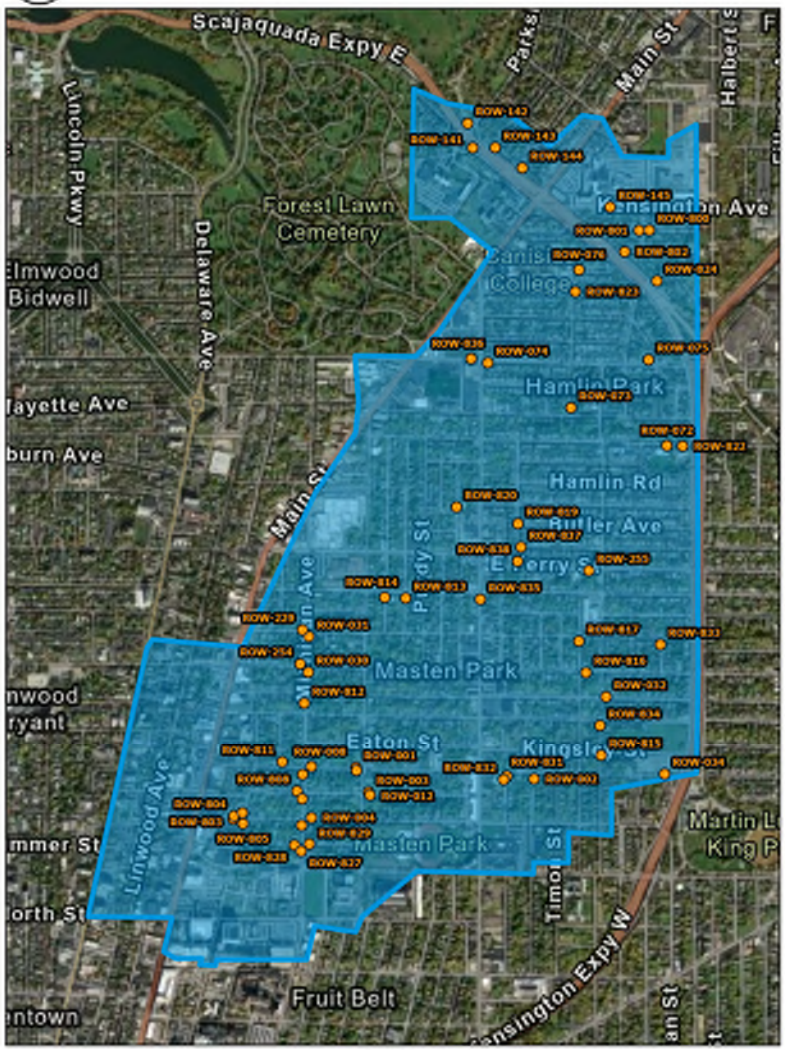
3DJH RI

'LVFODLPHU¸ 7KLV GRFXPHQW KDV EHHQ SUHSDUHG EDVHG RQ LQIRUPDWLRQ SURYLGHG E\ RWKHUV DV FLWHG LQ WKH 1RWHV VHFWLRQ 6WDQWHF KDV QRW YHULILHG WKH DFFXUDF\ DQG RU FRPSOH
UHVSRQVLELOLW\ IRU GDWD VXSSOLHG LQ HOHFWURQLF IRUPDW DQG WKH UHFLSLHQW DFFHSWV IXOO UHVSRQVLELOLW\ IRU YHULI\LQJ WKH DFFXUDF\ DQG FRPSOHWHQHVV RI WKH GDWD

BUFFALO
SEWER AUTHORITY

ATTACHMENT D

Package 1 Summary Map



1": 2,500 Feet

Legend

- GSI Footprint
- Package 1

ID	Location	System Type	Impervious Area Managed (SF)
ROW-001	198 Masten Ave	Stormwater tree trench	11,350
ROW-002	423 Northampton St	Stormwater tree trench	27,800
ROW-003	167 Masten Ave	Stormwater tree trench	7,250
ROW-004	158 Dodge St	Stormwater tree trench	12,900
ROW-005	1188 Michigan Ave	Stormwater tree trench	12,900
ROW-008	136 Northampton St	Stormwater tree trench	7,450
ROW-011	188 Masten Ave	Stormwater tree trench	12,100
ROW-012	157 Masten Ave	Stormwater tree trench	12,450
ROW-013	117 Northampton St	Stormwater tree trench	10,950
ROW-030	93 E Utica St	Stormwater tree trench	7,600
ROW-031	83 Glenwood Ave	Stormwater tree trench	7,650
ROW-032	162 Landon St	Stormwater tree trench	6,600
ROW-034	600 Northampton St	Stormwater tree trench	12,550
ROW-072	399 Northland Ave	Stormwater tree trench	6,250
ROW-073	25 Pleasant Pl	Stormwater tree trench	6,700
ROW-074	1715 Jefferson Ave	Stormwater tree trench	9,050
ROW-075	298 E Delavan Ave	Stormwater tree trench	11,450
ROW-076	126 Loring Ave	Stormwater tree trench	8,050
ROW-141	2 Agassiz Cir	Rain garden	14,050
ROW-142	23 Agassiz Cir	Rain garden	24,900
ROW-143	86 Humboldt Pkwy	Stormwater tree trench	6,800
ROW-144	140 Humboldt Pkwy	Stormwater tree trench	12,800
ROW-145	2157 Main St	Stormwater tree trench	10,150
ROW-229	1436 Michigan Ave	Bump out	6,700
ROW-254	1390 Michigan Ave	Stormwater tree trench	12,450
ROW-255	425 Ferry East	Stormwater tree trench	23,550
ROW-800	70 Monticello Pl	Stormwater tree trench	18,300
ROW-801	57 Monticello Pl	Stormwater tree trench	10,200
ROW-802	304 Humboldt Pkwy	Stormwater tree trench	11,150
ROW-803	31 Dodge St	Stormwater tree trench	23,950
ROW-804	56 Dodge St	Stormwater tree trench	12,400
ROW-805	1013 Ellicott St	Stormwater planter	6,800

ID	Location	System Type	Impervious Area Managed (SF)
ROW-806	1030 Ellicott St	Stormwater tree trench	11,500
ROW-808	1232 Michigan Ave	Stormwater tree trench	13,750
ROW-809	1218 Michigan Ave	Stormwater tree trench	6,550
ROW-811	102 Northampton St	Stormwater tree trench	14,950
ROW-812	61 Laurel St	Stormwater tree trench	24,250
ROW-813	41 Waverly St	Stormwater tree trench	13,000
ROW-814	159 Woodlawn Ave	Stormwater tree trench	5,600
ROW-815	149 Kingsley St	Stormwater tree trench	5,450
ROW-816	451 E Utica St	Stormwater tree trench	10,150
ROW-817	431 Glenwood Ave	Stormwater tree trench	6,900
ROW-820	34 Elsie Pl	Stormwater tree trench	11,800
ROW-822	575 Humboldt Pkwy	Stormwater planter	10,150
ROW-823	134 Hughes Ave	Stormwater tree trench	12,000
ROW-824	364 Humboldt Pkwy	Stormwater tree trench	13,500
ROW-827	1152 Michigan Ave	Stormwater tree trench	8,550
ROW-828	699 Edna Pl	Stormwater tree trench	12,100
ROW-829	1157 Michigan Ave	Stormwater tree trench	14,550
ROW-831	387 Northampton St	Stormwater tree trench	4,250
ROW-832	377 Northampton St	Stormwater tree trench	11,300
ROW-833	537 Glenwood Ave	Stormwater tree trench	23,550
ROW-834	485 Riley St	Stormwater tree trench	21,200
ROW-835	1407 Jefferson Ave	Stormwater tree trench	31,200
ROW-836	46 E Delavan Ave	Stormwater tree trench	21,850
ROW-837	2 Goulding Ave	Stormwater tree trench/bump out	15,300
ROW-838	334 E Ferry St	Stormwater tree trench	8,350
ROW-839	55 Beverly Rd	Infiltration trench	22,500
ROW-840	9 Beverly Rd	Infiltration trench	23,800
ROW-841	64 Hager St	Infiltration trench	9,000
ROW-842	273 Glenwood Ave	Infiltration trench	15,400

Total Impervious Area Managed: 787,700 (18.1 acres)

Notes

1. Coordinate System: ESRI PE String PROJCS NAD 1983 StatePlane New York West FIPS 3103 Feet GEOGCS G
2. Data Sources: Reference data provided by Buffalo Sewer Authority
3. Background: Esri Hybrid Aerial Imagery

Figure No. 1

BUFFALO SEWER AUTHORITY | Stantec

Client/Project: 195113553
Buffalo Sewer Authority
Green Stormwater Infrastructure Projects

Project Location
City of Buffalo
New York

Prepared by Stantec on: 4/10/2025

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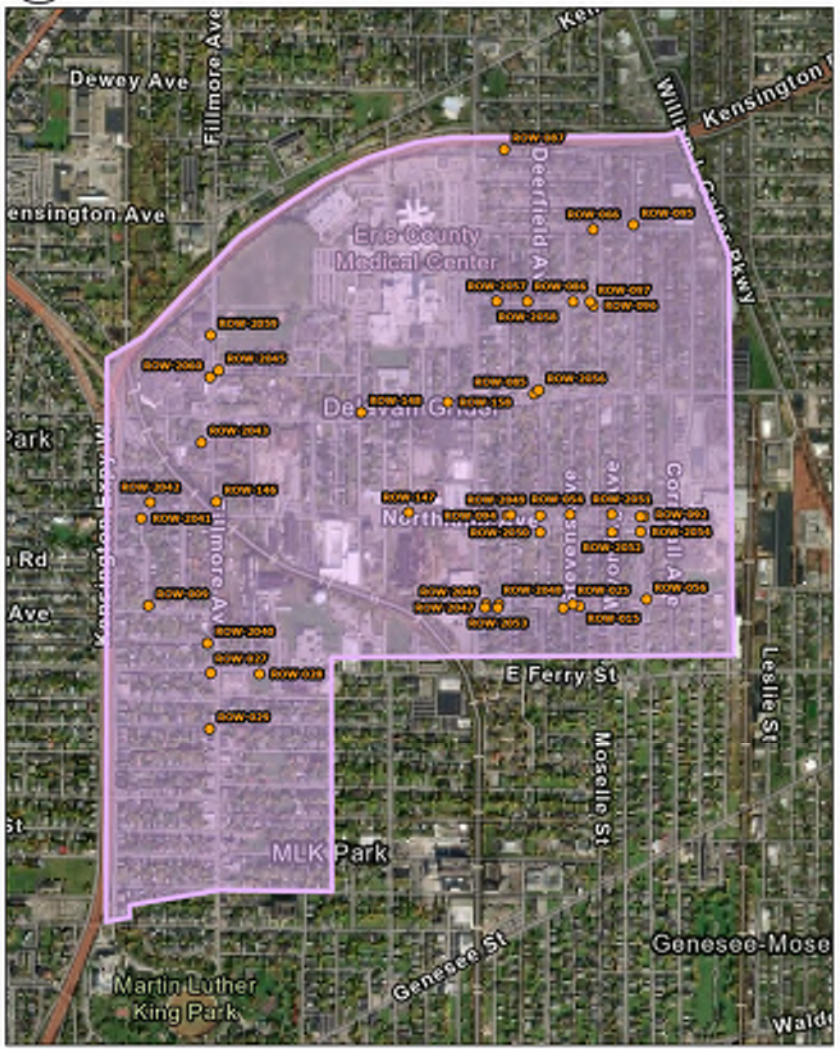
Package 2 Summary Map



1": 2,000 Feet

Legend

- GSI Footprint
- Package 2

ID	Location	System Type	Impervious Area Managed (SF)
ROW-009	36 Sidney St	Stormwater tree trench	11,250
ROW-015	75 Stevens Ave	Stormwater tree trench	9,050
ROW-016	68 Stevens Ave	Stormwater tree trench	13,400
ROW-025	75 Stevens Ave	Stormwater tree trench	6,200
ROW-027	1490 Fillmore Ave	Stormwater tree trench	8,350
ROW-028	1489 Fillmore Ave	Stormwater tree trench	16,500
ROW-029	1438 Fillmore Ave	Stormwater tree trench	13,500
ROW-054	182 Stevens Ave	Stormwater tree trench	15,400
ROW-056	79 Cambridge Ave	Rain garden	26,850
ROW-066	456 Wyoming Ave	Stormwater tree trench	16,550
ROW-085	796 E Delavan Ave	Stormwater planter	9,350
ROW-086	101 Humber Ave	Stormwater tree trench	10,300
ROW-087	31 Pembroke Ave	Stormwater tree trench	12,500
ROW-092	996 Northland Ave	Stormwater tree trench	8,850
ROW-093	882 Northland Ave	Stormwater tree trench	17,500
ROW-094	848 Northland Ave	Stormwater tree trench	12,250
ROW-095	465 Cambridge Ave	Stormwater tree trench	13,850
ROW-096	380 Wyoming Ave	Stormwater tree trench	15,700
ROW-097	390 Wyoming Ave	Stormwater tree trench	14,750
ROW-146	1711 Fillmore Ave	Stormwater tree trench	10,450
ROW-147	748 Northland Ave	Stormwater tree trench	22,350
ROW-148	636 E Delavan Ave	Stormwater tree trench	12,950

ID	Location	System Type	Impervious Area Managed (SF)
ROW-158	722 E Delavan Ave	Stormwater tree trench	9,500
ROW-2040	1528 Fillmore Ave	Stormwater tree trench	14,450
ROW-2041	467 Northland Ave	Stormwater tree trench	5,100
ROW-2042	478 Northland Ave	Stormwater tree trench	19,450
ROW-2043	1738 Fillmore Ave	Stormwater tree trench	18,150
ROW-2045	1821 Fillmore Ave	Stormwater tree trench	7,900
ROW-2046	75 Grider St	Stormwater tree trench	10,600
ROW-2047	61 Grider St	Stormwater tree trench	9,900
ROW-2048	74 Carl St	Stormwater tree trench	7,750
ROW-2049	850 Northland Ave	Stormwater tree trench	12,100
ROW-2050	881 Northland Ave	Stormwater tree trench	13,900
ROW-2051	958 Northland Ave	Stormwater tree trench	9,550
ROW-2052	957 Northland Ave	Stormwater tree trench	9,150
ROW-2053	74 Carl St	Stormwater tree trench	14,200
ROW-2054	985 Northland Ave	Stormwater tree trench	15,200
ROW-2055	988 Northland Ave	Stormwater tree trench	9,550
ROW-2056	822 E Delavan Ave	Stormwater tree trench	20,350
ROW-2057	110 Durham Ave	Stormwater tree trench	29,700
ROW-2058	106 Deerfield Ave	Stormwater tree trench	18,400
ROW-2059	1870 Fillmore Ave	Stormwater tree trench	11,750
ROW-2060	1866 Fillmore Ave	Stormwater tree trench	12,250

Total Impervious Area Managed: 576,750 (13.2 acres)

Notes

1. Coordinate System: ESRI PE String PROJCS NAD 1983 StatePlane New York West FIPS 3103 Feet GEOGCS G
2. Data Sources: Reference data provided by Buffalo Sewer Authority
3. Background: Esri Hybrid Aerial Imagery

Figure No.
1

BUFFALO SEWER AUTHORITY | Stantec

Client/Project
Buffalo Sewer Authority
Green Stormwater Infrastructure Projects

195113553

Project Location
City of Buffalo
New York

Prepared by Stantec on: 2/28/2025

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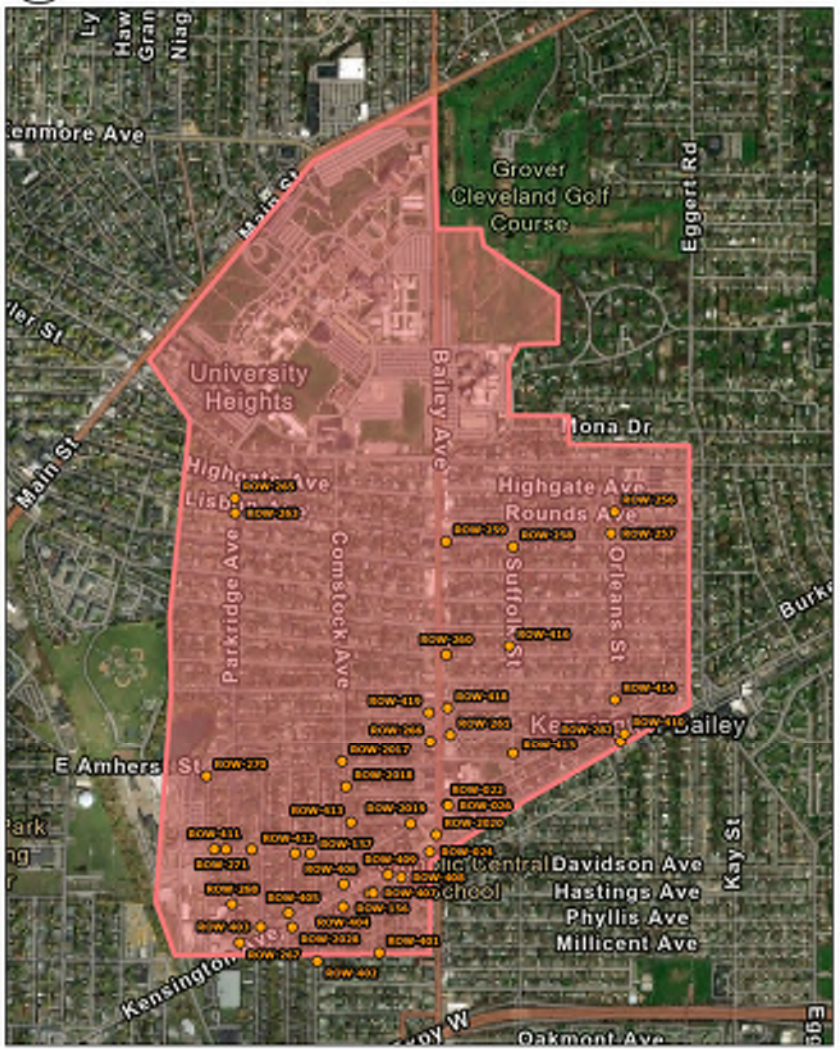
Package 4 Summary Map



ID	Location	System Type	Impervious Area Managed (SF)
ROW-022	3095 Bailey Ave	Infiltration trench	29,750
ROW-024	3038 Bailey Ave	Stormwater tree trench	14,700
ROW-026	3095 Bailey Ave	Bump out	13,750
ROW-156	1021 Kensington Ave	Stormwater tree trench	11,850
ROW-157	52 Thatcher Ave	Stormwater tree trench	8,400
ROW-2017	542 E Amherst St	Stormwater tree trench	5,300
ROW-2018	2 Thornton Ave	Stormwater tree trench	9,100
ROW-2019	240 Hutchinson Ave	Rain garden	20,700
ROW-2020	3070 Bailey Ave	Stormwater tree trench	6,550
ROW-2028	943 Kensington Ave	Stormwater tree trench	5,650
ROW-256	184 Rounds Ave	Stormwater tree trench	5,450
ROW-257	574 Lisbon Ave	Stormwater tree trench	12,950
ROW-258	479 Lisbon Ave	Stormwater tree trench	10,850
ROW-259	3365 Bailey Ave	Stormwater tree trench	8,650
ROW-260	3251 Bailey Ave	Stormwater tree trench	6,550
ROW-261	3167 Bailey Ave	Stormwater tree trench	8,100
ROW-263	193 Lisbon Ave	Stormwater tree trench	6,100
ROW-265	192 Lisbon Ave	Stormwater tree trench	10,800
ROW-266	3162 Bailey Ave	Stormwater tree trench	9,600
ROW-267	884 Kensington Ave	Stormwater tree trench	8,300
ROW-268	58 Parkridge Ave	Stormwater tree trench	15,400
ROW-270	401 E Amherst St	Stormwater planter	10,850

ID	Location	System Type	Impervious Area Managed (SF)
ROW-271	110 Parkridge Ave	Stormwater tree trench	17,750
ROW-282	1338 Kensington Ave	Stormwater tree trench	12,750
ROW-401	1 Copsewood Ave	Stormwater tree trench	5,100
ROW-402	1 Collingwood Ave	Stormwater tree trench	5,400
ROW-403	912 Kensington Ave	Stormwater tree trench	8,200
ROW-404	993 Kensington Ave	Stormwater tree trench	6,150
ROW-405	14 Elmer Ave	Stormwater tree trench	9,300
ROW-406	1000 Kensington Ave	Stormwater tree trench	7,700
ROW-407	1029 Kensington Ave	Stormwater tree trench	7,400
ROW-408	1061 Kensington Ave	Stormwater tree trench	13,800
ROW-409	1057 Kensington Ave	Stormwater tree trench	10,800
ROW-410	1346 Kensington Ave	Stormwater tree trench	22,200
ROW-411	125 Clarence Ave	Stormwater tree trench	14,200
ROW-412	65 Elmer Ave	Stormwater tree trench	13,700
ROW-413	67 Comstock Ave	Stormwater tree trench	4,850
ROW-414	584 Stockbridge Ave	Stormwater tree trench	9,050
ROW-415	778 E Amherst St	Stormwater tree trench	4,650
ROW-416	366 Dartmouth Ave	Stormwater tree trench	10,350
ROW-417	94 Poultney Ave	Stormwater tree trench	17,000
ROW-418	3195 Bailey Ave	Stormwater tree trench	6,150
ROW-419	3196 Bailey Ave	Stormwater tree trench	7,700

Total Impervious Area Managed: 453,550 (10.4 acres)

Legend

- GSI Footprint
- Package 4

Notes

1. Coordinate System: ESRI PE String PROJCS NAD 1983 StatePlane New York West FIPS 3103 Feet GEOGCS G
2. Data Sources: Reference data provided by Buffalo Sewer Authority
3. Background: Esri Hybrid Aerial Imagery

Figure No. 1

BUFFALO SEWER AUTHORITY | Stantec

Client/Project: Buffalo Sewer Authority, Green Stormwater Infrastructure Projects

Project Location: City of Buffalo, New York

195113553

Prepared by Stantec on: 2/28/2025

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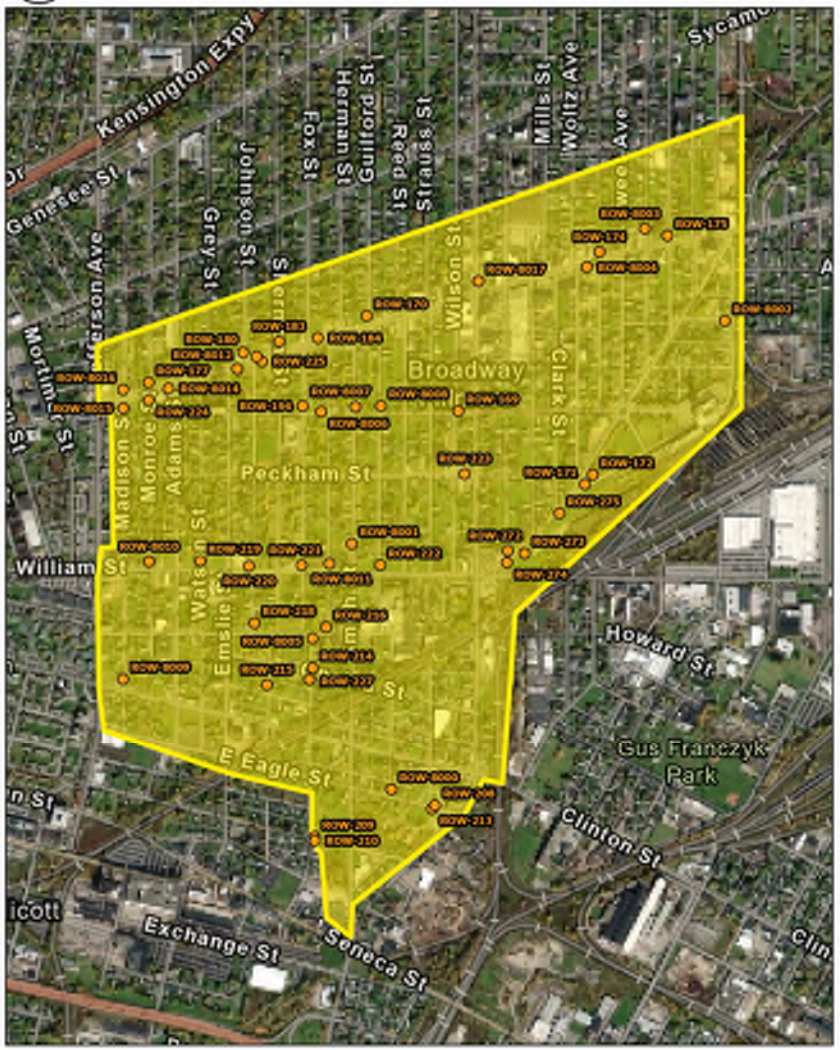
Package 8 Summary Map



ID	Location	System Type	Impervious Area Managed (SF)
ROW-169	612 Fillmore Ave	Stormwater tree trench	30,250
ROW-170	832 Broadway St	Stormwater tree trench	13,750
ROW-171	111 Memorial Dr	Stormwater tree trench	41,200
ROW-172	Peckham St & Curtiss St	Stormwater tree trench	27,150
ROW-174	1094 Broadway St	Stormwater tree trench	9,800
ROW-175	1164 Broadway St	Stormwater tree trench	9,800
ROW-177	596 Broadway St	Stormwater tree trench	11,350
ROW-180	700 Broadway St	Stormwater tree trench	14,000
ROW-183	740 Broadway St	Stormwater tree trench	23,350
ROW-184	768 Broadway St	Stormwater tree trench	19,250
ROW-194	74 Paderewski Dr	Stormwater tree trench	9,550
ROW-208	897 E Eagle St	Stormwater tree trench	7,500
ROW-209	818 S Division St	Stormwater tree trench	7,150
ROW-210	33 Lord St	Stormwater tree trench	7,450
ROW-213	897 E Eagle St	Stormwater tree trench	10,750
ROW-214	225 Lord St	Stormwater tree trench	6,200
ROW-215	238 Bristol St	Stormwater tree trench	12,750
ROW-216	238 Howard St	Stormwater tree trench	8,800
ROW-218	176 Howard St	Stormwater tree trench	8,800
ROW-219	195 Watson St	Stormwater tree trench	14,900
ROW-220	608 William St	Stormwater tree trench	26,150
ROW-221	668 William St	Stormwater tree trench	7,000
ROW-222	768 William St	Stormwater tree trench	8,450
ROW-223	389 Peckham St	Stormwater tree trench	18,900
ROW-224	589 Broadway	Stormwater tree trench	7,950

ID	Location	System Type	Impervious Area Managed (SF)
ROW-225	723 Broadway	Stormwater tree trench	9,550
ROW-227	90 Oneida St	Stormwater tree trench	8,650
ROW-272	34 Memorial Dr	Stormwater tree trench	7,600
ROW-273	59 Memorial Dr	Stormwater tree trench	7,600
ROW-274	20 Memorial Dr	Stormwater tree trench	8,500
ROW-275	114 Memorial Dr	Stormwater tree trench	10,050
ROW-8000	884 E Eagle St	Stormwater tree trench	16,200
ROW-8001	886 Smith St	Stormwater tree trench	14,200
ROW-8002	384 Curtiss St	Stormwater tree trench	10,050
ROW-8003	1132 Broadway St	Stormwater trench	13,700
ROW-8004	1073 Broadway St	Stormwater tree trench	17,650
ROW-8005	229 Howard St	Stormwater tree trench	7,050
ROW-8006	234 Shumway St	Stormwater tree trench	11,400
ROW-8007	1039 Smith St	Stormwater tree trench	11,600
ROW-8008	158 Paderewski Dr	Stormwater tree trench	12,000
ROW-8009	578 Clinton St	Stormwater tree trench	12,050
ROW-8010	518 William St	Stormwater tree trench	10,200
ROW-8011	716 William St	Stormwater tree trench	17,550
ROW-8012	687 Broadway St	Stormwater tree trench	8,700
ROW-8013	716 Broadway St	Stormwater tree trench	12,150
ROW-8014	615 Broadway St	Stormwater tree trench	18,650
ROW-8015	563 Broadway St	Stormwater tree trench	12,650
ROW-8016	566 Broadway St	Stormwater tree trench	14,100
ROW-8017	964 Broadway St	Stormwater tree trench	35,250

Total Impervious Area Managed: 669,300 (15.4 acres)

Legend

- GSI Footprint
- Package 8

Notes

1. Coordinate System: ESRI PE String PROJCS NAD 1983 StatePlane New York West FIPS 3103 Feet GEOGCS G
2. Data Sources: Reference data provided by Buffalo Sewer Authority
3. Background: Esri Hybrid Aerial Imagery

Figure No.
1

BUFFALO SEWER AUTHORITY Stantec

Client/Project
Buffalo Sewer Authority
Green Stormwater Infrastructure Projects

Project Location
City of Buffalo
New York

195113553

Prepared by Stantec on: 2/28/2025

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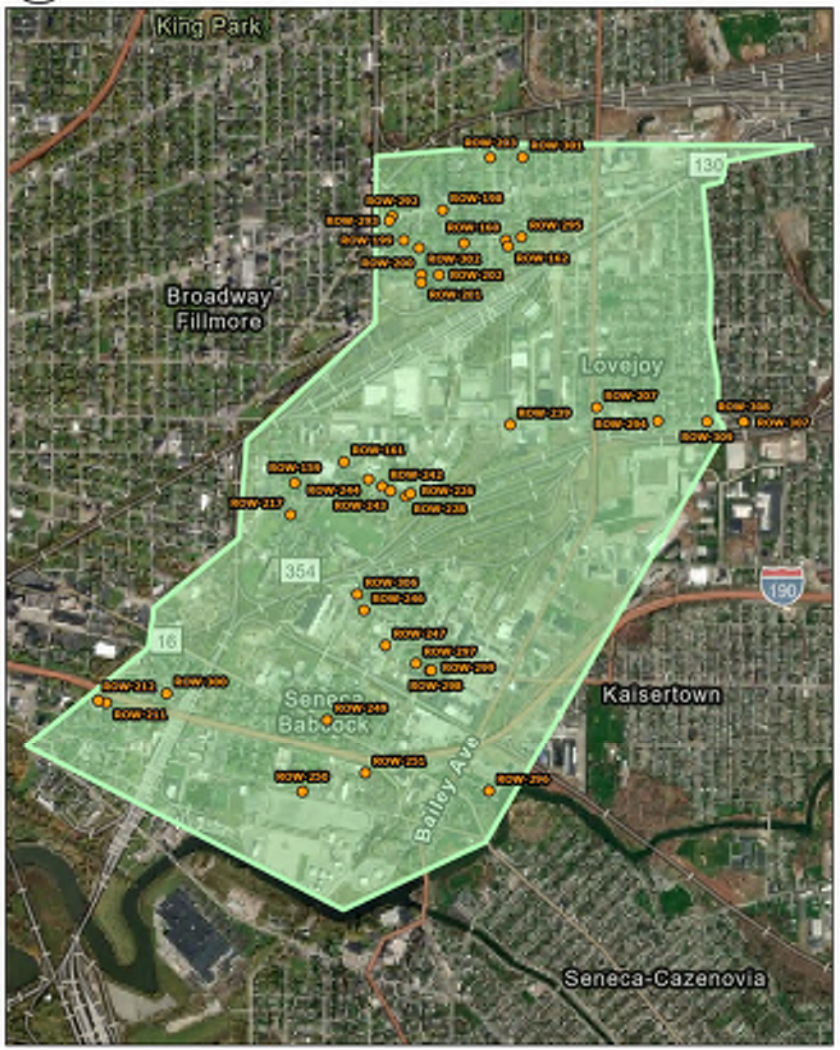
Package 9 Summary Map



1": 3,500 Feet

Legend

- GSI Footprint
- Package 9

ID	Location	System Type	Impervious Area Managed (SF)
ROW-159	135 Metcalfe St	Stormwater tree trench	11,700
ROW-160	242 Ashley St	Stormwater tree trench	4,900
ROW-161	612 Howard St	Stormwater tree trench	22,400
ROW-162	253 Ashley St	Stormwater tree trench	4,750
ROW-163	82 Peck St	Stormwater tree trench	11,150
ROW-198	1349 Broadway St	Stormwater planter	9,850
ROW-199	60 Ashley St	Stormwater tree trench/ bump out	8,750
ROW-200	66 Grimes St	Stormwater tree trench/ bump out	12,400
ROW-201	65 Grimes St	Stormwater tree trench/ bump out	8,050
ROW-202	96 Grimes St	Stormwater tree trench/ bump out	9,900
ROW-203	72 Koons Ave	Stormwater tree trench/ bump out	4,750
ROW-207	1155 Bailey Ave	Stormwater tree trench	8,650
ROW-211	807 Perry St	Stormwater tree trench	10,900
ROW-212	807 Perry St	Stormwater tree trench	8,900
ROW-217	80 Jones St	Stormwater tree trench	11,950
ROW-226	721 Babcock St	Stormwater tree trench	7,150
ROW-228	680 New Babcock St	Stormwater tree trench	7,500
ROW-239	1377 William St	Stormwater tree trench	7,300
ROW-242	700 Howard St	Stormwater tree trench	17,150
ROW-243	700 Howard St	Stormwater tree trench	4,250

ID	Location	System Type	Impervious Area Managed (SF)
ROW-244	660 Howard St	Stormwater tree trench	13,600
ROW-246	1237 Clinton St	Stormwater tree trench	13,450
ROW-247	2 Scoville Ave	Stormwater tree trench	19,050
ROW-249	1244 Seneca St	Stormwater tree trench	4,800
ROW-250	542 Elk St	Stormwater tree trench	18,300
ROW-251	1300 Perry St	Stormwater tree trench	19,850
ROW-292	1270 Broadway St	Stormwater planter	16,850
ROW-293	1261 Broadway St	Stormwater planter	13,900
ROW-294	1650 William St	Stormwater tree trench	11,000
ROW-295	32 Deshler St	Stormwater tree trench	5,750
ROW-296	42 Archer Ave	Stormwater tree trench	12,850
ROW-297	45 Kirkover St	Stormwater tree trench	16,700
ROW-298	6 Hobart St	Stormwater tree trench	9,400
ROW-299	9 Hobart St	Stormwater tree trench	8,850
ROW-300	110 Selkirk St	Stormwater tree trench	7,450
ROW-301	59 Illick St	Stormwater tree trench	3,850
ROW-302	81 Ashley St	Stormwater tree trench	6,250
ROW-306	1220 Clinton St	Stormwater tree trench	8,350
ROW-307	1814 William St	Stormwater tree trench	7,750
ROW-308	1804 William St	Stormwater tree trench	6,700
ROW-309	1738 William St	Stormwater tree trench	8,000

Total Impervious Area Managed: 425,250 (9.8 acres)

Notes

1. Coordinate System: ESRI PE String PROJCS NAD 1983 StatePlane New York West FIPS 3103 Feet GEOGCS G
2. Data Sources: Reference data provided by Buffalo Sewer Authority
3. Background: Esri Hybrid Aerial Imagery

Figure No.
1

BUFFALO SEWER AUTHORITY | Stantec

Client/Project
Buffalo Sewer Authority
Green Stormwater Infrastructure Projects

195113553

Project Location
City of Buffalo
New York

Prepared by Stantec on: 2/28/2025

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MINUTES OF THE REGULAR MEETING

OF THE

BUFFALO SEWER AUTHORITY

May 28, 2025

BUFFALO SEWER AUTHORITY

REGULAR MEETING
May 28, 2025
9:00 A.M.

Buffalo City Hall, 65 Niagara Square Room 1038
Teleconference +1 917- 933-2166, ID #179 862 068#

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	Enter into Executive Session	59331
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	B. Informative: Reallocation of Funds	
	C. Claim Against Liability and Casualty Reserve Fund	
	D. Confirmation of Appointments	
	E. Tuition Reimbursement	
3	Adoption of Amended "Final Schedule of Sewer Rents and Other Charges For 2025-2026"	59341
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6	Report on Bids Received - For the Purchase of Ferrous Chloride	59344
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9	Reports on Bids Received- Purchase of Various Gray Cast Iron Castings	59348
10	Report on Bids Received - Purchase of Various New & Unused Steel Products	59349
11	Report on Bids Received - Formal Bid Tabulation for the Removal and Disposal of Miscellaneous Construction Debris	59350
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18	Change Order No. 1 – Contract No. 82000071	59366-67
19	Change Order No. 1 – Contract No. 82000071	59368-71
20	Change Order No. 1 – Contract No. 82000080	59372-73
21	Change Order No. 1 – Contract No. 82000080	59374-78
22	Authorization To Enter into an Agreement with Wendel Companies, Inc., For Professional Engineering Services	59379
23	Authorization to Enter into an Agreement with Wendel Companies, Inc., for Professional Engineering Services	59380-81
24	Authorization to Enter into an Engineering Services Agreement with AECOM Consulting, Inc. for Design of the Roosevelt Park Offline Storage Facility	59382-83
25	Authorization to Enter into an Engineering Services Agreement with CHA Consulting, Inc. for Design of The Sidney-Lark Inline Storage Facility	59384-85
26	Municipal Resolution Authorizing Grant Application and Execution of Agreements for Financial Assistance	59386-87
27	Authorization to Provide Required Minimum Local Match Funding for the Environmental Facilities Corporation 2024 Green Resiliency Grant Award	59389-90

Attachment A: Final Schedule of Sewer Rents and Other Charges for 2025-2026

Attachment B: City Right-of-Way Packages 3, 5, 6

Attachment C: City Right of Way Package 7

Attachment D: City of Right of Way Package 1,2,4,8,9

Attachment E: BPS Package

CALL OF THE ROLL

Present:	Herbert Bellamy	Chairman of the Board
	Christopher Roosevelt	Vice Chairman of the Board
	Thomas E. Caulfield, PhD.	Board Member
	Hope Young Watkins	Board Member
	Patrick Sole Jr.	Board Member
	Charles Riley	Executive Secretary
	Cheryl Colston, Esq.	General Counsel
	Alexander Emmerson	Treatment Plant Superintendent
	Rosaleen Nogle, P.E.	Principal Sanitary Engineer
	Timothy Blake	Senior Instrument Technician
	Gelea James	Director of Human Resources
	LaToya Cunningham	Special Assistant
	Joel Renzoni	Director of Sewer Maintenance
	Paul Harris	Superintendent of Mechanical Maintenance
	Desiree Briggs	Preventative Maintenance Coordinator
	Carol Burns	Executive Assistant to Comptroller
	Laura Surdej	Erie County Department of Sewerage
	Walt Walker, P.E.	TYLin
	Jaime Davidson, P.E.	J.M. Davidson
	Douglas Gove, P.E.	AECOM
	Kate Mignone, P.E.	AECOM
Absent:		

The meeting was called to order at 9:16 AM. A quorum was present.

ITEM NO. 1

Motion to Adopt the Minutes of the Meeting of May 7, 2025

MOTION TO ADOPT

MADE BY DR. CAULFIELD

2ND BY MR. SOLE

AYES 5 NOES 0

Board Meeting of May 28, 2025

MOTION TO	Enter into Executive Session Pursuant to Open Meetings Law, Section 102 (3) (h) to discuss the proposed acquisition of real property interests, an easement at 50 and 54 Gates Circle.
MADE BY	DR. CAULFIELD
2ND BY	MR. SOLE
AYES 5	NOES 0

Board Meeting of May 28, 2025

ITEM NO. 1-A

AUTHORIZATION FOR THE BUFFALO SEWER AUTHORITY TO ENTER INTO AN EASEMENT AGREEMENT FOR AN EASEMENT AT 50 AND 54 GATES CIRCLE

WHEREAS: The Buffalo Sewer Authority is planning sewer improvement work that includes constructing Real Time Control Smart Sewers at Gates Circle; and

WHEREAS: The sewer improvement project will address combined sewer overflows; and

WHEREAS: The purpose of the easement is to provide electrical power and service to the project; and

WHEREAS: The City of Buffalo, on behalf of the Buffalo Sewer Authority, is acquiring the real property interests which is a total of five feet wide and ninety-two feet in length; and

WHEREAS: Based upon the appraisals prepared by KLW Appraisal Group and the review and approval by the City Appraisal Review Board, the Buffalo Sewer Authority will make a one-time payment of $3,550.00 for 50 Gates Circle and a one-time payment of $2,250.00 for 54 Gates Circle.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority authorizes the Principal Sanitary Engineer and the Executive Secretary to enter into an Easement Agreement, on behalf of the Buffalo Sewer Authority, for an easement at 50 and 54 Gates Circle that supports the Buffalo Sewer Authority's Real Time Control Smart Sewers Project.

MOTION TO APPROVE

MADE BY MR. SOLE

2ND BY DR. CAULFIELD

AYES 5 NOES 0

Board Meeting of May 28, 2025

ITEM NO. 2

APPROVAL OF CONSENT AGENDA

CONTENTS

A. Informative: Temporary Investments

B. Informative: Reallocation of Funds

C. Claim Against Liability and Casualty Reserve Fund

D. Confirmation of Appointments

E. Tuition Reimbursement

MOTION TO APPROVE

MADE BY DR. CAULFIELD

2ND BY MR. ROOSEVELT

AYES 5 NOES 0

Board Meeting of May 28, 2025

2-A

INFORMATIVE: TEMPORARY INVESTMENTS (CERTIFICATES OF DEPOSIT AND TREASURY BILLS)

As of April 30th, 2025

ISSUE DATE	MATURITY DATE	TOTAL DAYS	AMOUNT	BANK	RATE	INTEREST AMOUNT
CONSTRUCTION/CAPITAL IMPROVEMENT FUND						
31-Jul-12	**MONEY MARKET**		$4,845,738.59	Key	0.01%	Public NOW
27-Mar-25	8-May-25	42	$8,998,678.75	Key Banc Capital	4.20%	$44,321.25
10-Apr-25	22-May-25	42	$6,498,609.51	Key Banc Capital	4.25%	$32,390.49
			$20,343,026.85			
LIABILITY AND CASUALTY RESERVE FUND						
31-Jul-12	**MONEY MARKET**		$900,720.25	Key	0.01%	Public NOW
17-Apr-25	17-Jul-25	91	$787,609.50	Key Banc Capital	4.17%	$8,390.50
			$1,688,329.75			
OPERATING FUND						
31-Jul-12	**SUPER NOW**		**$7,108,963.57**	Key	0.01%	Public NOW
TRUST & AGENCY FUND						
31-Jul-12	**SUPER NOW**		**$21,545.24**	Key	0.01%	Public NOW
SURPLUS FUND						
			$631.69	Wilmington U.S. Treasury	4.79%	
21-Nov-24	15-May-25	175	$10,004,262.50	Key Banc Capital	4.50%	$223,737.50
			$10,004,894.19			
NET REVENUE FUND						
			$1,235,576.45	Wilmington U.S. Treasury		
27-Mar-25	29-May-25	63	$2,000,295.54	M&T Securities	4.17%	$14,704.46
			$3,235,871.99			

BSA 2021 EIB FUND

			$324,902.08	Cash	0.00%	
14-Nov-24	8-May-25	175	$32,615,964.44	Key Banc Capital	4.26%	$690,035.56
12-Dec-24	5-Jun-25	175	$9,982,955.78	M&T Securities	4.16%	$206,044.22
19-Dec-24	5-Jun-25	168	$10,101,004.00	M&T Securities	4.14%	$198,996.00
			$53,024,826.30			

DEBT RESERVE FUND

				Series J		
02-Jul-14	13-Nov-33	7076	**$278,840.11**	UST State/Local Govt	2.70%	
				Series K		
02-Jul-14	15-Feb-33	6803	**$194,461.38**	UST State/Local Govt	2.70%	
				Series L		
12-Nov-15	1-Oct-35	7263	**$689,547.00**	UST State/Local Govt	2.44%	
				Series M		
27-Jun-14	1-May-44	10901	**$585,063.94**	UST State/Local Govt	2.70%	
				Series N		
15-Nov-12	15-Apr-32	7091	**$2,167,157.00**	UST State/Local Govt	2.42%	
			EFC 2021			
			$3.14	Wilmington U.S. Treasury	4.79%	
13-Feb-25	7-Aug-25	175	$358,563.08	M&T Securities	4.18%	$7,436.92
			$358,566.22			

DSF PRIN &INT

$0.01 Wilmington Fund

DSF 2021 EIB

$1,412,747.88 Wilmington Fund 4.79%

RECEIVE & FILE

Board Meeting of May 28th, 2025

2-B

INFORMATIVE: REALLOCATION OF FUNDS

The following budgetary transfers have been made to cover unforeseen shortages. These transfers do not change the total amount of the Buffalo Sewer Authority's operating budget.

Wastewater Treatment Plant

04/23/2025	00290105 AER Equipment Maint.	-$50,340.00	00520106 MAIN Service & Equipment	$50,340.00
04/24/2025	00200104 PLAN Travel Expenses	-$8,300.00	00510107 LAB Operating Equipment	$8,300.00
04/24/2025	00290106 AERATION Refuse Disposal	-$16,000.00	00300103 BLOW Electric Light & Power	$16,000.00
04/28/2025	00290105 AER Equipment Maint.	-$6,591.60	00200106 PLAN Maint. Equipment	$6,591.60
05/09/2025	00290105 AER Equipment Maint.	-$567.42	00230105 GRIT Equipment Maint.	$567.42

Industrial Waste

05/14/2025	00550106 IWS Eng and Tech	-$343.00	00550105 IWS Small Tools	$343.00

Financial Contingency

04/24/2025	00800183 FIN Contingency	-$2,800.00	00650108 SWRM Insurance	$2,800.00
04/24/2025	00800183 FIN Contingency	-$58,000.00	00200108 PLAN Insurance	$58,000.00
04/28/2025	00800183 FIN Contingency	-$4,000.00	00200107 PLAN Office Equipment	$4,000.00
05/05/2025	00800183 FIN Contingency	-$14,200.00	00200107 PLAN Office Equipment	$14,200.00

RECEIVE & FILE

Board Meeting of May 28, 2025

2-C

CLAIM AGAINST LIABILITY AND CASUALTY RESERVE FUND

WHEREAS: Thomas Feeley filed a Notice of Claim for property damage to a 2013 Infiniti Sedan as a result of an automobile accident involving a Buffalo Sewer Authority vehicle that occurred on or about April 21, 2025.

WHEREAS: The General Counsel has reviewed this matter and recommends the final settlement amount of $3039.37 is in the best interest of the Buffalo Sewer Authority.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the payment to Thomas Feeley in the final settlement amount of $3,039.37 in full and complete settlement of this matter. This claim will be paid out of the Liability and Casualty Reserve Fund.

2-D

CONFIRMATION OF APPOINTMENTS

EQUIPMENT OPERATOR (PERMANENT)
SEWER MAINTENANCE DIVISION
$25.26 PER HOUR
EFFECTIVE: MAY 19, 2025

MARCUS ALEXANDER
107 MAY ST.
BUFFALO, NY 14211

LABORER I (PERMANENT)
SEWER MAINTENANCE DIVISION
$22.04 PER HOUR
EFFECTIVE: MAY 12, 2025

VINCENT RUSSO
66 STERLING AVE.
BUFFALO, NY 14216

LABORER I (PERMANENT)
SEWER MAINTENANCE DIVISION
$22.04 PER HOUR
EFFECTIVE: MAY 12, 2025

DAMON TATE
225 LIBSON AVE
BUFFALO, NY 14215

LEGAL INVESTIGATOR (PROVISIONAL)
INDUSTRIAL WASTE DIVISION
$66,478 PER ANNUM
EFFECTIVE: MAY 19, 2025

NICHOLAS JULIEN
155 AVERY AVE.
BUFFALO, NY 14216

SEWER CONSTRUCTION INSPECTOR (TEMPORARY)
ENGINEERING DIVISION
$74,793 PER ANNUM
EFFECTIVE: MAY 26, 2025

SAMUEL LOZADA JR.
301 GERMANIA ST.
BUFFALO, NY 14220

SEWER MAINTENANCE SUPERVISOR I (PROVISIONAL)
SEWER MAINTENANCE DIVISION
$68,247 PER ANNUM
EFFECTIVE: MARCH 19, 2025

ANDREW STRUG
16 CAMBRIA ST.
BUFFALO, NY 14206

WHEREAS: The preceding appointments were made by the Executive Secretary and Principal Sanitary Engineer since the last Board Meeting; and

WHEREAS: The Executive Secretary and Principal Sanitary Engineer requests confirmation of each appointment.

NOW THEREFORE
BE IT RESOLVED: That the preceding appointments are hereby confirmed by the Board of the Buffalo Sewer Authority.

2-E

TUITION REIMBURSEMENT

WHEREAS: In accordance with the Agreements between the Buffalo Sewer Authority and CSEA Local 815 and the Communications Workers of America, the following Buffalo Sewer Authority employees have applied for Tuition Reimbursement:

EMPLOYEE	SCHOOL	COURSE	TUITION%	REIMBURSEMENT TOTAL
Crystalee Lozada	Empire State University	Intro Race, Class & Gender	75%	$928.25
Crystalee Lozada	Empire State University	Statistics	90%	$1,190.99

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves the above applications for Tuition Reimbursement totaling $2,119.24. These Reimbursements will be charged to account no. 00100106-421026.

ITEM NO. 3

ADOPTION OF AMENDED "FINAL SCHEDULE OF SEWER RENTS AND OTHER CHARGES FOR 2025-2026"

WHEREAS: The Buffalo Sewer Authority, in the meeting of April 9, 2025, adopted a proposed "Schedule of Sewer Rents and Other Charges for 2025-2026" and authorized the publication of this notice, commencing April 11, 2025, once a week for three (3) consecutive weeks, in the City Record and Buffalo News; and

WHEREAS: The thirty-day period for inspection of the Schedule, and the filing of, has now expired, and no protest were filed; and

WHEREAS: It is now in order to adopt the "Final Schedule of Sewer Rents and Other Charges for 2025-2026"; and

WHEREAS: The proposed "Schedule of Sewer Rents and Other Charges for 2025-2026" increases to the levy of sewer rents based on the assessed value of property to $29,900,000; and

WHEREAS: The proposed "Schedule of Sewer Rents and Other Charges for 2025-2026" includes a three-percent Consumer Price Index adjustment to all sewer rents based on the use of water; and

WHEREAS: With the goal of providing the citizens of the City of Buffalo with equitable and affordable water resources, the "Schedule of Sewer Rents and Other Charges" continues to include low-income and senior discount programs.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby adopts the "Final Schedule of Sewer Rents and Other Charges for 2025-2026".

MOTION TO APPROVE

MADE BY MR. ROOSEVELT

2ND BY MR. SOLE

AYES 5 NOES 0

Board Meeting of May 28, 2025

ITEM NO. 4

CONTRACT APPROVAL - AUDIT AND ACCOUNTING SERVICES

WHEREAS: The use of independent Certified Public Accountants is necessary in order that the Buffalo Sewer Authority submits financial statements in accordance with generally accepted auditing standards, prepares an Annual Comprehensive Financial Report for submission to the New York State Comptroller, to meet requirements of the Amended & Restated Bond Resolution, and develops accurate cost allocation schedules of operations at the Bird Island Treatment Facility; and

WHEREAS: Drescher & Malecki LLP, Certified Public Accountants, has proposed to extend their service contract with the Buffalo Sewer Authority for accounting and auditing services for a one-year period, beginning July 1, 2025, for a fee not to exceed $47,430.00, to prepare a federal single audit for a fee not to exceed $4,590.00, to prepare an accountant's certificate for a fee not to exceed $1,075.00, and to prepare a cost allocation schedule for a fee not to exceed $5,300.00. The cost for these services remains the same as last fiscal year's contract; and

WHEREAS: The Board of the Buffalo Sewer Authority recommends renewing this contract for the fiscal year beginning July 1, 2025.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Chairman of the Board to enter into an agreement with Drescher & Malecki LLP, Certified Public Accountants, to perform auditing services for a cost not to exceed $58,395.00, for the period July 1, 2025 through June 30, 2026. Account nos. 00110106-432001 and account no. 00550106-432001 will be charged for these services.

MOTION TO APPROVE

MADE BY MR. SOLE

2ND BY DR. CAULFIELD

AYES 5 NOES 0

Board Meeting of May 28, 2025

ITEM NO. 5

REPORT ON BIDS RECEIVED - FOR THE PURCHASE OF SODIUM HYPOCHLORITE

WHEREAS: Formal bids were advertised and solicited for purchase of Sodium Hypochlorite at the Bird Island Treatment Facility. The following bids were received and opened by the Buffalo Sewer Authority on April 23, 2025:

VENDOR	COST PER GALLON	TOTAL ANNUAL COST (based on est. qty. of 1,100,000 gallons)
BISON LABORATORIES, INC.	**$1.597**	**$1,756,700.00**
KUEHNE CHEMICAL CO, INC.	**NO**	**BID**
JCI JONES CHEMICALS, INC.	**$1.630**	**$1,793,000.00**

; and

WHEREAS: The Treatment Plant Superintendent and staff reviewed the quotes received and recommend the purchase be awarded to the lowest bidder, Bison Laboratories, Inc., at a total cost not to exceed $1,756,700.00; and

WHEREAS: Board approval is required on purchases over $35,000.00

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to purchase Sodium Hypochlorite from Bison Laboratories, Inc., in the amount not to exceed $1,756,700.00. This purchase will be charged to account no. 00330105-467044.

MOTION TO APPROVE

MADE BY DR. CAULFIELD

2ND BY MR. SOLE

AYES 5 NOES 0

Board Meeting of May 28, 2025

ITEM NO. 6

REPORT ON BIDS RECEIVED - FOR THE PURCHASE OF FERROUS CHLORIDE

WHEREAS: Formal bids were advertised and solicited for purchase of Ferrous Chloride at the Bird Island Treatment Facility. The following bids were received and opened by the Buffalo Sewer Authority on April 23, 2025:

VENDOR	COST PER GALLON	TOTAL ANNUAL COST (based on est. qty. of 320,000 gallons)
KEMIRA WATER SOLUTIONS	**$0.967**	**$309,440.00**
PENCCO, INC.	**NO**	**BID**
PVS CHEMICALS	**NO**	**BID**

; and

WHEREAS: The Treatment Plant Superintendent and staff reviewed the quote received and recommend the purchase be awarded to the only bidder, Kemira Water Solutions, at a total cost not to exceed $309,440.00.; and

WHEREAS: Board approval is required on purchases over $35,000.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to purchase ferrous chloride from Kemira Water Solutions, in the amount not to exceed $309,440.00. This purchase will be charged to account no. 00360105-467044.

MOTION TO APPROVE

MADE BY DR. CAULFIELD

2ND BY MS. YOUNG -WATKINS

AYES 5 NOES 0

Board Meeting of May 28, 2025

ITEM NO. 7

CHANGE ORDER NO. 1 – GRIT REMOVAL SYSTEM IMPROVEMENTS PROJECT
CONTRACT NO 82000037

CONTRACTOR:	ORIGINAL CONTRACT COST	$884,000.00
Quackenbush Inc.	PREVIOUS CHANGE ORDER	N/A
495 Kennedy Drive	THIS CHANGE ORDER	($21,110.86)
Buffalo, New York 14227	ADJUSTED CONTRACT COST	$862,889.14

WORK: Deduction Change Order for unused allowance items on the Grit Removal System Upgrades

---

DESCRIPTION OF CHANGE OR EXTRA WORK:

Item #1 Deduction Change Order for unused allowance items on the Grit Removal System Improvements

REASON FOR CHANGE OR EXTRA WORK:

Item #1 The original contract consisted of an $80,000.00 contingency allowance to be used to cover unforeseen issues and concerns related to the project. $58,889.14 was used for controls integration not covered in the original scope, thereby leaving $21,110.86 unused.

COST OF CHANGE OR EXTRA WORK:

Item #1 ($21,110.86)

The total decrease to the contract as a result of this Change Order is $21,110.86

WHEREAS: In Item 20 on July 28, 2021, the Board of the Buffalo Sewer Authority authorized the General Manager to enter into and execute a contract with Quackenbush Inc., for Bird Island Grit Removal System Improvements project at a cost not to exceed $884,000.00; and

WHEREAS The Project consulting Engineer, Arcadis, has certified that the contractor completed the work in accordance with the plans and specifications on May 28, 2025, and that $21,110.86 remains unspent in this contract and that a deduct change order in this amount is therefore appropriate and the Senior Instrument Technician and staff concurs; and

CONTRACT SUPPLEMENT CONDITIONS:

1. The contract completion date established in the original contract or as modified by previous contract supplements is hereby changed by 0 calendar days, making the final completion date unchanged.

2. Any additional work to be performed under this contract supplement shall be carried out in compliance with the specifications included in the preceding description of changes involved with the supplemental contract drawings designated none and under the provisions of the original

contract, including compliance with applicable equipment specifications, general specifications, and project specifications for the same type of work.

3. This contract supplement unless otherwise provided herein does not relieve the Contractor from strict compliance with the guarantee provisions of the original contract, particularly those pertaining to performance and operation of equipment.

4. The Contractor expressly agrees that he will place under coverage of his performance and payment bonds and Contractor's Insurance all work covered by this contract supplement. The Contractor will furnish to the Owner evidence of increased coverage of his performance and payment bonds for the accrued value of all contract supplements that exceeds the original contract price by twenty percent (20%).

5. The costs established under this contract supplement are acknowledged as including any and all costs associated with the work described herein and including any and all costs associated with any and all work performed or to be performed by the Contractor that may be affected in any manner by the work described herein.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves Change Order No. 1 to Contract No. 82000037 as written in the above Agenda Item, decreasing the contract cost in the amount of $21,110.86, making the adjusted contract cost $862,889.14.

MOTION TO APPROVE

MADE BY MR. SOLE

2ND BY DR. CAULFIELD

AYES 5 NOES 0

Board Meeting of May 28,2025

ITEM NO. 8

CERTIFICATE OF ACCEPTANCE AND OCCUPANCY GRIT REMOVAL SYSTEM IMPROVEMENTS PROJECT CONTRACT 82000037

PROJECT: Bird Island Grit Removal System Improvements

BID: $884,000.00

CONTRACTOR: Quackenbush, Inc.
495 Kennedy
Buffalo, NY 14227

WHEREAS: In Item 20 on July 28, 2021, the Board of the Buffalo Sewer Authority authorized the General Manager to enter into and execute a contract with Quackenbush Inc., for Bird Island Grit Removal System Improvements project at a cost not to exceed $884,000.00;

WHEREAS: In item 7 of the May 28th, 2025 Board meeting, the Board of the Buffalo Sewer Authority authorized a deduction Change Order #1 in the amount of $21,110.86, making the adjusted contract cost $862,889.14; and

WHEREAS The Project consulting Engineer, Arcadis, has certified that the contractor completed the work in accordance with the plans and specifications on May 28, 2025, the Buffalo Sewer Authority Capital Improvement Project staff concurs; and

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby finds and determines that:

a. The work to be performed under the terms of the Contract has been complete and is accepted;

b. The date of entrance and occupancy be fixed as of May 28, 2025;

c. The final cost of the Contract is $862,889.14.

MOTION TO APPROVE

MADE BY MR. SOLE

2ND BY DR. CAULFIELD

AYES 5 NOES 0

Board Meeting of May 28, 2025

ITEM NO. 9

REPORTS ON BIDS RECEIVED- PURCHASE OF VARIOUS GRAY CAST IRON CASTINGS

WHEREAS: Formal bids were advertised and solicited for the purchase of the following various gray cast iron castings:
(125) Standard manhole frame & cover set in accordance with specifications & as specified in the BSA drawing; and

WHEREAS: The following bids were received and opened by the Buffalo Sewer Authority Purchase Department on May 14, 2025:

Vendor	Total Cost:
EJ USA Inc.	$73,475.00
Ferguson Enterprise LLC	NO RESPONSE
Neenah Foundry	$91,625.00

; and

WHEREAS: The Director of Sewer Maintenance and staff reviewed the quotes received and recommend awarding the entire purchase to the lowest bidder, EJ USA Inc., at a total cost of $73,475.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to purchase the above listed various gray cast iron castings from EJ USA Inc., at a total cost of $73,475.00. This purchase will be charged to account no. 00660105-466269.

MOTION TO APPROVE

MADE BY MR. SOLE

2ND BY MR. ROOSEVELT

AYES 5 NOES 0

Board Meeting of May 28, 2025

ITEM NO. 10

REPORT ON BIDS RECEIVED - PURCHASE OF VARIOUS NEW & UNUSED STEEL PRODUCTS

WHEREAS: Formal bids were advertised and solicited for the purchase of the following various steel products:

1. (20) Receiver Bottom Section w/slide; STANDARD; Dark
2. (50) Receiver Top Section; 6 inch; Steel; Dark
3. (10) Receiver Top Section; 12 inch; Steel; Dark
4. (10) Receiver Top Section; 16 inch; Steel; Dark
5. (30) Curb Box; 4 inch; Steel; Dark
6. (30) Curb Box; 5 inch; Steel; Dark
7. (75) Curb Box; 6 inch; Steel; Dark
8. (50) Curb Box; 7 inch; Steel; Dark
9. (50) Curb Box; 8 inch; Steel; Dark
10. (30) McConnell Curb Box, Steel,23 Inch X 9 Inch, 7 Inch Reveal
11. (30) McConnell Curb Box, Steel, 23 Inch X 10 Inch, 8 Inch Reveal

WHEREAS: The following bids were received and opened by the Buffalo Sewer Authority Purchase Department on May 14, 2025 at 2:00 PM:

Vendor	Cost
Melius Welding	$116,675.00
EJ USA	$130,007.15

; and

WHEREAS: The Director of Sewer Maintenance and staff carefully reviewed the quotes received for each item needed and recommend awarding the entire purchase to the low bidder, Melius Welding, at a total cost of $116,675.00; and

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to purchase the above listed various steel products from the low bidder, Melius Welding at a total cost of $116,675.00. These purchases will be charged to account no. 00660105-466269.

MOTION TO APPROVE

MADE BY DR. CAULFIELD

2ND BY MR. SOLE

AYES 3 NOES 0

Board Meeting of May 28, 2025

ITEM NO. 11

REPORT ON BIDS RECEIVED - FORMAL BID TABULATION FOR THE REMOVAL AND DISPOSAL OF MISCELLANEOUS CONSTRUCTION DEBRIS

WHEREAS: Formal bids were advertised and solicited for the Removal and Disposal of Miscellaneous Construction Debris for a one-year period, July 1, 2025 to June 30, 2026, with an option to renew for four (4) one-year periods; and

WHEREAS: The following bids were received and opened by the Purchasing Department on, April 23, 2025 at 2:00 PM:

VENDOR	Price Per Ton (Approx. 2,000 tons)	Total Annual Cost
Modern Disposal Services, Inc	$95.00	$190,000.00
NOVA Technologies	NO	BID
Waste Management	$64.00	$128,000.00

; and

WHEREAS: The Director of Sewer Maintenance, and staff reviewed the quote received and recommend this service be awarded to Waste Management, at a total cost not to exceed $128,000.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to enter into a contract with Waste Management, to provide the removal and disposal of miscellaneous construction debris beginning on July 1, 2025 to June 30, 2026, with an option to renew for four (4) one-year periods, at an annual cost not to exceed $ 128,000.00 Expenses for this contract will be charged to account no. 00660106-442100 .

MOTION TO APPROVE

MADE BY MR. SOLE

2ND BY DR. CAULFIELD

AYES 5 NOES 0

Board Meeting of May 28, 2025

ITEM NO. 12

EXTENSION OF THE CONTRACT FOR THE IN-PLANT EQUIPMENT MAINTENANCE SERVICES

WHEREAS: On June 28, 2023, the Board of the Buffalo Sewer Authority awarded a contract to Hohl Industrial Services, for In-Plant Equipment Services at a total cost not to exceed $2,315,867.00 for the fiscal year 2023–2024, with an option to renew for four (4) one-year periods; and

WHEREAS: On May 29, 2024, the Board authorized the extension of this contract with Hohl Industrial Services, for one (1) additional year under the same terms and conditions for fiscal year 2024–2025; and

WHEREAS: Hohl Industrial Services, has agreed to extend this contract for one (1) additional year under the same terms and conditions for fiscal year 2025–2026; and

WHEREAS: The Superintendent of Mechanical Maintenance and staff recommend this extension at a total cost not to exceed $2,315,867.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to renew the contract with Hohl Industrial Services, for In-Plant Equipment Services for the period of July 1, 2025–June 30, 2026, at a total cost not to exceed $2,315,867.00. Expenses for this contract will be charged to Account No. 00520106-443421.

MOTION TO APPROVE

MADE BY MR. SOLE

2ND BY MS. YOUNG -WATKINS

AYES 5 NOES 0

Board Meeting of May 28, 2025

ITEM NO. 13

AUTHORIZATION TO ENTER INTO AN AGREEMENT FOR CONTINUATION OF A THIRD PARTY GREEN INFRASTRUCTURE STEWARDSHIP SERVICE PROGRAM

WHEREAS: To continue to meet the needs of the Division of Green Infrastructure Maintenance, along with expanding the workforce development program scope to support facility maintenance and operation needs, the Buffalo Sewer Authority sent out request for proposals (RFP) for a one-year period (July 1, 2025-June 30, 2026), with an option to renew for four (4) one-year periods; and

WHEREAS: The RFP was issued to multiple organizations including PUSH Buffalo, PowerCorpsPHL, Buffalo Center for Health Equity, The Buffalo Urban League, and The Service Collaborative of WNY; and

WHEREAS: The Service Collaborative of WNY provided the only response to the RFP by the specified deadline of 3:00 PM April 17, 2025; and

WHEREAS: On April 25, 2025, the AmeriCorps agency terminated $400 million in grants nationwide including one upon which the Service Collaborative of WNY intended to rely to provide services under their original proposal; and

WHEREAS: In recognition of the extraordinary circumstances and the status of the Service Collaborative of WNY as the sole proposal, a revised proposal reflecting the removal of this federal funding was requested; and

WHEREAS: The Service Collaborative of WNY resubmitted their proposal dated May 7, 2025; and

WHEREAS: Based upon the review of the proposal dated May 7, 2025, the Executive Secretary, the Principal Sanitary Engineer and the Superintendent of Mechanical Maintenance recommend retaining The Service Collaborative of WNY to administer the Green Infrastructure Stewardship Service Program as outlined in the RFP at an agreed upon cost not to exceed $350,000.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to execute an agreement with The Service Collaborative of WNY, at a total cost not to exceed $350,000.00, to administer the Green Infrastructure Water Equity Ambassador Stewardship Service Program as defined in the proposal dated May 7, 2025, for a one-year period (July 1, 2025-June 30, 2026), with an option to renew for four (4) one-year periods. These services will be charged to account no. 00520106-432004.

MOTION TO APPROVE

MADE BY DR. CAULFIELD

2ND BY MR. ROOSEVELT

AYES 5 NOES 0

Board Meeting of May 28, 2025

ITEM NO. 14

CHANGE ORDER NO. 1 – CONTRACT NO. 82000082

CONTRACTOR:		
Wendel WD Architecture, Engineering,		
Surveying & Landscape Architecture P.C	ORIGINAL CONTRACT COST	$289,000.00
375 Essjay Road Suite 200	THIS CHANGE ORDER	$64,650.00
Williamsville, NY 14221	ADJUSTED CONTRACT COST	$353,650.00

WORK: Hennepin Park Green Infrastructure

DESCRIPTION OF CHANGE OR EXTRA WORK:

Item #1	Additional subconsultant coordination and design effort

REASON FOR CHANGE OR EXTRA WORK:

Item #1	Additional meetings, coordination and reporting with the geotechnical subconsultant
Item #2	Additional design effort to incorporate the replacement of the basketball court located in the park and drainage systems for the playground and basketball court, including additional coordination, meetings and reviews with the Department of Public Works Parks Department
Item #3	Additional public outreach meetings

COST OF CHANGE ORDER NO. 1:

Item #1, 2, 3	$64,650.00

THE TOTAL COST OF CHANGE ORDER NO 1: $64,650.00

WHEREAS: In Item No. 31, on June 26, 2024 the Board approved the Authorization to Enter Into An Agreement with Wendel Companies, Inc., For Professional Engineering Services; and

WHEREAS: The Principal Sanitary Engineer and staff have reviewed a request for Change Order No. 1 to Contract No. 82000082 in the amount of $64,650.00 as detailed above and recommend its approval.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves Change Order No. 1 to Contract No. 82000082 as written in the above Agenda Item, increasing the contract cost in the amount of $64,650.00, making the adjusted contract cost $353,650.00. Expenses from this contract will be funded from Account No. 02000587-432004.

MOTION TO REMOVE FROM TABLE

MADE BY MR. SOLE

2ND BY DR. CAULFIELD

AYES 5 NOES 0

Board Meeting of May 28, 2025

ITEM NO. 15

CHANGE ORDER NO. 1 – CONTRACT NO. 82000082

CONTRACTOR:
Wendel WD Architecture, Engineering,
Surveying & Landscape Architecture P.C
375 Essjay Road Suite 200
Williamsville, NY 14221

ORIGINAL CONTRACT COST	$289,000.00
THIS CHANGE ORDER	$64,650.00
ADJUSTED CONTRACT COST	$353,650.00

VENDOR# 10683 ACCOUNT# 02000587-432004

WORK: Hennepin Park Green Infrastructure

DESCRIPTION OF CHANGE OR EXTRA WORK:

Item #1 Four additional stakeholder coordination with Buffalo Niagara Regional Transportation Council, City of Buffalo Department of Public Works, and community members.

Item #2 Advance three (3) soil borings, utilizing hollow stem augers, to an estimated depth of 16 feet each, or to practical refusal, whichever is less.

Perform soil sampling and Standard Penetration Testing (SPT), Sampling will be performed continuously throughout the full depth of the borings.

Install groundwater monitoring well within each of the three boreholes. The wells will be constructed with 2-inch PVC slotted screen and riser pipe. A flush-mounted cover will be installed at the surface of each well. Obtain water level depth measurements at approximate 6 week intervals for one year.

Reporting Prepare a Data Report to include the following:

- Boring Location Plan and Site Location Map
- Description of subsurface investigation and sampling methodology
- Description of subsurface soil and groundwater conditions
- Computer-generated soil boring logs with laboratory classifications, subsurface stratigraphy, SPT observations, and groundwater observations
- Laboratory test results
- Summary of groundwater depth measurements with a recommended design groundwater elevation

Item #3 Additional design effort to incorporate the replacement of the basketball court located in the park and appurtenances associated with the replacement including:

▪ Layout for basketball court including dimensions and striping.
▪ Grading and drainage for court to be conveyed to proposed underground stormwater system.

Coordination, meetings and reviews with Parks Department on improvements.

▪ Preparation of technical specifications.
▪ Preparation of opinion of probable cost estimate.
▪ Review of submittals for court appurtenances

Item #4 — Additional design effort to incorporate playground improvements

- Design of drainage system to accommodate request for improvements to existing playground area located in the central portion of the park.
- Incorporation of runoff into drainage model.
- Coordination, meetings and reviews with Department of Public Works

Item #5 — Preparation of required additional drawings, technical specifications, and engineer's estimate.

REASON FOR CHANGE OR EXTRA WORK:

Item #1 — Consultant's attendance at four additional stakeholder meetings with the Buffalo Niagara Regional Transportation Council to ensure public buy-in and coordination with other infrastructure investments are required together with preparation for and documentation of these meetings.

Item #2 — Groundwater monitoring wells and additional soil borings are required to establish seasonal changes, the ability of the subsurface to retain additional groundwater and the need to drain surplus groundwater to ensure intended recreational use of the park can be enhanced.

Item #3 — Additional design effort to incorporate the replacement of the basketball court located in the park and drainage systems for the playground and basketball court, including additional coordination, meetings and reviews with the City of Buffalo Department of Public Works are required to ensure the system is maintained long-term and provides a sustainable community benefit.

Item #4 — Advanced design of drainage system to accommodate improvements to playground area, incorporation of runoff into drainage model, and preparation of cost estimate for work together with coordination regarding advanced design with the City of Buffalo Department of Public Works is similarly required to ensure project serves community needs and provides a long-term stormwater management need.

Item #5 — Preparation of additional final drawings, specifications, final estimate and incorporation of City of Buffalo Department of Public Works comments into these documents is also required for this additional work.

COST OF CHANGE ORDER NO. 1:

Item #1	$5,000.00
Item #2	$11,500.00
Item #3	$33,500.00
Item #4	$10,150.00
Item #5	$4,500.00

THE TOTAL COST OF CHANGE ORDER NO 1: $64,650.00

WHEREAS: The Board of the Buffalo Sewer Authority pre-qualified engineering, landscape architecture, urban design, and planning firms for delivery of green infrastructure capital improvement projects on September 30, 2020, in preparation for the issuance of the Environmental Impact Bond; and

WHEREAS: In Item No. 31, on June 26, 2024, the Board approved the Authorization to enter into an Agreement with Wendel Companies, Inc., for Professional Engineering Services for the design of Hennepin Park Green Infrastructure as work under this pre-qualification; and

WHEREAS: In response to a request for a change order proposal on the basis of additional work identified through the preliminary and detailed design phase from Buffalo Sewer Authority and the Green Infrastructure Program Manager, Stantec, Wendel Companies, Inc. provided a proposal in the amount of $64,650.00 as detailed above; and

WHEREAS: The Principal Sanitary Engineer and staff have reviewed a request for Change Order No. 1 to Contract No. 82000082 in the amount of $64,650.00 as detailed above and recommend its approval.

WHEREAS: Due to time constraints, members of the Board were individually polled on May 8, 2025, and authorized acceptance of this proposal; and

WHEREAS: It is now necessary to formally ratify that authorization.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves Change Order No. 1 to Contract No. 82000082 as written in the above Agenda Item, increasing the contract cost in the amount of $64,650.00, making the adjusted contract cost $353,650.00. Expenses from this contract will be funded from Account No. 02000587-432004.

MOTION TO APPROVE

MADE BY DR. CAULFIELD

2ND BY MS. YOUNG - WATKINS

AYES 5 NOES 0

Board Meeting of May 28, 2025

ITEM NO. 16

CHANGE ORDER NO. 1 – CONTRACT NO. 82000069

CONTRACTOR:		
Watts Architecture & Engineering D.P.C.	ORIGINAL CONTRACT COST	$635,379.00
95 Perry Street Suite 300	THIS CHANGE ORDER	$666,423.47
Buffalo, NY 14203	ADJUSTED CONTRACT COST	$1,301,802.47

WORK: Smart Sewer & Water Replacement Phase II (Fillmore District)

DESCRIPTION OF CHANGE OR EXTRA WORK:

Item #1	Smart Sewer & Water Replacement Phase II (Fillmore District)
Item #2	Parks Package 2
Item #3	Parks Package 3
Item #4	Right-of-Way Package 7

REASON FOR CHANGE OR EXTRA WORK:

Item #1	The original scope of the Smart Sewer & Water Replacement Phase II (Fillmore District) has been modified.
Item #2	The consultant will perform professional engineering services for the Green Infrastructure Parks Package 2 Project under the Environmental Impact Bond Rain Check 2.0 Program.
Item #3	The consultant will perform professional engineering services for the Green Infrastructure Parks Package 3 Project under the Environmental Impact Bond Rain Check 2.0 Program.
Item #4	The consultant will perform professional engineering services for the Green Infrastructure Right-of-Way Package 7 Project under the Environmental Impact Bond Rain Check 2.0 Program.

COST OF CHANGE ORDER NO. 1:

Item #1	($625,581.53)
Item #2	$301,400.00
Item #3	$625,350.00
Item #4	$365,255.00

THE TOTAL COST OF CHANGE ORDER NO 1: $666,423.47

WHEREAS: In Item No. 22, on July 26, 2023 the Board approved the Authorization to Enter Into An Agreement with Watts Architecture & Engineering D.P.C., For Professional Engineering Services; and

WHEREAS: The Principal Sanitary Engineer and staff have reviewed a request for Change Order No. 1 to Contract No. 82000096 in the amount of $666,423.47 as detailed above and recommend its approval.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves Change Order No. 1 to Contract No. 82000096 as written in the above Agenda Item, increasing the contract cost in the amount of $666,423.47, making the adjusted contract cost $1,301,802.47. Expenses from this contract will be funded from Account No. 02000572-432004.

MOTION TO REMOVE FROM TABLE

MADE BY MR. SOLE

2ND BY DR. CAULFIELD

AYES 5 NOES 0

Board Meeting of May 28, 2025

ITEM NO. 17

CHANGE ORDER NO. 1 – CONTRACT NO. 82000069

CONTRACTOR:		
Watts Architecture & Engineering D.P.C.	ORIGINAL CONTRACT COST	$635,379.00
95 Perry Street Suite 300	THIS CHANGE ORDER	$666,423.47
Buffalo, NY 14203	ADJUSTED CONTRACT COST	$1,301,802.47
VENDOR #1107	ACCOUNT #02000572-432004	

WORK: Smart Sewer & Water Replacement Phase II (Fillmore District)

DESCRIPTION OF CHANGE OR EXTRA WORK:

Item #1	Removal of Fillmore District (Smart Sewer & Water Replacement Phase II) Design: Howard Street from Fillmore Avenue to Coit Street and Oneida Street from Lord Street to Emslie Street from Scope of Work
Item #2	Addition of Professional Engineering Services for the preliminary and detailed design including survey, geotechnical, community outreach, and permitting, bidding phase services, and construction phase services for Parks Package 2 (Eddie Dawson Park, Genesee Gateway Triangle, Lincoln Park, and Martin Luther King Jr. Park)
Item #3	Addition of Professional Engineering Services for the preliminary and detailed design including survey, geotechnical, community outreach, and permitting, bidding phase services, and construction phase services for Parks Package 3 (Glenny Park, Schiller Park, Mary Jane Sloan Park, and Hank Nowak Park)
Item #4	Addition of Professional Engineering Services for the preliminary and detailed design including survey, geotechnical, community outreach, and permitting, bidding phase services, and construction phase services for public Right-of-Way Package 7 (Appendix C)

REASON FOR CHANGE OR EXTRA WORK:

Item #1	The original scope of work was found to be infeasible without significant supplemental funding to the Environmental Impact Bond (EIB) due to the limited impervious surface capture and high cost of construction relative to this capture, a stop work order was therefore issued for this work shortly after it had commenced, however, Watts was still determined to be one of the few qualified engineering firms able to provide green infrastructure designs under the EIB and it was therefore useful to keep funding allocated to this contract.

Item #2	Design phase through construction phase engineering services are required for Parks Package 2 in furtherance of a $8.75 million New York State Environmental Facilities Corporation Green Resiliency Grant to manage 5.5 acres of impervious surfaces within park lands and abate localized flooding using Environmental Impact Bond funding for a local match and Watts has been identified as the best available consultant for this work.
Item #3	Design phase through construction phase engineering services are required for Parks Package 3 to manage 4.8 acres of impervious surfaces within park lands and abate localized flooding using Environmental Impact Bond funding and Watts has been identified as the best available consultant for this work.
Item #4	Watts, a registered Minority Owned Business with offices in the City of Buffalo has expressed availability and been deemed competent to provide professional engineering services for the management of 12.6 acres of impervious surface utilizing green infrastructure within the public right-of-way in furtherance of the Environmental Impact Bond.

COST OF CHANGE ORDER NO. 1:

Item #1	($625,581.53)
Item #2	$301,400.00
Item #3	$365,255.00
Item #4	$625,350.00

THE TOTAL COST OF CHANGE ORDER NO 1: $666,423.47

WHEREAS: On May 16, 2019, the Buffalo Sewer Authority issued the RainCheck 2.0 Opportunity Report identifying six combined sanitary sewage and stormwater discharge points and contributing areas (combined sewersheds) in which the treatment and detention of stormwater from 200 acres of impervious surface should be prioritized; and

WHEREAS: On June 1, 2020, the Buffalo Sewer Authority issued a request for qualifications (RFQ) based on the RainCheck 2.0 Opportunity Report for professional services for landscape architecture, engineering, architecture, planning, urban design, and other related fields; and

WHEREAS: A total of fifty firms replied to the RFQ by July 1, 2020, and the qualifications of each to provide these various services were reviewed and rated by a selection committee appointed by the General Manger; and

WHEREAS: The Board of the Buffalo Sewer Authority approved the qualifications for twenty-two firms to provide various professional services in association with RainCheck 2.0 and the management of 200 acres of impervious surface within the six designated combined sewersheds on September 30, 2020; and

WHEREAS: Among the twenty-two firms so designated, AKRF, Arcadis, Stantec, Watts, and Wendel Companies have been found to have capacity to provide professional engineering design services at this time; and

WHEREAS: Arcadis has been designated as the third-party verifier for all work completed under this authorization and is therefore unable to provide professional engineering design services for the RainCheck 2.0 scope of work; and

WHEREAS: On June 3, 2021, the Board of the Buffalo Sewer Authority approved the issuance of the Environmental Impact Bond (EIB) which required the completion of 200 acres of impervious surface management utilizing green infrastructure as specified in the RainCheck 2.0 report by June 15, 2028 to ensure best terms for this bond; and

WHEREAS: In Item No. 22, on July 26, 2023 the Board approved the Authorization to Enter Into An Agreement with Watts for Professional Engineering Services for Removal of Fillmore District (Smart Sewer & Water Replacement Phase II) Design: Howard Street from Fillmore Avenue to Coit Street and Oneida Street from Lord Street to Emslie Street with the intention being to use American Rescue Plan Act (ARPA) funds to conduct comprehensive water and wastewater utility replacements together with installation of porous pavement; and

Shortly after finalization of the contract with Watts for professional engineering services, Buffalo Sewer Authority was informed by the City of Buffalo that ARPA funds would not be provided to the Authority for this work and evaluation of the impervious area capture provided by this work relative to the cost of construction would not meet the terms of the EIB and a stop work order was issued; and

WHEREAS: The Buffalo Sewer Authority together with Stantec as Green Infrastructure Program Manager have determined that a total of fourteen work packages including one for projects within the Buffalo Municipal Housing Authority's sites, three for projects within City of Buffalo Parks, one within The Buffalo Public Schools' properties, and nine for projects within the City of Buffalo public right of way of various streets upon completion of construction will meet the terms of the EIB and the intent of the RainCheck 2.0 report; and

WHEREAS: Watts was asked to submit a proposal for delivery of professional engineering services in support of the Parks Packages 2 and 3 sites and the Right-of-Way Package 7 sites which upon completion are estimated to manage a total of approximately 22.9 acres of impervious surface within public areas throughout the six combined sewersheds identified in the RainCheck 2.0 report; and

WHEREAS: Watts submitted a proposal for Change Order #1 to Contract No. 82000069 in the amount of $666,423.47 as detailed above; and

WHEREAS: Stantec and the Principal Sanitary Engineer and staff have reviewed this proposal and recommend its approval.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves Change Order No. 1 to Contract No. 82000096 as written in the above Agenda Item, increasing the contract cost in the amount of $666,423.47, making the adjusted contract cost $1,301,802.47. Expenses from this contract will be funded from Account No. 02000572-432004.

MOTION TO APPROVE

MADE BY DR. CAULFIELD

2ND BY MS. YOUNG – WATKINS

AYES 5 NOES 0

Board Meeting of May 28, 2025

ITEM NO. 18

CHANGE ORDER NO. 1 – CONTRACT NO. 82000071

CONTRACTOR:		
AKRF, Inc.	ORIGINAL CONTRACT COST	$635,894.00
440 Park Avenue South	THIS CHANGE ORDER	$1,628,681.00
New York, NY 10016	ADJUSTED CONTRACT COST	$2,264,575.00

WORK: Smart Sewer & Water Replacement Phase III (Lovejoy District)

DESCRIPTION OF CHANGE OR EXTRA WORK:

Item #1	Smart Sewer & Water Replacement Phase III (Lovejoy District)
Item #2	Buffalo Municipal Housing Authority (BMHA) Package

REASON FOR CHANGE OR EXTRA WORK:

Item #1	The original scope of the Smart Sewer & Water Replacement Phase III (Lovejoy District) has been modified.
Item #2	The consultant will perform professional engineering services for the Green Infrastructure BMHA Package Project under the Environmental Impact Bond Rain Check 2.0 Program.

COST OF CHANGE ORDER NO. 1:

Item #1	($635,894.00)
Item #2	$2,264,575.00

THE TOTAL COST OF CHANGE ORDER NO 1: $1,628,681.00

WHEREAS: In Item No. 23, on July 26, 2023 the Board approved the Authorization to Enter Into An Agreement with AKRF, Inc., For Professional Engineering Services; and

WHEREAS: The Principal Sanitary Engineer and staff have reviewed a request for Change Order No. 1 to Contract No. 82000071 in the amount of $1,628,681.00 as detailed above and recommend its approval.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves Change Order No. 1 to Contract No. 82000071 as written in the above Agenda Item, increasing the contract cost in the amount of $1,628,681.00, making the adjusted contract cost $2,264,575.00. Expenses from this contract will be funded from Account No. 02000573-432004.

MOTION TO REMOVE FROM TABLE

MADE BY MS .YOUNG - WATKINS

2ND BY DR. CAULFIELD

AYES 5 NOES 0

Board Meeting of May 28, 2025

ITEM NO. 19

CHANGE ORDER NO. 1 – CONTRACT NO. 82000071

CONTRACTOR:		
AKRF, Inc.	ORIGINAL CONTRACT COST	$635,894.00
440 Park Avenue South	THIS CHANGE ORDER	$1,628,681.00
New York, NY 10016	ADJUSTED CONTRACT COST	$2,264,575.00

VENDOR# 3600 ACCOUNT # 02000573-432004

WORK: Smart Sewer & Water Replacement Phase III (Lovejoy District)

DESCRIPTION OF CHANGE OR EXTRA WORK:

Item #1	Removal of Lovejoy District (Smart Sewer & Water Replacement Phase III) Design: Academy Road from Walden Avenue to Doat Street and Wex Avenue from West Shore Avenue to Walden Avenue from Scope of Work
Item #2	Addition of Project Management and Coordination for Buffalo Municipal Housing Authority (BMHA) sites (Ferry Grider and Kenfield/Langfield) and the surrounding public right of way providing for approximately 38.1 acres of impervious surface capture
Item #3	Addition of Survey and Utility Location for BMHA sites
Item #4	Addition of Geotechnical Investigation for BMHA sites
Item #5	Addition of State Environmental Quality Review for BMHA sites
Item #6	Addition of Interim and Final Design including Permitting Services for BMHA sites
Item #7	Addition of Bidding and Pre-Construction Services for BMHA sites
Item #8	Addition of Construction Phase Services for BMHA sites
Item #9	Contingency for Additional Professional Engineering Services for BMHA sites

REASON FOR CHANGE OR EXTRA WORK:

Item #1	The original scope of work was found to be infeasible without significant supplemental funding to the Environmental Impact Bond (EIB) due to the high cost of construction relative to the impervious area capture and a stop work order was therefore issued for this work; and

Item #2 After the infeasibility of the original scope of work was identified, a new scope of work for the installation of green infrastructure improvements including porous asphalt and stormwater tree trenches within BMHA properties was identified and project management and coordination services were identified as a necessary component of this new work; and

Item #3 To ensure conflicts with underground public and private utilities are properly identified early in design, ground penetrating radar, topographic, and utility survey services were identified as being a necessary component of the BMHA green infrastructure engineering work; and

Item #4 To ensure the proper functionality of the proposed green infrastructure improvements within the BMHA sites, it is necessary to conduct geotechnical investigations to establish the level of the existing groundwater table, bedrock level, and the ability of the soil to absorb water; and

Item #5 State Environmental Quality Review is required under New York State law for the scope of work proposed for the BMHA sites; and

Item #6 Interim and final design including permitting services for the BMHA sites will provide for the ability to issue bid documents to potential contractors in accordance with public procurement laws and have been identified as a necessary component of these new engineering services; and

Item #7 Bidding services for the BMHA sites will provide for issuance of plans and specifications for bidding, attendance at a public bid opening, review of bids for completeness and conformance, and recommendation for award together with a certified bid tabulation and have been identified as a necessary component of these new engineering services; and

Item #8 Construction phase service for the BMHA sites will include the review of shop drawings, requests for information, and change order requests from the construction contractors and have been identified as necessary services; and

Item #9 It is expected that there may be some unanticipated engineering services associated with the BMHA sites.

COST OF CHANGE ORDER NO. 1:

Item #1	($635,894.00)
Item #2	$48,200.00
Item #3	$284,660.00
Item #4	$158,821.00
Item #5	$19,600.00
Item #6	$1,560,248.00
Item #7	$25,210.00
Item #8	$50,000.00
Item #9	$117,836.00

THE TOTAL COST OF CHANGE ORDER NO 1: $1,628,681.00

WHEREAS: On May 16, 2019, the Buffalo Sewer Authority issued the RainCheck 2.0 Opportunity Report identifying six combined sanitary sewage and stormwater discharge points and contributing areas (combined sewersheds) in which the treatment and detention of stormwater from 200 acres of impervious surface should be prioritized; and

WHEREAS: On June 1, 2020, the Buffalo Sewer Authority issued a request for qualifications (RFQ) based on the RainCheck 2.0 Opportunity Report for professional services for landscape architecture, engineering, architecture, planning, urban design, and other related fields; and

WHEREAS: A total of fifty firms replied to the RFQ by July 1, 2020, and the qualifications of each to provide these various services were reviewed and rated by a selection committee appointed by the General Manger; and

WHEREAS: The Board of the Buffalo Sewer Authority approved the qualifications for twenty-two firms to provide various professional services in association with RainCheck 2.0 and the management of 200 acres of impervious surface within the six designated combined sewersheds on September 30, 2020; and

WHEREAS: Among the twenty-two firms so designated, AKRF, Arcadis, Stantec, Watts, and Wendel Companies have been found to have capacity to provide professional engineering design services at this time; and

WHEREAS: Arcadis has been designated as the third-party verifier for all work completed under this authorization and is therefore unable to provide professional engineering design services for the RainCheck 2.0 scope of work; and

WHEREAS: On June 3, 2021, the Board of the Buffalo Sewer Authority approved the issuance of the Environmental Impact Bond (EIB) which required the completion of 200 acres of impervious surface management utilizing green infrastructure as specified in the RainCheck 2.0 report by June 15, 2028 to ensure best terms for this bond; and

WHEREAS: In Item No. 23, on July 26, 2023 the Board approved the Authorization to Enter Into An Agreement with AKRF, Inc., for Professional Engineering Services for Lovejoy District (Smart Sewer & Water Replacement Phase III) Design: Academy Road from Walden Avenue to Doat Street and Wex Avenue from West Shore Avenue to Walden Avenue with the intention being to use American Rescue Plan Act (ARPA) funds to conduct comprehensive water and wastewater utility replacements together with installation of porous pavement; and

Shortly after finalization of the contract with AKRF, Inc for professional engineering services, Buffalo Sewer Authority was informed by the City of Buffalo that ARPA funds would not be provided to the Authority for this

work and evaluation of the impervious area capture provided by this work relative to the cost of construction would not meet the terms of the EIB and a stop work order was issued; and

WHEREAS: The Buffalo Sewer Authority together with Stantec as Green Infrastructure Program Manager have determined that a total of fourteen work packages including one for projects within the Buffalo Municipal Housing Authority's sites, three for projects within City of Buffalo Parks, one within The Buffalo Public Schools' properties, and nine for projects within the City of Buffalo public right of way of various streets upon completion of construction will meet the terms of the EIB and the intent of the RainCheck 2.0 report; and

WHEREAS: AKRF was asked to submit a proposal for delivery of professional engineering services in support of the BMHA sites which upon completion are estimated to manage a total of approximately 38.1 acres of impervious surface at the Ferry Grider and Kenfield/Langfield properties; and

WHEREAS: AKRF submitted a proposal for Change Order #1 to Contract No. 82000071 in the amount of $1,628,681.00 as detailed above and;

WHEREAS: Stantec and the Principal Sanitary Engineer and staff have reviewed this proposal and recommend its approval.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves Change Order No. 1 to Contract No. 82000071 as written in the above Agenda Item, increasing the contract cost in the amount of $1,628,681.00, making the adjusted contract cost $2,264,575.00. Expenses from this contract will be funded from Account No. 02000573-432004.

MOTION TO APPROVE

MADE BY MR. SOLE

2ND BY DR. CAULFIELD

AYES 5 NOES 0

Board Meeting of May 28, 2025

ITEM NO. 20

CHANGE ORDER NO. 1 – CONTRACT NO. 82000080

CONTRACTOR:		
Stantec Consulting Services, Inc.	ORIGINAL CONTRACT COST	$3,270,248.31
1500 Spring Garden Street Suite 1100	THIS CHANGE ORDER	$5,342,040.04
Philadelphia, PA 19130	ADJUSTED CONTRACT COST	$8,612,288.35

WORK: Environmental Impact Bond Support

DESCRIPTION OF CHANGE OR EXTRA WORK:

Item #1	Buffalo Public Schools Package and Right-of-Way Packages 1, 2, 4, 8, and 9
Item #2	Program support services, including environmental review and community engagement

REASON FOR CHANGE OR EXTRA WORK:

Item #1	The consultant will perform professional engineering services for the Green Infrastructure Buffalo Public Schools Package, and Right-of-Way Packages 1, 2, 4, 8, and 9, under the Environmental Impact Bond Rain Check 2.0 Program.
Item #2	The consultant will perform professional engineering services for environmental reviews and will contract with a local community engagement specialist to perform program-wide community outreach.

COST OF CHANGE ORDER NO. 1:

Item #1	$4,874,354.81
Item #2	$ 467,685.23

THE TOTAL COST OF CHANGE ORDER NO 1: $5,342,040.04

WHEREAS:	In Item No. 8, on May 1, 2024 the Board approved the Authorization to Enter Into An Agreement with Stantec Consulting Services, Inc., For Professional Engineering Services;
WHEREAS:	The Principal Sanitary Engineer and staff have reviewed a request for Change Order No. 2 to Contract No. 82000080 in the amount of $5,342,040.04 as detailed above and recommend its approval.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves Change Order No. 1 to Contract No. 82000080 as written in the above Agenda Item, increasing the contract cost in the amount of $5,342,040.04, making the adjusted contract cost $8,612,288.35. Expenses from this contract will be funded from Account No. 02000585-432004.

MOTION TO	REMOVE FROM TABLE
MADE BY	MR. SOLE
2ND BY	MS. YOUNG - WATKINS
AYES	5 NOES 0

Board Meeting of May 28, 2025

ITEM NO. 21

CHANGE ORDER NO. 1 – CONTRACT NO. 82000080

CONTRACTOR:		
Stantec Consulting Services, Inc.	ORIGINAL CONTRACT COST	$3,270,248.31
1500 Spring Garden Street Suite 1100	THIS CHANGE ORDER	$5,342,040.04
Philadelphia, PA 19130	ADJUSTED CONTRACT COST	$8,612,288.35
VENDOR# 12770	ACCOUNT# 02000585-432004	

WORK: Environmental Impact Bond Support

DESCRIPTION OF CHANGE OR EXTRA WORK:

Item #1	Addition of design, bidding and construction administration services for Buffalo Public Schools Package (Attachment E)
Item #2	Addition of design, bidding and construction administration services for City of Buffalo Right-of-Way Package 1 (Attachment D)
Item #3	Addition of design, bidding and construction administration services for City of Buffalo Right-of-Way Package 2 (Attachment D)
Item #4	Addition of design, bidding and construction administration services for City of Buffalo Right-of-Way Package 4 (See Attachment D)
Item #5	Addition of design, bidding and construction administration services for City of Buffalo Right-of-Way Package 8 (See Attachment D)
Item #6	Addition of design, bidding and construction administration services for City of Buffalo Right-of-Way Package 9 (See Attachment D)
Item #7	Addition of Program-wide Grant Application, Compliance Management, and Coordination services
Item #8	Addition of Program-wide State Environmental Quality Review Act (SEQR) Review services
Item #9	Addition of Community Outreach services

REASON FOR CHANGE OR EXTRA WORK:

Item #1	In ensuring the terms of the Environmental Impact Bond including the capture of 200 acres of impervious surface through the use of Green

Infrastructure on public lands, Stantec identified 24.7 acres of potential capture as listed in Attachment E using Buffalo Public Schools lands within the designated six sewersheds and has demonstrated capacity and expertise to design and oversee the construction of this work according to the timeline laid out in the Environmental Impact Bond and of those pre-qualified firms so designated previously by the Board of the Buffalo Sewer Authority is uniquely qualified to do so.

Item #2

In ensuring the terms of the Environmental Impact Bond including the capture of 200 acres of impervious surface through the use of Green Infrastructure on public lands, Stantec identified 18.1 acres of potential capture as listed in Attachment D using the Public Right-of-Ways in and around the Masten Park and Hamlin Park areas of the City of Buffalo (Right-of-Way Package 1) and has demonstrated capacity and expertise to design and oversee the construction of this work according to the timeline laid out in the Environmental Impact Bond and of those pre-qualified firms so designated previously by the Board of the Buffalo Sewer Authority is uniquely qualified to do so.

Item #3

In ensuring the terms of the Environmental Impact Bond including the capture of 200 acres of impervious surface through the use of Green Infrastructure on public lands, Stantec identified 13.2 acres of potential capture as listed in Attachment D using the Public Right-of-Ways in and around the Delavan-Grider and Northland Avenue areas of the City of Buffalo (Right-of-Way Package 2) and has demonstrated capacity and expertise to design and oversee the construction of this work according to the timeline laid out in the Environmental Impact Bond and of those pre-qualified firms so designated previously by the Board of the Buffalo Sewer Authority is uniquely qualified to do so.

Item #4

In ensuring the terms of the Environmental Impact Bond including the capture of 200 acres of impervious surface through the use of Green Infrastructure on public lands, Stantec identified 10.4 acres of potential capture as listed in Attachment D using the Public Right-of-Ways in and around the University Heights areas of the City of Buffalo (Right-of-Way Package 4) and has demonstrated capacity and expertise to design and oversee the construction of this work according to the timeline laid out in the Environmental Impact Bond and of those pre-qualified firms so designated previously by the Board of the Buffalo Sewer Authority is uniquely qualified to do so.

Item #5

In ensuring the terms of the Environmental Impact Bond including the capture of 200 acres of impervious surface through the use of Green Infrastructure on public lands, Stantec identified 15.4 acres of potential capture as listed in Attachment D using the Public Right-of-Ways in the vicinity of the Central Terminal (Right-of-Way Package 8) and has demonstrated capacity and expertise to design and oversee the construction of this work according to the timeline laid out in the Environmental Impact Bond and of those pre-qualified firms so

designated previously by the Board of the Buffalo Sewer Authority is uniquely qualified to do so.

Item #6

In ensuring the terms of the Environmental Impact Bond including the capture of 200 acres of impervious surface through the use of Green Infrastructure on public lands, Stantec identified 9.8 acres of potential capture as listed in Attachment D using the Public Right-of-Ways within the Lovejoy and Seneca-Babcock neighborhoods (Right-of-Way Package 9) and has demonstrated capacity and expertise to design and oversee the construction of this work according to the timeline laid out in the Environmental Impact Bond and of those pre-qualified firms so designated previously by the Board of the Buffalo Sewer Authority is uniquely qualified to do so.

Item #7

Due to inflationary forces, the use of grant funding to supplement the existing Environmental Impact Bond has been determined to be necessary and both the bond and the grants have significant compliance requirements that require coordination with regulatory agencies, other consultants, and Buffalo Sewer Authority staff additionally, as part of the program management services coordination with other public agencies including the City of Buffalo Department of Public Works, the Buffalo Municipal Housing Authority, and Buffalo Public Schools is required.

Item #8 — Due to the size, scope and impact of the RainCheck 2.0 Program, State Environmental Quality Review Act compliance is required for the program as a whole identifying each of the individual sites and their impacts.

Item #9 — Throughout design and construction, public meetings, notification flyers, and community events alerting community members to the work being done in their neighborhoods, receiving comments, providing education, and creating opportunities to engage and ensure the long-term viability of this work is required.

COST OF CHANGE ORDER NO. 1:

Item #1	$1,328,560.79
Item #2	$709,904.53
Item #3	$658,581.66
Item #4	$673,541.07
Item #5	$606,890.45
Item #6	$622,376.31
Item #7	$379,500.00
Item #8	$87,389.00
Item #9	$275,296.23

THE TOTAL COST OF CHANGE ORDER NO 1: $5,342,040.04

WHEREAS: On May 16, 2019, the Buffalo Sewer Authority issued the RainCheck 2.0 Opportunity Report identifying six combined sanitary sewage and stormwater discharge points and contributing areas (combined sewersheds) in which the treatment and detention of stormwater from 200 acres of impervious surface should be prioritized; and

WHEREAS: On June 1, 2020, the Buffalo Sewer Authority issued a request for qualifications (RFQ) based on the RainCheck 2.0 Opportunity Report for professional services for landscape architecture, engineering, architecture, planning, urban design, and other related fields; and

WHEREAS: A total of fifty firms replied to the RFQ by July 1, 2020, and the qualifications of each to provide these various services were reviewed and rated by a selection committee appointed by the General Manger; and

WHEREAS: The Board of the Buffalo Sewer Authority approved the qualifications for twenty-two firms to provide various professional services in association with RainCheck 2.0 and the management of 200 acres of impervious surface within the six designated combined sewersheds on September 30, 2020; and

WHEREAS: Among the twenty-two firms so designated, AKRF, Arcadis, Stantec, Watts, and Wendel Companies have been found to have capacity to provide professional engineering design services at this time; and

WHEREAS: Arcadis has been designated as the third-party verifier for all work completed under this authorization and is therefore unable to provide professional engineering design services for the RainCheck 2.0 scope of work; and

WHEREAS: On June 3, 2021, the Board of the Buffalo Sewer Authority approved the issuance of the Environmental Impact Bond (EIB) which required the completion of 200 acres of impervious surface management utilizing green infrastructure as specified in the RainCheck 2.0 report by June 15, 2028 to ensure best terms for this bond; and

WHEREAS: The Board of the Buffalo Sewer Authority pre-qualified engineering, landscape architecture, urban design, and planning firms for delivery of green infrastructure capital improvement projects on September 30, 2020, in preparation for the issuance of the Environmental Impact Bond; and

WHEREAS: In Item No. 8, on May 1, 2024 the Board approved the Authorization to Enter Into An Agreement with Stantec Consulting Services, Inc., For Professional Engineering Services, specifically the development of plans for the full 200 acres of impervious surface capture and program management through construction for the overall project; and

WHEREAS: Upon query with other pre-qualified firms it was found that they had limited capacity to fulfill the scope of work under the timeline required and a significant portion of the work would need to be allocated to Stantec for

preliminary and final design services and construction phase project management; and

WHEREAS: The Principal Sanitary Engineer and staff have reviewed a request for Change Order No. 1 to Contract No. 82000080 in the amount of $5,342,040.04 as detailed above and recommend its approval.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves Change Order No. 1 to Contract No. 82000080 as written in the above Agenda Item, increasing the contract cost in the amount of $5,342,040.04, making the adjusted contract cost $8,612,288.35. Expenses from this contract will be funded from Account No. 02000585-432004.

MOTION TO APPROVE

MADE BY MR. SOLE

2ND BY MR. ROOSEVELT

AYES 5 NOES 0

Board Meeting of May 28, 2025

ITEM NO. 22

AUTHORIZATION TO ENTER INTO AN AGREEMENT WITH WENDEL COMPANIES, INC., FOR PROFESSIONAL ENGINEERING SERVICES

WHEREAS: The Buffalo Sewer Authority issued a request for qualifications (RFQ) for the purposes of prequalifying various firms for delivery of green infrastructure capital improvement projects and approved these entities on September 30, 2020; and

WHEREAS: Wendel Companies, Inc., submitted a proposal for delivery of professional engineering services in support of the Green Infrastructure Right-of-Way Package 3, Right-of-Way Package 5 and Right-of-Way Package 6 Projects under the Environmental Impact Bond Rain Check 2.0 Program; and

WHEREAS: Based upon the review of the Principal Sanitary Engineer and staff, it is recommended to proceed with the proposal and scope of work for professional services at an agreed upon cost not to exceed $1,691,250.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to execute an agreement with Wendel Companies, Inc. to provide professional engineering services at a cost not to exceed $1,691,250.00. The cost of this contract will be funded from account no. 02000595-432004.

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MOTION TO REMOVE FROM TABLE

MADE BY DR. CAULFIELD

2ND BY MR. ROOSEVELT

AYES 5 NOES 0

Board Meeting of May 28, 2025

ITEM NO. 23

AUTHORIZATION TO ENTER INTO AN AGREEMENT WITH WENDEL COMPANIES, INC., FOR PROFESSIONAL ENGINEERING SERVICES

WHEREAS: On May 16, 2019, the Buffalo Sewer Authority issued the RainCheck 2.0 Opportunity Report identifying six combined sanitary sewage and stormwater discharge points and contributing areas (combined sewersheds) in which the treatment and detention of stormwater from 200 acres of impervious surface should be prioritized; and

WHEREAS: On June 1, 2020, the Buffalo Sewer Authority issued a request for qualifications (RFQ) based on the RainCheck 2.0 Opportunity Report for professional services for landscape architecture, engineering, architecture, planning, urban design, and other related fields; and

WHEREAS: A total of fifty firms replied to the RFQ by July 1, 2020, and the qualifications of each to provide these various services were reviewed and rated by a selection committee appointed by the General Manger; and

WHEREAS: The Board of the Buffalo Sewer Authority approved the qualifications for twenty-two firms to provide various professional services in association with RainCheck 2.0 and the management of 200 acres of impervious surface within the six designated combined sewersheds on September 30, 2020; and

WHEREAS: Among the twenty-two firms so designated, AKRF, Arcadis, Stantec, Watts, and Wendel Companies have been found to have capacity to provide professional engineering design services at this time; and

WHEREAS: Arcadis has been designated as the third-party verifier for all work completed under this authorization and is therefore unable to provide professional engineering design services for the RainCheck 2.0 scope of work; and

WHEREAS: On June 3, 2021 the Board of the Buffalo Sewer Authority approved the issuance of the Environmental Impact Bond (EIB) which required the completion of 200 acres of impervious surface management utilizing green infrastructure as specified in the RainCheck 2.0 report by June 15, 2028 to ensure best terms for this bond; and

WHEREAS: The Buffalo Sewer Authority together with Stantec as Green Infrastructure Program Manager have determined that a total of fourteen work packages including one for projects within the Buffalo Municipal Housing Authority's sites, three for projects within City of Buffalo Parks, one within The Buffalo Public Schools' properties, and nine for projects within the City of Buffalo public right of way of various streets upon completion of construction will meet the terms of the EIB and the intent of the RainCheck 2.0 report; and

WHEREAS: Upon discussions with each of the firms with current capacity, Wendel Companies, Inc., was asked to submit a proposal for delivery of professional engineering services in support of the City Right-of-Way Packages 3, 5, and 6

which upon completion are estimated to manage a total of approximately 39.5 acres of impervious surface as detailed in Attachment B; and

WHEREAS: Based upon the review of the Principal Sanitary Engineer and staff, and upon recommendation of Stantec, it is recommended to proceed with the proposal and scope of work for professional services at an agreed upon cost not to exceed $1,691,250.00 for all three packages.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Principal Sanitary Engineer and Executive Secretary to execute an agreement with Wendel Companies, Inc. to provide professional engineering services at a cost not to exceed $1,691,250.00. The cost of this contract will be funded from account no. 02000595-432004.

MOTION TO APPROVE

MADE BY DR. CAULFIELD

2ND BY MR. ROOSEVELT

AYES 5 NOES 0

Board Meeting of May 28, 2025

ITEM NO. 24

AUTHORIZATION TO ENTER INTO AN ENGINEERING SERVICES AGREEMENT WITH AECOM CONSULTING, INC. FOR DESIGN OF THE ROOSEVELT PARK OFFLINE STORAGE FACILITY

WHEREAS: The Buffalo Sewer Authority (BSA) has negotiated with the United States Environmental Protection Agency, the United States Department of Justice and the New York State Department of Environmental Conservation to address sewer system improvements to comply with the Federal Clean Water Act through the Combined Sewer Overflow Long-Term Control Plan which was approved by the agencies on March 18, 2014; and

WHEREAS: On November 1, 2023, the Board of the BSA was notified of the Draft Public Participation Plan for a Revised Combined Sewer Overflow Long-Term Control Plan "Queen City Clean Waters" reflecting updated model results and technological advances; and

WHEREAS: On October 1, 2024, Buffalo Sewer Authority was notified that a deadline of one year for implementation of the Public Participation Plan had commenced and that while this was ongoing it was expected that projects with deadlines within this time period being proposed in the Public Participation Plan would be ongoing; and

WHEREAS: On January 31, 2025, the Buffalo Sewer Authority issued a request for proposals (RFP) for the Roosevelt Park Offline Storage Facility; and

WHEREAS: This facility will consist of a new remotely operated and activated gates, a 30,000 square foot below grade tank, flushing system, and influent and effluent piping connected to the existing Edison Street sewer; and

WHEREAS: Five (5) design teams submitted proposals for this project in response to the publicly available and publicized RFP; and

WHEREAS: A consultant selection committee appointed by the Principal Sanitary Engineer and Executive Secretary reviewed the submitted proposals and interviewed each team and ranked the firms on the basis of both their interviews and proposals; and

WHEREAS: The Principal Sanitary Engineer and committee recommend contracting with AECOM USA, Inc. for these services as detailed in their proposal of March 11, 2025, at a cost not to exceed $1,848,450.00 for professional engineering services associated with the Roosevelt Park Offline Storage Facility.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Principal Sanitary Engineer and Executive Secretary to enter into and execute a contract with AECOM USA, Inc., pursuant to their proposal to design the recommended Roosevelt Park Offline Storage Facility at a cost not to exceed $1,848,450.00. Funds for this contract shall be charged to the Construction Fund account no. 02000597-432004.

MOTION TO APPROVE

MADE BY DR. CAULFIELD

2ND BY MR. ROOSEVELT

AYES 5 NOES 0

Board Meeting of May 28, 2025

ITEM NO. 25

AUTHORIZATION TO ENTER INTO AN ENGINEERING SERVICES AGREEMENT WITH CHA CONSULTING, INC. FOR DESIGN OF THE SIDNEY-LARK INLINE STORAGE FACILITY

WHEREAS: The Buffalo Sewer Authority (BSA) has negotiated with the United States Environmental Protection Agency, the United States Department of Justice and the New York State Department of Environmental Conservation to address sewer system improvements to comply with the Federal Clean Water Act through the Combined Sewer Overflow Long-Term Control Plan which was approved by the agencies on March 18, 2014; and

WHEREAS: On November 1, 2023, the Board of the BSA was notified of the Draft Public Participation Plan for a Revised Combined Sewer Overflow Long-Term Control Plan "Queen City Clean Waters" reflecting updated model results and technological advances; and

WHEREAS: On October 1, 2024, Buffalo Sewer Authority was notified that a deadline of one year for implementation of the Public Participation Plan had commenced and that while this was ongoing it was expected that projects with deadlines within this time period being proposed in the Public Participation Plan would be ongoing; and

WHEREAS: On January 31, 2025, the Buffalo Sewer Authority issued a request for proposals (RFP) for the Sidney-Lark Inline Storage Facility; and

WHEREAS: This facility will consist of a new remotely operated and activated gate structure, a new 7-foot diameter 1000-foot-long sewer, and a 50-foot-deep drop shaft to the existing Scajaquada Tunnel; and

WHEREAS: This work will be conducted in close proximity to the NY-33 Kensington Expressway, existing 100-year-old plus homes, and the location in which three construction workers under contract with Buffalo Sewer Authority, Charles Anderson, Donald Herron, and J.E. Collins died during the construction of the Scajaquada Tunnel on June 3, 1980; and

WHEREAS: Four (4) design teams submitted proposals for this project in response to the publicly available and publicized RFP; and

WHEREAS: A consultant selection committee appointed by the Principal Sanitary Engineer and Executive Secretary reviewed the submitted proposals and interviewed each team and ranked the firms on the basis of both their interviews and proposals; and; and

WHEREAS: The Principal Sanitary Engineer and committee recommend contracting with CHA Consulting, Inc. for these services as detailed in their proposal of March 11, 2025, at a cost not to exceed $3,270,000.00 for professional engineering services associated with the Sidney-Lark Inline Storage Facility.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Principal Sanitary Engineer and Executive Secretary to enter into and execute a contract with CHA Consulting, Inc., pursuant to their proposal to design the recommended Sidney-Lark Inline Storage Facility at a cost not to exceed $3,270,000.00. Funds for this contract shall be charged to the Construction Fund account no. 02000596-432004.

MOTION TO	APPROVE
MADE BY	DR. CAULFIELD
2ND BY	MR. SOLE
AYES	5 NOES 0

Board Meeting of May 28, 2025

ITEM NO. 26

MUNICIPAL RESOLUTION AUTHORIZING GRANTAPPLICATION AND EXECUTION OF AGREEMENTS FOR FINANCIAL ASSISTANCE

WHEREAS: The New York State Department of Environmental Conservation (DEC), New York State Environmental Facilities Corporation (EFC), New York State Energy Research & Development Authority (NYSERDA), Federal Emergency Management Agency (FEMA), and the United States Environmental Protection Agency (USEPA) provide funding for projects that improve water quality, save energy, increase resiliency, and reduce the impacts of climate change through various grant and low and/or no-interest loan programs; and

WHEREAS: The Board of the Buffalo Sewer Authority has authorized the General Manager of the Buffalo Sewer Authority to enter into various and numerous grant, bonding, and loan agreements with these entities to fund capital and operational projects; and

WHEREAS: It is in the best interest of the Buffalo Sewer Authority and its ratepayers to continue to pursue agreements and receive reimbursement and favorable financing; and

WHEREAS: The By-Laws of the Board of the Buffalo Sewer Authority state in part, "the Principal Sanitary Engineer and the Executive Secretary shall jointly perform the duties and exercise the powers of the General Manager, as more particularly provided herein, in the event that the office of General Manager is vacant…"; and

WHEREAS: The office of the General Manager became vacant on January 1, 2025; and

WHEREAS: The General Counsel of the Buffalo Sewer Authority recommends that the Principal Sanitary Engineer and the Executive Secretary be formally authorized to execute and deliver grant, bonding, and loan applications and contracts and related documents on behalf of the Buffalo Sewer Authority so long as the General Manager's office remains vacant.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to execute and deliver a grant application for State and Federal Assistance funding through loan, bonding, and grant programs that may be deemed prudent and to execute and deliver any contract and any other documents necessary to receive funding through these grant, loan, and bonding programs and to provide such additional information as may be required and to make such agreements on behalf of the Buffalo Sewer Authority.

MOTION TO APPROVE

MADE BY DR. CAULFIELD

2ND BY MS. YOUNG – WATKINS

AYES 5 NOES 0

Board Meeting of May 28, 2025

CERTIFICATE

I, Christopher Roosevelt, Vice Chairman of the Buffalo Sewer Authority in the County of Erie, State of New York, HEREBY CERTIFY that the foregoing annexed extract from the Minutes of a meeting of the Board of Directors of said Authority, duly called and held on May 28, 2025, and at which a quorum was present and acting throughout and the resolution contained therein is a true and complete copy of the resolution thereupon adopted and recorded in the Minutes of said Authority and that the foregoing extract has been compared by me with the original minutes as officially recorded in my office in the Minute Book of said Authority and is a true, complete and correct copy thereof and of the whole of said original minutes so far as the same relate to the subject matters referred to in said extract, and that said resolution has not been amended or repealed but is in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the corporate seal of said Authority this _____ day of _____, 2025.

(SEAL)

_____
Christopher Roosevelt, Vice Chairman

ITEM NO.27

AUTHORIZATION TO PROVIDE REQUIRED MINIMUM LOCAL MATCH FUNDING FOR THE ENVIRONMENTAL FACILITIES CORPORATION 2024 GREEN RESILIENCY GRANT AWARD

WHEREAS: The Buffalo Sewer Authority (BSA) has negotiated with the United States Environmental Protection Agency, the United States Department of Justice and the New York State Department of Environmental Conservation to address sewer system improvements to comply with the Federal Clean Water Act through the Combined Sewer Overflow Long-Term Control Plan (LTCP) which was approved by the agencies on March 18, 2014; and

WHEREAS: The Rain Check 2.0 Program was created to achieve the goals of the LTCP by expanding green infrastructure in Buffalo, reducing stormwater runoff, protecting public health, incorporating equity considerations in decision-making, and maximizing the economic, social, and environmental benefits that come with implementing green infrastructure; and

WHEREAS: An application for funding under the Green Resiliency Grant (GRG) program was submitted in August 2024, to support the construction of planned green infrastructure under the Rain Check 2.0 Program, and was awarded by the Environmental Facilities Corporation (EFC) on October 18, 2024, with a total funding amount of $8,750,000.00; and

WHEREAS: The Grant requires a minimum local matching share equal to a minimum of 10 percent of the total eligible project costs, as cash, administrative and/or technical force account, materials and equipment, or volunteer labor by qualified individuals, which was identified as being provided by the Buffalo Sewer Authority at the time that the application was submitted; and

WHEREAS: The Grant requires a resolution authorizing a representative, by title, to execute the Grant Agreement and any and all other contracts, documents, and instruments necessary to bring about the project and to fulfill the obligations under the Grant Agreement; and

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to provide the required minimum local match for the Environmental Facilities Corporation Green Resiliency Grant, at a total cost not to exceed $972,222.00. Expenses for this Grant Match will be charged to account no. 02000539-432004 utilizing the Environmental Impact Bond;

NOW THEREFORE
BE IT FURTHER
RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Principal Sanitary Engineer to act as a representative of the Buffalo Sewer Authority, to execute the Grant Agreement, and any and all other contracts, documents, and instruments necessary to bring about the project and to fulfil the obligations under the Grant Agreement.

MOTION TO APPROVE

MADE BY MS. YOUNG – WATKINS

2ND BY DR. CAULFIELD

AYES 5 NOES 0

Board Meeting of May 28, 2025

ITEM NO. 28

ADJOURNMENT OF MEETING

MOTION TO ADJOURN

MADE BY DR. CAULFIELD

2ND BY MS. YOUNG- WATKINS

AYES 5 NOES 0

Board Meeting of May 28, 2025

BUFFALO
SEWER AUTHORITY

ATTACHMENT F

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: Delavan Trunk Sewer Improvements Project		
Project Location (describe, and attach a general location map): City of Buffalo		
Brief Description of Proposed Action (include purpose or need): The Buffalo Sewer Authority (the Authority) owns, operates, and maintains the combined sewage collection system within the City of Buffalo, New York. The Authority's Combined Sewer Overflow Long-Term Control Plan (LTCP) was approved by the New York State Department of Environmental Conservation (NYSDEC) and the USEPA in 2014. The LTCP is a multi-year strategy to implement projects to reduce overflows within the Authority's sewer collection system and to ensure that the system reaches target conditions for compliance with the water quality requirements of the federal Clean Water Act. To meet these goals, the Authority is proposing the Delavan Trunk Sewer Improvements Project (the proposed project), which involves upgrades to the Authority's sewer collection system along Florida Street and Spillman Place to control combined sewer overflow (CSO) discharges to Scajaquada Creek. The proposed action consists of two alternatives. Alternative A includes construction and operation of an offline 1.5 Million Gallon deep storage tank located below the Canisius University Surface Parking Lot and an associated above grade building to provide access to supporting electrical equipment and an HVAC vault. Alternative B features an offline 14-ft diameter storage tunnel along with an above grade building for housing electrical equipment and access to supporting tunnel infrastructure.		
Name of Applicant/Sponsor: Buffalo Sewer Authority	Telephone: E-Mail:	
Address: 65 Niagara Square, City Hall Room 1038		
City/PO: Buffalo	State: New York	Zip Code: 14202
Project Contact (if not same as sponsor; give name and title/role): Rosaleen B. Nogle, PE, BCEE, BC.WRE, Principal Sanitary Engineer	Telephone: (716) 851-4664 E-Mail: rnogle@buffalosewer.org	
Address: 65 Niagara Square, City Hall Room 1038		
City/PO: Buffalo	State: New York	Zip Code: 14202
Property Owner (if not same as sponsor): Same as sponsor	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Council, Town Board, or Village Board of Trustees ☐Yes ☑No		
b. City, Town or Village Planning Board or Commission ☐Yes ☑No		
c. City, Town or Village Zoning Board of Appeals ☑Yes ☐No	City of Buffalo: Special Use Permit	Spring 2025
d. Other local agencies ☑Yes ☐No	City of Buffalo Bureau of Forestry Tree Work Permit; Building Permits	Summer 2025 through Winter 2026
e. County agencies ☑Yes ☐No	Erie County Department of Health - Sewer/Wastewater/Construction Permitting	Summer 2025 through Winter 2026
f. Regional agencies ☐Yes ☑No		
g. State agencies ☑Yes ☐No	See Attachment A	Spring 2025 through Winter 2026
h. Federal agencies ☐Yes ☑No		

i. Coastal Resources.

i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? ☐Yes ☑No

ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? ☐Yes ☑No

iii. Is the project site within a Coastal Erosion Hazard Area? ☐Yes ☑No

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? ☐Yes ☑No

- **If Yes,** complete sections C, F and G.
- **If No,** proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? ☑Yes ☐No
See Attachment A for more information.

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? ☐Yes ☑No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) ☑Yes ☐No

If Yes, identify the plan(s):

NYS Heritage Areas: West Erie Canal Corridor

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? ☐Yes ☑No

If Yes, identify the plan(s):

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☑ Yes ☐ No
If Yes, what is the zoning classification(s) including any applicable overlay district?
Zoning for Alternative A is Educational Campus (D-E), Zoning for Alternative B is Educational Campus and Residential (N-3R)

b. Is the use permitted or allowed by a special or conditional use permit? ☑ Yes ☐ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☑ No
If Yes,
i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? Ferry District as per the Erie County Board of Elections February 2017

b. What police or other public protection forces serve the project site?
The site is served by Buffalo's Police District E.

c. Which fire protection and emergency medical services serve the project site?
Buffalo Fire Department Engine 33 Quarters, ECMC Health Campus - Erie County Medical Center

d. What parks serve the project site?
Delaware Park

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Retention of combined sewer flow during storm events to reduce CSO's in accordance with BSA's LTCP.

b. a. Total acreage of the site of the proposed action? see Attachment acres
b. Total acreage to be physically disturbed? see Attachment A acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? see Attachment A acres

c. Is the proposed action an expansion of an existing project or use? ☐ Yes ☑ No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☑ No
If Yes,
i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)
_____
ii. Is a cluster/conservation layout proposed? ☐ Yes ☐ No
iii. Number of lots proposed? _____
iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will the proposed action be constructed in multiple phases? ☐ Yes ☑ No
i. If No, anticipated period of construction: _____ months **Alternative A: 24 months** **Alternative B: 36 months**
ii. If Yes:
- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____year
- Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

f. Does the project include new residential uses? ☐ Yes ☑ No

If Yes, show numbers of units proposed.

	One Family	Two Family	Three Family	Multiple Family (four or more)
Initial Phase				
At completion of all phases				

g. Does the proposed action include new non-residential construction (including expansions)? ☑ Yes ☐ No

If Yes,

i. Total number of structures 1

ii. Dimensions (in feet) of largest proposed structure: 10 ft height; 10 ft width; and 20 ft length

iii. Approximate extent of building space to be heated or cooled: 0 square feet

This above ground facility would be constructed for both Alternatives A and B.

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☐ Yes ☑ No

If Yes,

i. Purpose of the impoundment: _____

ii. If a water impoundment, the principal source of the water: ☐ Ground water ☐ Surface water streams ☐ Other specify:

_____

iii. If other than water, identify the type of impounded/contained liquids and their source.

_____

iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres

v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete):

_____

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? ☑ Yes ☐ No
(Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite)

If Yes:

i .What is the purpose of the excavation or dredging? See Attachment A

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): See Attachment A
- Over what duration of time? See Attachment A

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.

See Attachment A

_____

iv. Will there be onsite dewatering or processing of excavated materials? ☑ Yes ☐ No

If yes, describe. See Attachment A

_____

v. What is the total area to be dredged or excavated? See Attachment A acres

vi. What is the maximum area to be worked at any one time? See Attachment A acres

vii. What would be the maximum depth of excavation or dredging? See Attachment A feet

viii. Will the excavation require blasting? ☑ Yes ☐ No

ix. Summarize site reclamation goals and plan: _____

Any temporarily disturbed areas would be restored to their existing conditions for both Alternatives A and B (i.e., roadway and sidewalk repair, grass reseeding, etc.). A tree work permit including any tree removals and/or tree plantings will be obtained in accordance with the requirements of the City of Buffalo Bureau of Forestry.

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? ☐ Yes ☑ No

If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____

_____

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

_____

_____

_____

_____

iii. Will the proposed action cause or result in disturbance to bottom sediments? ☐Yes ☐No

If Yes, describe: _____

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? ☐Yes ☐No

If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion: _____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____

_____

- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

_____

c. Will the proposed action use, or create a new demand for water? ☐Yes ☑No

If Yes:

i. Total anticipated water usage/demand per day: _____ gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☐Yes ☐No

If Yes:

- Name of district or service area: _____
- Does the existing public water supply have capacity to serve the proposal? ☐Yes ☐No
- Is the project site in the existing district? ☐Yes ☐No
- Is expansion of the district needed? ☐Yes ☐No
- Do existing lines serve the project site? ☐Yes ☐No

iii. Will line extension within an existing district be necessary to supply the project? ☐Yes ☐No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

_____

- Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐Yes ☐No

If, Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

_____

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☐Yes ☑No

If Yes:

i. Total anticipated liquid waste generation per day: _____ gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

_____

_____

iii. Will the proposed action use any existing public wastewater treatment facilities? ☐Yes ☐No

If Yes:

- Name of wastewater treatment plant to be used: _____
- Name of district: _____
- Does the existing wastewater treatment plant have capacity to serve the project? ☐Yes ☐No
- Is the project site in the existing district? ☐Yes ☐No
- Is expansion of the district needed? ☐Yes ☐No

- Do existing sewer lines serve the project site? ☐Yes ☐No
- Will a line extension within an existing district be necessary to serve the project? ☐Yes ☐No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

_____

_____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? ☐Yes ☑No

If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

_____

_____

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

_____

_____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? ☑Yes ☐No

If Yes:

i. How much impervious surface will the project create in relation to total size of project parcel?

0 Square feet or 0 acres (impervious surface)

0 Square feet or 0 acres (parcel size)

ii. Describe types of new point sources. The proposed action will not create any impervious surface that is not already existing. Stormwater controls and a Stormwater Pollution Prevention Plan will be in place to support construction activties for both Alts.

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

The stormwater runoff will be directed to the local sewer system.

_____

- If to surface waters, identify receiving water bodies or wetlands: _____

N/A

_____

- Will stormwater runoff flow to adjacent properties? ☐Yes ☑No

iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? ☑Yes ☐No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? ☑Yes ☐No

If Yes, identify:

i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

N/A

ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

Yes , generators, dewatering pumps, and a temporary water treatment plant to treat groundwater dewatering effluent for both Alternatives A and B.

iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

N/A

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? ☐Yes ☑No

If Yes:

i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) ☐Yes ☐No

ii. In addition to emissions as calculated in the application, the project will generate:

- _____Tons/year (short tons) of Carbon Dioxide (CO_2)
- _____Tons/year (short tons) of Nitrous Oxide (N_2O)
- _____Tons/year (short tons) of Perfluorocarbons (PFCs)
- _____Tons/year (short tons) of Sulfur Hexafluoride (SF_6)
- _____Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)
- _____Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? ☐Yes ☑No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

_____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? ☐Yes ☑No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):

_____

_____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? ☐Yes ☑No

A traffic study is being conducted to assess temporary traffic changes such as lane closures during construction, there will be no increase nor changes to traffic during operation.

If Yes:

i. When is the peak traffic expected (Check all that apply): ☐ Morning ☐ Evening ☐Weekend

☐ Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____

_____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? ☐Yes ☐No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe:

_____

vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? ☐Yes ☐No

vii Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? ☐Yes ☐No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? ☐Yes ☐No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? ☐Yes ☑No

Minor equipment will be powered through the existing electrical grid to support operation of Alternatives A and B.

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____

_____

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other):

_____

iii. Will the proposed action require a new, or an upgrade, to an existing substation? ☐Yes ☑No

l. Hours of operation. Answer all items which apply.

i. During Construction:

- Monday - Friday: 7 AM- 9 PM, See Attachment A
- Saturday: N/A
- Sunday: N/A
- Holidays: N/A

ii. During Operations:

- Monday - Friday: N/A
- Saturday: N/A
- Sunday: N/A
- Holidays: N/A

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? ☑ Yes ☐ No

If yes:

i. Provide details including sources, time of day and duration:

Noise above ambient level will occur during construction hours (M-F 7am-9pm). A noise study is being completed for both Alternative A and B to adequately assess noise levels. No additional noise will occur during operation, noise levels would remain the same as existing conditions.

ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? ☑ Yes ☐ No

Describe: Alternative A will not require any removal of natural barriers, however Alternative B will include a tree work permit since tree removals and/or tree plantings will be required as part of the project.

n. Will the proposed action have outdoor lighting? ☐ Yes ☑ No

Minimal lighting will be required to maintain security around the electrical building.

If yes:

i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? ☐ Yes ☑ No

Describe:

o. Does the proposed action have the potential to produce odors for more than one hour per day? ☑ Yes ☐ No

If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures:

See Attachment A

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? ☑ Yes ☐ No

If Yes:

i. Product(s) to be stored petroleum to power generators during construction

ii. Volume(s) TBD per unit time TBD (e.g., month, year)

iii. Generally, describe the proposed storage facilities:

Storage will be in accordance with all applicable regulations with provisions for secondary containment.

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ☐ Yes ☑ No

If Yes:

i. Describe proposed treatment(s):

ii. Will the proposed action use Integrated Pest Management Practices? ☐ Yes ☐ No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? ☑ Yes ☐ No

If Yes:

i. Describe any solid waste(s) to be generated during construction or operation of the facility:

- Construction: _____ tons per _____ (unit of time)
- Operation : N/A tons per N/A (unit of time)

A small quantity of refuse would be generated by the construction site workers and this refuse would be disposed as normal waste by the contractor

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction: Approximately 33,000 tons of soil to be excavated along with above numbers. Excavated soils may be reused onsite or sent to a beneficial reuse facility.
- Operation: N/A

iii. Proposed disposal methods/facilities for solid waste generated on-site:

- Construction: Other construction/demo wastes not reused on site through beneficial reuse are assumed to be sent to a landfill or recycling facility.
- Operation: N/A

s. Does the proposed action include construction or modification of a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☑ Yes ☐ No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

A Phase 1 Environmental Site Assessment will be completed and additional sampling will be completed, as necessary, to characterize potential hazardous wastes that may be encountered. Hazardous materials encountered as part of the projectwill be properly handled and disposed of offsite.

ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

See response above.

iii. Specify amount to be handled or generated TBD tons/month **See response above.**

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

TBD

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☑ Yes ☐ No

If Yes: provide name and location of facility: _____

CWM Chemical Services Hazardous Waste Facility, 625 Broadway, Albany, NY 12233

If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

_____

_____

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site.

☑ Urban ☐ Industrial ☐ Commercial ☐ Residential (suburban) ☐ Rural (non-farm)

☐ Forest ☐ Agriculture ☐ Aquatic ☑ Other (specify): Educational Campus and Residential

ii. If mix of uses, generally describe:

Alternative A is on a education campus parking lot and Alternative B is beneath the E Delavan Avenue right-of-way. Surrounding land uses for both Alternative A and B are residential areas, a park, and mixed-use areas.

b. Land uses and covertypes on the project site.

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	Alt A= 0.64, Alt B= 0.94	Alt A= 0.64, Alt B= 0.94	0
• Forested	0	0	0
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	0	0	0
• Agricultural (includes active orchards, field, greenhouse etc.)	0	0	0
• Surface water features (lakes, ponds, streams, rivers, etc.)	0	0	0
• Wetlands (freshwater or tidal)	0	0	0
• Non-vegetated (bare rock, earth or fill)	0	0	0
• Other Describe: _____ _____			

c. Is the project site presently used by members of the community for public recreation? ☐ Yes ☑ No

i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? ☑ Yes ☐ No

If Yes,

i. Identify Facilities:

Public School 17, Buffalo Elementary School, Canisius University

e. Does the project site contain an existing dam? ☐ Yes ☑ No

If Yes:

i. Dimensions of the dam and impoundment:

- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____

iii. Provide date and summarize results of last inspection:

_____

_____

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Has the facility been formally closed? ☐ Yes ☐ No

- If yes, cite sources/documentation: _____

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

_____

_____

iii. Describe any development constraints due to the prior solid waste activities: _____

_____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

_____

_____

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? ☑ Yes ☐ No

A desktop review as well as a field assessment will be completed at a later date as needed.

If Yes:

i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: ☐ Yes ☐ No

☐ Yes – Spills Incidents database Provide DEC ID number(s): _____

☐ Yes – Environmental Site Remediation database Provide DEC ID number(s): _____

☐ Neither database

ii. If site has been subject of RCRA corrective activities, describe control measures:_____

_____

_____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? ☑ Yes ☐ No

If yes, provide DEC ID number(s): 915378, C915343, C915272, 915278, C915306

iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

Information of status of identified sites will be discussed in the Phase 1 Environmental Site Assessment for the project for both Alternatives A and B.

_____

v. Is the project site subject to an institutional control limiting property uses? ☐ Yes ☑ No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? ☐ Yes ☑ No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? _____ feet **See Attachment A**

b. Are there bedrock outcroppings on the project site? ☐ Yes ☑ No
If Yes, what proportion of the site is comprised of bedrock outcroppings? _____%

c. Predominant soil type(s) present on project site: _____ _____% **See Attachment A**
_____ _____%
_____ _____%

d. What is the average depth to the water table on the project site? Average: _____ feet **See Attachment A**

e. Drainage status of project site soils: ☐ Well Drained: _____% of site **See Attachment A**
☐ Moderately Well Drained: _____% of site
☐ Poorly Drained _____% of site

f. Approximate proportion of proposed action site with slopes: ☐ 0-10%: _____% of site **See Attachment A**
☐ 10-15%: _____% of site
☐ 15% or greater: _____% of site

g. Are there any unique geologic features on the project site? ☐ Yes ☑ No
If Yes, describe: _____

h. Surface water features.
i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☑ Yes ☐ No
ii. Do any wetlands or other waterbodies adjoin the project site? ☑ Yes ☐ No
If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.
iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☑ Yes ☐ No
iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name 837-117 Classification C
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name Federal Waters Approximate Size R4SBC
- Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☑ Yes ☐ No
If yes, name of impaired water body/bodies and basis for listing as impaired: **The response below was automated by EAF Mapper**
Name - Pollutants - Uses:Scajaquada Creek, Middle, and tribs – Pathogens;Nutrients;D.O./Oxygen Demand;Aesthetics – Recreation;A...

i. Is the project site in a designated Floodway? ☐ Yes ☑ No

j. Is the project site in the 100-year Floodplain? ☐ Yes ☑ No

k. Is the project site in the 500-year Floodplain? ☐ Yes ☑ No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☐ Yes ☑ No
If Yes:
i. Name of aquifer: _____

m. Identify the predominant wildlife species that occupy or use the project site:
See Attachment B, applies for both Alternatives

n. Does the project site contain a designated significant natural community? ☐ Yes ☑ No
If Yes:
i. Describe the habitat/community (composition, function, and basis for designation): _____
ii. Source(s) of description or evaluation: _____
iii. Extent of community/habitat:
- Currently: _____ acres
- Following completion of project as proposed: _____ acres
- Gain or loss (indicate + or -): _____ acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☑ Yes ☐ No

If Yes:
i. Species and listing (endangered or threatened): Northern Long-eared Bat, Tricolored Bat, Salamander Mussel, Monarch Butterfly

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☐ Yes ☑ No

If Yes:
i. Species and listing: _____

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☐ Yes ☑ No
If yes, give a brief description of how the proposed action may affect that use: _____

E.3. Designated Public Resources On or Near Project Site

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☐ Yes ☑ No
If Yes, provide county plus district name/number: _____

b. Are agricultural lands consisting of highly productive soils present? ☐ Yes ☑ No
i. If Yes: acreage(s) on project site? _____
ii. Source(s) of soil rating(s): _____

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐ Yes ☑ No
If Yes:
i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature
ii. Provide brief description of landmark, including values behind designation and approximate size/extent: _____

d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? ☐ Yes ☑ No
If Yes:
i. CEA name: _____
ii. Basis for designation: _____
iii. Designating agency and date: _____

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? ☑ Yes ☐ No

If Yes:

i. Nature of historic/archaeological resource: ☐ Archaeological Site ☑ Historic Building or District

ii. Name: Christ of King Chapel, Canisius College Campus, Buffalo Black Drama Workshop

iii. Brief description of attributes on which listing is based:

f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? ☑ Yes ☐ No

g. Have additional archaeological or historic site(s) or resources been identified on the project site? ☐ Yes ☑ No

If Yes:

i. Describe possible resource(s): While the project site does not have any historic resources, the Hamlin Park Historic District is east of the site.

ii. Basis for identification:

h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? ☑ Yes ☐ No

If Yes:

i. Identify resource: Forest Lawn Cemetery, Delaware Park,

ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): Local cemetery and park

iii. Distance between project and resource: 0.1 miles.

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? ☐ Yes ☑ No

If Yes:

i. Identify the name of the river and its designation:

ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? ☐ Yes ☐ No

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

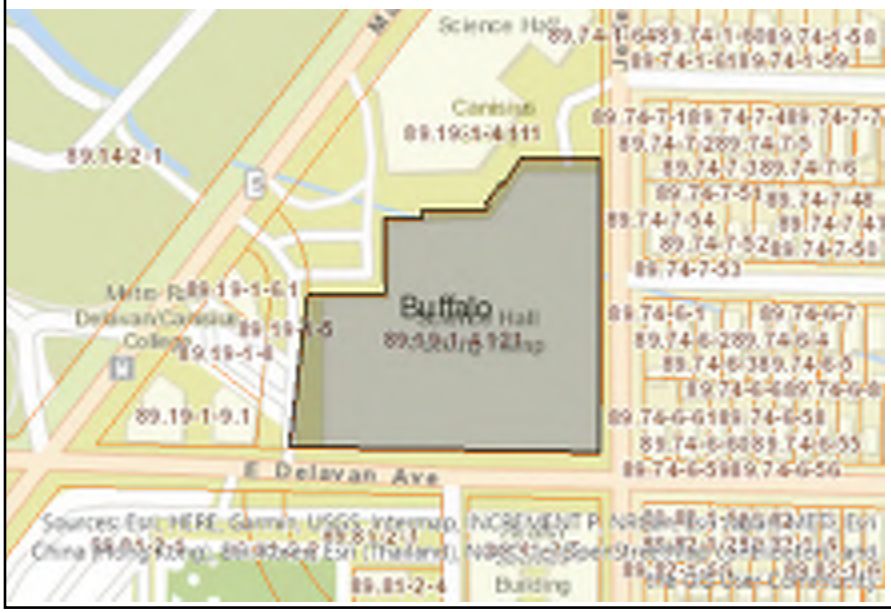
Applicant/Sponsor Name _____ Date_____

Signature_____ Title_____

PRINT FORM

EAF Mapper Summary Report

Tuesday, June 4, 2024 3:51 PM



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.

B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Yes - Digital mapping data are not available for all Special Planning Districts. Refer to EAF Workbook.
C.2.b. [Special Planning District - Name]	NYS Heritage Areas:West Erie Canal Corridor
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	Yes
E.1.h.iii [Within 2,000' of DEC Remediation Site - DEC ID]	C915306, C915378
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	Yes
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.iv [Surface Water Features - Stream Name]	837-117
E.2.h.iv [Surface Water Features - Stream Classification]	C
E.2.h.iv [Surface Water Features - Wetlands Name]	Federal Waters
E.2.h.v [Impaired Water Bodies]	Yes

E.2.h.v [Impaired Water Bodies - Name and Basis for Listing]	Name - Pollutants - Uses:Scajaquada Creek, Middle, and tribs – Pathogens;Nutrients;D.O./Oxygen Demand;Aesthetics – Recreation;Aquatic Life
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	No
E.2.k. [500 Year Floodplain]	No
E.2.l. [Aquifers]	No
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	No
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Yes - Digital mapping data for archaeological site boundaries are not available. Refer to EAF Workbook.
E.3.e.ii [National or State Register of Historic Places or State Eligible Sites - Name]	, Forest Lawn Cemetery, Hamlin Park Historic District
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No

EAF Mapper Summary Report

Tuesday, June 4, 2024 3:54 PM

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B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
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C.2.b. [Special Planning District - Name]	NYS Heritage Areas:West Erie Canal Corridor
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E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	Yes
E.1.h.iii [Within 2,000' of DEC Remediation Site - DEC ID]	C915378, B00083
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	Yes
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.iv [Surface Water Features - Stream Name]	837-117
E.2.h.iv [Surface Water Features - Stream Classification]	C
E.2.h.iv [Surface Water Features - Wetlands Name]	Federal Waters
E.2.h.v [Impaired Water Bodies]	No

E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	No
E.2.k. [500 Year Floodplain]	No
E.2.l. [Aquifers]	No
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	No
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Yes - Digital mapping data for archaeological site boundaries are not available. Refer to EAF Workbook.
E.3.e.ii [National or State Register of Historic Places or State Eligible Sites - Name]	, Forest Lawn Cemetery, Stone Farmhouse, Hamlin Park Historic District
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No

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ATTACHMENT G

SEQR Full Environmental Assessment Form
Part I – Project and Setting
Delavan Trunk Sewer Improvements Project

Attachment A. Supplemental Information

B. Government Approvals

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Council, Town Board, or Village Board of Trustees (Y,**N**)		
b. City, Town or Village Planning Board or Commission (Y,**N**)		
c. City, Town or Village Zoning Board of Appeals (**Y,**N)	City of Buffalo: Special Use Permit	Spring 2025
d. Other local agencies (**Y**,N)	City of Buffalo Bureau of Forestry Tree Work Permit; Building Permits	Summer 2025 through Winter 2026
e. County agencies (**Y**,N)	Erie County Department of Health - Sewer/Wastewater/Construction Permitting	Spring 2025 through Winter 2026
f. Regional agencies (Y,**N**)		
g. State agencies (**Y**,N)	NYNHP– Consultation NYSOPRHP- Consultation NYSEFC – Clean Water State Revolving Fund NYSDEC - SPDES General Permit, Solid Waste Management Facilities Permit, Beneficial Use Permit NYSDOT – Special Hauling Permits	Spring 2025 through Winter 2026
h. Federal agencies (Y,**N**)		

C. Planning and Zoning

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? ***Yes***

Framework for Regional Growth Erie + Niagara Counties, New York (2016)

The Framework for Regional Growth was published in October 2016. The plan describes that there was a gap region-wide for conservation, development, and public investment therefore Erie & Niagara Counties partnered to create a Framework that would be a vision for the region over the next 15 years. The Framework outlines 7 policies: (1) A Vital Economy; (2) Sustainable Neighborhoods; (3) Strong Rural Communities; (4) Improved Access & Mobility; (5) Efficient Systems & Services; (6) Effective Regional Stewardship; and (7) Conserved Natural & Cultural Assets. The proposed action would align with the

policies listed above by supporting the conservation of overall health the Scajaquada Creek since it is a pertinent natural resource within the region.

City of Buffalo Land Use Plan (2016)

The City of Buffalo Land Use Plan was based off the Buffalo Green Code which is a place-based economic development strategy designed to implement the city's Comprehensive Plan. The plan outlines 3 objectives, (1) Grow the Economy; (2) Strengthen Neighborhoods; and (3) Repair the Environment. By reducing combined sewer outflow activations to the Scajaquada Creek, the Proposed Action would support repair of the environment. In addition, a community betterment project is planned in conjunction with the proposed action which may help to meet the objectives of the City of Buffalo Land Use Plan.

City of Buffalo 2020-2024 Consolidated Plan (2020)

The purpose of the Consolidated Plan is to address priority needs involving housing and community development activities which are locally identified by the City. The Plan outlines three main goals which range from providing decent and affordable housing, to providing suitable living environment, and expanding economic opportunities such as job creation. Part of the proposed action includes community betterment initiatives such as sewer lateral replacements from the sewer mains to the City's right-of-way; water service line replacements for all identified lead and galvanized service water lines within the project limits; separation of sanitary sewer and stormwater sewer pipes; and streetscape improvements including landscaping plans, and roadway, curb, and sidewalk pavement replacement within the project limits. Community betterment initiatives may also focus on other projects to expand economic opportunities for the neighborhoods surrounding the project site. These community betterment initiatives would enable improved suitable living environment for surrounding residents around the project site in line with goals of the Consolidated Plan.

City of Buffalo 2023-2027 Four-Year Strategic Plan: Building an Equitable City

The purpose of the Strategic Plan is to help the City of Buffalo in ensuring continued revitalization plans, the Plan focuses on four elements: (1) thriving neighborhoods and people; (2) smart and sustainable infrastructure; (3) climate resilience; and (4) economic opportunities and mobility. The proposed project would support climate resilience by supporting the overall health and environmental conditions of receiving waterbodies such as the Scajaquada Creek over a 20-year period. The community betterment project that will be included as part of the proposed action may offer an opportunity to support economic opportunities and mobility for area residents.

D. Project Details

D.1 Proposed and Potential Development

b. a. Total acreage of the site of the proposed action?

Response: Alternative A would have a total acreage of 0.64 acres, the bulk of which is located below ground.
Alternative B would have a total acreage of 0.94 acres, the bulk of which is located below ground.

b. b. Total acreage to be physically disturbed?

Response: Alternative A would have a total acreage of ground disturbance of 1.42 acres.

Alternative B would have a total acreage of ground disturbance of 1.15 acres.

b. c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?

Response: Any work not located within the right of way of Delavan, Florida and Spillman Avenues is owned by Canisius University and property easement discussions are underway.

e. Will the proposed action be constructed in multiple phases? ***No***

e. i. If No, anticipated period of construction:

Response: Alternative A: 24 months

Alternative B: 36 months

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite) **Yes**

If Yes:

i. What is the purpose of the excavation or dredging?

Response: The purpose for excavation for Alternative A is to construct a deep offline storage tank below the Canisius University Surface Parking Lot. The depth being excavated within the bedrock would be minimized while confirming the storage basin is deep enough to accommodate parking lot site improvements such as landscaping and buried electric conduits. The purpose of the excavation for Alternative B is to excavate below ground to place the 14-feet diameter drill and blast tunnel.

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site? Volume (specify tons or cubic yards):
Response: Alternative A= 23,612 CY, Alternative B = 21,016 CY

Over what duration of time?
Response: Alternative A = 1 year, Alternative B = 2 years

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.
Response: Excavated material will consist of soil, silt, and clay during surface excavation and limestone bedrock. Excavated material will be tested onsite for contamination. All excavated material will be stored and removed from site according to ASTM and sediment/erosion control standards.

iv. Will there be onsite dewatering or processing of excavated materials? ***Yes***

If yes, describe.

v. What is the total area to be dredged or excavated?
Response: Alternative A has a total area of 0.64 acres to be excavated.
Alternative B has a total area of 0.94 acres to be excavated.

vi. What is the maximum area to be worked at any one time?
Response: The maximum area to be worked at Alternative A at any one time is 1.42 acres
The maximum area to be worked at Alternative B at any one time is 1.15 acres.

vii. What would be the maximum depth of excavation or dredging?

Response: The maximum depth of excavation for Alternatives A and B is 55 feet below the ground surface.

viii. *Will the excavation require blasting?*
Response: Both Alternatives A and B will require blasting.

ix. *Summarize site reclamation goals and plan:*
Response: Any temporarily disturbed areas would be restored to its existing conditions for both Alternatives A and B (i.e., roadway and sidewalk repair, grass reseeding, etc.). A tree work permit including any tree removals and/or tree plantings will be required during detailed design in accordance with the requirements of the City of Buffalo Bureau of Forestry.

l. *Hours of Operation*

i. *During Construction: Monday – Friday*
Response: Where appropriate, some activities may require nighttime work to minimize disruptions to traffic due to lane closures that may be required on Delavan to facilitate the proposed action. These work periods will be coordinated with the City of Buffalo.

e. *Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction?* ***Yes***

iv. *Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater?*

Response: The feasibility of minimizing impervious surfaces in the project area will be explored as design of the project advances.

o. *Does the proposed action have the potential to produce odors for more than one hour per day? If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures:*

Response: Sources of odor for both Alternative A and B would facilitate storage of Combined Sewer Flow and there is a potential for odors to be emitted in the vicinity of the project sites. However, an odor control system would be installed for each alternative to reduce the occurrence of nuisance odors. The potential frequency and duration of odor emissions will be determined and disclosed as part of an Odor Control Study for the project.

E. Site and Setting of Proposed Action

E.2. Natural Resources On or Near Project Site

a. *What is the average depth to bedrock on the project site?*
Response: Alternative A: >6.5 feet
Alternative B: >6.5 feet

c. *Predominant soil type(s) present on project site:*
Response: Alternative A

Urban Land	88.1%
Urban Land Cayuga Complex	11.9%

Alternative B	
Urban Land	16.8%
Urban Land Cayuga Complex	67.1%
Urban land-Collamer complex, 1 to 6 percent slopes	16.1%

d. *What is the average depth to the water table on the project site?*

Response: Alternative A: >6.5 feet
Alternative B: >6.5 feet

e. *Drainage status of project site soils:*

Response:

Alternative A	
Well Drained	0%
Moderately Well Drained (X)	**11.9%**
Poorly Drained	0%

Alternative B	
Well Drained	0%
Moderately Well Drained (X)	**83.2%**
Poorly Drained	0%

f. *Approximate proportion of proposed action site with slopes:*

Response:

Alternative A	
0-10% (X)	**11.9%**
10-15%	0%
15% or greater	0%

Alternative B	
0-10% (X)	**83.2%**
10-15%	0%
15% or greater	0%

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ATTACHMENT H

Agency Use Only [If applicable]

Project :

Date :

Full Environmental Assessment Form
Part 2 - Identification of Potential Project Impacts

Part 2 is to be completed by the lead agency. Part 2 is designed to help the lead agency inventory all potential resources that could be affected by a proposed project or action. We recognize that the lead agency's reviewer(s) will not necessarily be environmental professionals. So, the questions are designed to walk a reviewer through the assessment process by providing a series of questions that can be answered using the information found in Part 1. To further assist the lead agency in completing Part 2, the form identifies the most relevant questions in Part 1 that will provide the information needed to answer the Part 2 question. When Part 2 is completed, the lead agency will have identified the relevant environmental areas that may be impacted by the proposed activity.

If the lead agency is a state agency **and** the action is in any Coastal Area, complete the Coastal Assessment Form before proceeding with this assessment.

Tips for completing Part 2:

- Review all of the information provided in Part 1.
- Review any application, maps, supporting materials and the Full EAF Workbook.
- Answer each of the 18 questions in Part 2.
- If you answer "**Yes"** to a numbered question, please complete all the questions that follow in that section.
- If you answer "**No"** to a numbered question, move on to the next numbered question.
- Check appropriate column to indicate the anticipated size of the impact.
- Proposed projects that would exceed a numeric threshold contained in a question should result in the reviewing agency checking the box "Moderate to large impact may occur."
- The reviewer is not expected to be an expert in environmental analysis.
- If you are not sure or undecided about the size of an impact, it may help to review the sub-questions for the general question and consult the workbook.
- When answering a question consider all components of the proposed activity, that is, the "whole action".
- Consider the possibility for long-term and cumulative impacts as well as direct impacts.
- Answer the question in a reasonable manner considering the scale and context of the project.

1. Impact on Land
Proposed action may involve construction on, or physical alteration of, the land surface of the proposed site. (See Part 1. D.1)
If "Yes", answer questions a - j. If "No", move on to Section 2.

☐ NO ☑ YES

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may involve construction on land where depth to water table is less than 3 feet.	E2d	☑	☐
b. The proposed action may involve construction on slopes of 15% or greater.	E2f	☑	☐
c. The proposed action may involve construction on land where bedrock is exposed, or generally within 5 feet of existing ground surface.	E2a	☑	☐
d. The proposed action may involve the excavation and removal of more than 1,000 tons of natural material.	D2a	☐	☑
e. The proposed action may involve construction that continues for more than one year or in multiple phases.	D1e	☐	☑
f. The proposed action may result in increased erosion, whether from physical disturbance or vegetation removal (including from treatment by herbicides).	D2e, D2q	☐	☑
g. The proposed action is, or may be, located within a Coastal Erosion hazard area.	B1i	☑	☐
h. Other impacts: _____ _____		☐	☐

2. Impact on Geological Features

The proposed action may result in the modification or destruction of, or inhibit access to, any unique or unusual land forms on the site (e.g., cliffs, dunes, minerals, fossils, caves). (See Part 1. E.2.g) ☑ NO ☐ YES

If "Yes", answer questions a - c. If "No", move on to Section 3.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Identify the specific land form(s) attached: _____ _____	E2g	□	□
b. The proposed action may affect or is adjacent to a geological feature listed as a registered National Natural Landmark. Specific feature: _____	E3c	□	□
c. Other impacts: _____ _____		□	□

3. Impacts on Surface Water

The proposed action may affect one or more wetlands or other surface water bodies (e.g., streams, rivers, ponds or lakes). (See Part 1. D.2, E.2.h) ☐ NO ☑ YES

If "Yes", answer questions a - l. If "No", move on to Section 4.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may create a new water body.	D2b, D1h	☑	☐
b. The proposed action may result in an increase or decrease of over 10% or more than a 10 acre increase or decrease in the surface area of any body of water.	D2b	☑	☐
c. The proposed action may involve dredging more than 100 cubic yards of material from a wetland or water body.	D2a	☑	☐
d. The proposed action may involve construction within or adjoining a freshwater or tidal wetland, or in the bed or banks of any other water body.	E2h	☑	☐
e. The proposed action may create turbidity in a waterbody, either from upland erosion, runoff or by disturbing bottom sediments.	D2a, D2h	☑	☐
f. The proposed action may include construction of one or more intake(s) for withdrawal of water from surface water.	D2c	☑	☐
g. The proposed action may include construction of one or more outfall(s) for discharge of wastewater to surface water(s).	D2d	☑	☐
h. The proposed action may cause soil erosion, or otherwise create a source of stormwater discharge that may lead to siltation or other degradation of receiving water bodies.	D2e	☑	☐
i. The proposed action may affect the water quality of any water bodies within or downstream of the site of the proposed action.	E2h	☑	☐
j. The proposed action may involve the application of pesticides or herbicides in or around any water body.	D2q, E2h	☑	☐
k. The proposed action may require the construction of new, or expansion of existing, wastewater treatment facilities.	D1a, D2d	☑	☐

l. Other impacts: _____ _____		☐	☐

4. Impact on groundwater

The proposed action may result in new or additional use of ground water, or may have the potential to introduce contaminants to ground water or an aquifer. (See Part 1. D.2.a, D.2.c, D.2.d, D.2.p, D.2.q, D.2.t)

☐ NO ☑ YES

If "Yes", answer questions a - h. If "No", move on to Section 5.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may require new water supply wells, or create additional demand on supplies from existing water supply wells.	D2c	☑	☐
b. Water supply demand from the proposed action may exceed safe and sustainable withdrawal capacity rate of the local supply or aquifer. Cite Source: _____	D2c	☑	☐
c. The proposed action may allow or result in residential uses in areas without water and sewer services.	D1a, D2c	☑	☐
d. The proposed action may include or require wastewater discharged to groundwater.	D2d, E2l	☑	☐
e. The proposed action may result in the construction of water supply wells in locations where groundwater is, or is suspected to be, contaminated.	D2c, E1f, E1g, E1h	☑	☐
f. The proposed action may require the bulk storage of petroleum or chemical products over ground water or an aquifer.	D2p, E2l	☑	☐
g. The proposed action may involve the commercial application of pesticides within 100 feet of potable drinking water or irrigation sources.	E2h, D2q, E2l, D2c	☑	☐
h. Other impacts: The proposed action will require groundwater dewatering for an extended period of time. _____		☑	☐

5. Impact on Flooding

The proposed action may result in development on lands subject to flooding. (See Part 1. E.2)

☑ NO ☐ YES

If "Yes", answer questions a - g. If "No", move on to Section 6.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in development in a designated floodway.	E2i	☐	☐
b. The proposed action may result in development within a 100 year floodplain.	E2j	☐	☐
c. The proposed action may result in development within a 500 year floodplain.	E2k	☐	☐
d. The proposed action may result in, or require, modification of existing drainage patterns.	D2b, D2e	☐	☐
e. The proposed action may change flood water flows that contribute to flooding.	D2b, E2i, E2j, E2k	☐	☐
f. If there is a dam located on the site of the proposed action, is the dam in need of repair, or upgrade?	E1e	☐	☐

g. Other impacts: _____ _____		☐	☐

6. Impacts on Air

The proposed action may include a state regulated air emission source. ☐ NO ☑ YES
(See Part 1. D.2.f., D.2.h, D.2.g)
If "Yes", answer questions a - f. If "No", move on to Section 7.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. If the proposed action requires federal or state air emission permits, the action may also emit one or more greenhouse gases at or above the following levels:			
i. More than 1000 tons/year of carbon dioxide (CO_2)	D2g	☑	☐
ii. More than 3.5 tons/year of nitrous oxide (N_2O)	D2g	☑	☐
iii. More than 1000 tons/year of carbon equivalent of perfluorocarbons (PFCs)	D2g	☑	☐
iv. More than .045 tons/year of sulfur hexafluoride (SF_6)	D2g	☑	☐
v. More than 1000 tons/year of carbon dioxide equivalent of hydrochloroflourocarbons (HFCs) emissions	D2g	☑	☐
vi. 43 tons/year or more of methane	D2h	☑	☐
b. The proposed action may generate 10 tons/year or more of any one designated hazardous air pollutant, or 25 tons/year or more of any combination of such hazardous air pollutants.	D2g	☑	☐
c. The proposed action may require a state air registration, or may produce an emissions rate of total contaminants that may exceed 5 lbs. per hour, or may include a heat source capable of producing more than 10 million BTU's per hour.	D2f, D2g	☑	☐
d. The proposed action may reach 50% of any of the thresholds in "a" through "c", above.	D2g	☑	☐
e. The proposed action may result in the combustion or thermal treatment of more than 1 ton of refuse per hour.	D2s	☑	☐
f. Other impacts: There is the potential to encounter hydrogen sulfide during construction activities. _____		☐	☑

7. Impact on Plants and Animals

The proposed action may result in a loss of flora or fauna. (See Part 1. E.2. m.-q.) ☐ NO ☑ YES
If "Yes", answer questions a - j. If "No", move on to Section 8.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may cause reduction in population or loss of individuals of any threatened or endangered species, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2o	☑	☐
b. The proposed action may result in a reduction or degradation of any habitat used by any rare, threatened or endangered species, as listed by New York State or the federal government.	E2o	☑	☐
c. The proposed action may cause reduction in population, or loss of individuals, of any species of special concern or conservation need, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2p	☑	☐
d. The proposed action may result in a reduction or degradation of any habitat used by any species of special concern and conservation need, as listed by New York State or the Federal government.	E2p	☑	☐

e. The proposed action may diminish the capacity of a registered National Natural Landmark to support the biological community it was established to protect.	E3c	☑	☐
f. The proposed action may result in the removal of, or ground disturbance in, any portion of a designated significant natural community. Source: _____	E2n	☑	☐
g. The proposed action may substantially interfere with nesting/breeding, foraging, or over-wintering habitat for the predominant species that occupy or use the project site.	E2m	☑	☐
h. The proposed action requires the conversion of more than 10 acres of forest, grassland or any other regionally or locally important habitat. Habitat type & information source: _____ _____	E1b	☑	☐
i. Proposed action (commercial, industrial or recreational projects, only) involves use of herbicides or pesticides.	D2q	☑	☐
j. Other impacts: _____ _____		☐	☐

8. Impact on Agricultural Resources

The proposed action may impact agricultural resources. (See Part 1. E.3.a. and b.) ☑ NO ☐ YES

If "Yes", answer questions a - h. If "No", move on to Section 9.

	Relevant Part I Question(s)	**No, or small impact may occur**	**Moderate to large impact may occur**
a. The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System.	E2c, E3b	□	□
b. The proposed action may sever, cross or otherwise limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc).	E1a, Elb	□	□
c. The proposed action may result in the excavation or compaction of the soil profile of active agricultural land.	E3b	□	□
d. The proposed action may irreversibly convert agricultural land to non-agricultural uses, either more than 2.5 acres if located in an Agricultural District, or more than 10 acres if not within an Agricultural District.	E1b, E3a	□	□
e. The proposed action may disrupt or prevent installation of an agricultural land management system.	El a, E1b	□	□
f. The proposed action may result, directly or indirectly, in increased development potential or pressure on farmland.	C2c, C3, D2c, D2d	□	□
g. The proposed project is not consistent with the adopted municipal Farmland Protection Plan.	C2c	□	□
h. Other impacts: _____		□	□

9. Impact on Aesthetic Resources

The land use of the proposed action are obviously different from, or are in sharp contrast to, current land use patterns between the proposed project and a scenic or aesthetic resource. (Part 1. E.1.a, E.1.b, E.3.h.)

☐ NO ☑ YES

If "Yes", answer questions a - g. If "No", go to Section 10.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Proposed action may be visible from any officially designated federal, state, or local scenic or aesthetic resource.	E3h	☑	☐
b. The proposed action may result in the obstruction, elimination or significant screening of one or more officially designated scenic views.	E3h, C2b	☑	☐
c. The proposed action may be visible from publicly accessible vantage points: i. Seasonally (e.g., screened by summer foliage, but visible during other seasons) ii. Year round	E3h	☑ ☑	☐ ☐
d. The situation or activity in which viewers are engaged while viewing the proposed action is: i. Routine travel by residents, including travel to and from work ii. Recreational or tourism based activities	E3h E2q, E1c	☑ ☑	☐ ☐
e. The proposed action may cause a diminishment of the public enjoyment and appreciation of the designated aesthetic resource.	E3h	☑	☐
f. There are similar projects visible within the following distance of the proposed project: 0-1/2 mile ½ -3 mile 3-5 mile 5+ mile	D1a, E1a, D1f, D1g	☑	☐
g. Other impacts: _____ _____		☐	☐

10. Impact on Historic and Archeological Resources

The proposed action may occur in or adjacent to a historic or archaeological resource. (Part 1. E.3.e, f. and g.)

☐ NO ☑ YES

If "Yes", answer questions a - e. If "No", go to Section 11.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may occur wholly or partially within, or substantially contiguous to, any buildings, archaeological site or district which is listed on the National or State Register of Historical Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places.	E3e	☑	☐
b. The proposed action may occur wholly or partially within, or substantially contiguous to, an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory.	E3f	☑	☐
c. The proposed action may occur wholly or partially within, or substantially contiguous to, an archaeological site not included on the NY SHPO inventory. Source: _____	E3g	☑	☐

d. Other impacts: _____ _____		☐	☐
e. If any of the above (a-d) are answered "Moderate to large impact may occur", continue with the following questions to help support conclusions in Part 3:			
i. The proposed action may result in the destruction or alteration of all or part of the site or property.	E3e, E3g, E3f	☐	☐
ii. The proposed action may result in the alteration of the property's setting or integrity.	E3e, E3f, E3g, E1a, E1b	☐	☐
iii. The proposed action may result in the introduction of visual elements which are out of character with the site or property, or may alter its setting.	E3e, E3f, E3g, E3h, C2, C3	☐	☐

11. Impact on Open Space and Recreation

The proposed action may result in a loss of recreational opportunities or a reduction of an open space resource as designated in any adopted municipal open space plan.
(See Part 1. C.2.c, E.1.c., E.2.q.)
If "Yes", answer questions a - e. If "No", go to Section 12.

☑ NO ☐ YES

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in an impairment of natural functions, or "ecosystem services", provided by an undeveloped area, including but not limited to stormwater storage, nutrient cycling, wildlife habitat.	D2e, E1b E2h, E2m, E2o, E2n, E2p	□	□
b. The proposed action may result in the loss of a current or future recreational resource.	C2a, E1c, C2c, E2q	□	□
c. The proposed action may eliminate open space or recreational resource in an area with few such resources.	C2a, C2c E1c, E2q	□	□
d. The proposed action may result in loss of an area now used informally by the community as an open space resource.	C2c, E1c	□	□
e. Other impacts: _____ _____		□	□

12. Impact on Critical Environmental Areas

The proposed action may be located within or adjacent to a critical environmental area (CEA). (See Part 1. E.3.d)
If "Yes", answer questions a - c. If "No", go to Section 13.

☑ NO ☐ YES

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in a reduction in the quantity of the resource or characteristic which was the basis for designation of the CEA.	E3d	□	□
b. The proposed action may result in a reduction in the quality of the resource or characteristic which was the basis for designation of the CEA.	E3d	□	□
c. Other impacts: _____ _____		□	□

13. Impact on Transportation

The proposed action may result in a change to existing transportation systems. ☐ NO ☑ YES
(See Part 1. D.2.j)
If "Yes", answer questions a - f. If "No", go to Section 14.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Projected traffic increase may exceed capacity of existing road network.	D2j	☑	☐
b. The proposed action may result in the construction of paved parking area for 500 or more vehicles.	D2j	☑	☐
c. The proposed action will degrade existing transit access.	D2j	☑	☐
d. The proposed action will degrade existing pedestrian or bicycle accommodations.	D2j	☑	☐
e. The proposed action may alter the present pattern of movement of people or goods.	D2j	☐	☑
f. Other impacts: _____ _____		☐	☐

14. Impact on Energy

The proposed action may cause an increase in the use of any form of energy. ☑ NO ☐ YES
(See Part 1. D.2.k)
If "Yes", answer questions a - e. If "No", go to Section 15.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action will require a new, or an upgrade to an existing, substation.	D2k	□	□
b. The proposed action will require the creation or extension of an energy transmission or supply system to serve more than 50 single or two-family residences or to serve a commercial or industrial use.	D1f, D1q, D2k	□	□
c. The proposed action may utilize more than 2,500 MWhrs per year of electricity.	D2k	□	□
d. The proposed action may involve heating and/or cooling of more than 100,000 square feet of building area when completed.	D1g	□	□
e. Other Impacts: _____ _____			

15. Impact on Noise, Odor, and Light

The proposed action may result in an increase in noise, odors, or outdoor lighting. ☐ NO ☑ YES
(See Part 1. D.2.m., n., and o.)
If "Yes", answer questions a - f. If "No", go to Section 16.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may produce sound above noise levels established by local regulation.	D2m	☑	☐
b. The proposed action may result in blasting within 1,500 feet of any residence, hospital, school, licensed day care center, or nursing home.	D2m, E1d	☐	☑
c. The proposed action may result in routine odors for more than one hour per day.	D2o	☐	☑

d. The proposed action may result in light shining onto adjoining properties.	D2n	☑	☐
e. The proposed action may result in lighting creating sky-glow brighter than existing area conditions.	D2n, E1a	☑	☐
f. Other impacts: The construction period will produce noise during daytime construction hours above ambient levels that will extend for greater than two years.		☐	☑

16. Impact on Human Health

The proposed action may have an impact on human health from exposure to new or existing sources of contaminants. (See Part 1.D.2.q., E.1. d. f. g. and h.) ☐ NO ☑ YES

If "Yes", answer questions a - m. If "No", go to Section 17.

	Relevant Part I Question(s)	No,or small impact may cccur	Moderate to large impact may occur
a. The proposed action is located within 1500 feet of a school, hospital, licensed day care center, group home, nursing home or retirement community.	E1d	☑	☐
b. The site of the proposed action is currently undergoing remediation.	E1g, E1h	☑	☐
c. There is a completed emergency spill remediation, or a completed environmental site remediation on, or adjacent to, the site of the proposed action.	E1g, E1h	☑	☐
d. The site of the action is subject to an institutional control limiting the use of the property (e.g., easement or deed restriction).	E1g, E1h	☑	☐
e. The proposed action may affect institutional control measures that were put in place to ensure that the site remains protective of the environment and human health.	E1g, E1h	☑	☐
f. The proposed action has adequate control measures in place to ensure that future generation, treatment and/or disposal of hazardous wastes will be protective of the environment and human health.	D2t	☑	☐
g. The proposed action involves construction or modification of a solid waste management facility.	D2q, E1f	☑	☐
h. The proposed action may result in the unearthing of solid or hazardous waste.	D2q, E1f	☑	☐
i. The proposed action may result in an increase in the rate of disposal, or processing, of solid waste.	D2r, D2s	☑	☐
j. The proposed action may result in excavation or other disturbance within 2000 feet of a site used for the disposal of solid or hazardous waste.	E1f, E1g E1h	☑	☐
k. The proposed action may result in the migration of explosive gases from a landfill site to adjacent off site structures.	E1f, E1g	☑	☐
l. The proposed action may result in the release of contaminated leachate from the project site.	D2s, E1f, D2r	☑	☐
m. Other impacts: _____		☐	☐

17. Consistency with Community Plans

The proposed action is not consistent with adopted land use plans. ☑ NO ☐ YES

(See Part 1. C.1, C.2. and C.3.)

If "Yes", answer questions a - h. If "No", go to Section 18.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action's land use components may be different from, or in sharp contrast to, current surrounding land use pattern(s).	C2, C3, D1a E1a, E1b	☐	☐
b. The proposed action will cause the permanent population of the city, town or village in which the project is located to grow by more than 5%.	C2	☐	☐
c. The proposed action is inconsistent with local land use plans or zoning regulations.	C2, C2, C3	☐	☐
d. The proposed action is inconsistent with any County plans, or other regional land use plans.	C2, C2	☐	☐
e. The proposed action may cause a change in the density of development that is not supported by existing infrastructure or is distant from existing infrastructure.	C3, D1c, D1d, D1f, D1d, Elb	☐	☐
f. The proposed action is located in an area characterized by low density development that will require new or expanded public infrastructure.	C4, D2c, D2d D2j	☐	☐
g. The proposed action may induce secondary development impacts (e.g., residential or commercial development not included in the proposed action)	C2a	☐	☐
h. Other: _____ _____		☐	☐

18. Consistency with Community Character

The proposed project is inconsistent with the existing community character. ☐ NO ☑ YES

(See Part 1. C.2, C.3, D.2, E.3)

If "Yes", answer questions a - g. If "No", proceed to Part 3.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may replace or eliminate existing facilities, structures, or areas of historic importance to the community.	E3e, E3f, E3g	☑	☐
b. The proposed action may create a demand for additional community services (e.g. schools, police and fire)	C4	☑	☐
c. The proposed action may displace affordable or low-income housing in an area where there is a shortage of such housing.	C2, C3, D1f D1g, E1a	☑	☐
d. The proposed action may interfere with the use or enjoyment of officially recognized or designated public resources.	C2, E3	☑	☐
e. The proposed action is inconsistent with the predominant architectural scale and character.	C2, C3	☑	☐
f. Proposed action is inconsistent with the character of the existing natural landscape.	C2, C3 E1a, E1b E2g, E2h	☑	☐
g. Other impacts: _____ _____		☐	☐

PRINT FULL FORM

BUFFALO
SEWER AUTHORITY

ATTACHMENT I

Agency Use Only [IfApplicable]

Project :

Date :

Full Environmental Assessment Form
Part 3 - Evaluation of the Magnitude and Importance of Project Impacts
and
Determination of Significance

Part 3 provides the reasons in support of the determination of significance. The lead agency must complete Part 3 for every question in Part 2 where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse environmental impact.

Based on the analysis in Part 3, the lead agency must decide whether to require an environmental impact statement to further assess the proposed action or whether available information is sufficient for the lead agency to conclude that the proposed action will not have a significant adverse environmental impact. By completing the certification on the next page, the lead agency can complete its determination of significance.

Reasons Supporting This Determination:

To complete this section:

- Identify the impact based on the Part 2 responses and describe its magnitude. Magnitude considers factors such as severity, size or extent of an impact.
- Assess the importance of the impact. Importance relates to the geographic scope, duration, probability of the impact occurring, number of people affected by the impact and any additional environmental consequences if the impact were to occur.
- The assessment should take into consideration any design element or project changes.
- Repeat this process for each Part 2 question where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse environmental impact.
- Provide the reason(s) why the impact may, or will not, result in a significant adverse environmental impact
- For Conditional Negative Declarations identify the specific condition(s) imposed that will modify the proposed action so that no significant adverse environmental impacts will result.
- Attach additional sheets, as needed.

The proposed action may result in one or more significant adverse impacts on the environment based on the information contained in the Full EAF – Part 1 for the project dated June 26, 2024. Based upon Part 2 of the Full EAF, the proposed action may result in potentially significant adverse environmental impacts on the following categories, which warrant additional analyses:

•Impact on Land: The proposed action would require the removal of a large quantity of natural material and bedrock, and the construction period is anticipated to last up to four (4) years. In addition, a large area of soil would be temporarily exposed.
•Impact on Air: The proposed action would involve construction activities that could have the potential to release hydrogen sulfide into the atmosphere.
•Impact on Transportation: During construction of the proposed action, closure of a portion of a main thoroughfare in the area for up to 9 months would be necessary to support construction.
•Impact on Noise, Odor, and Light: During construction, blasting would occur in the vicinity of residences and businesses, which would be noticeable from these receptors. Due to the composition of bedrock layers in the area, there is the potential for hydrogen sulfide, which has a noticeable odor, to be released during construction. Once operational, there could be the occurrence of intermittent odors when the combined sewer overflow (CSO) Storage Facility is in use.

In addition, the project location in the Masten District of Buffalo is within a New York State Department of Environmental Conservation (NYSDEC)-designated potential environmental justice area (PEJA) and disadvantaged community (DAC).

These resource categories, along with a presentation of how the project may also result in small impacts on other resources, will be further evaluated in the Environmental Impact Statement for the proposed action.

Determination of Significance - Type 1 and Unlisted Actions

SEQR Status: ☐ Type 1 ☑ Unlisted

Identify portions of EAF completed for this Project: ☑ Part 1 ☑ Part 2 ☑ Part 3

Upon review of the information recorded on this EAF, as noted, plus this additional support information
N/A

and considering both the magnitude and importance of each identified potential impact, it is the conclusion of the
Buffalo Sewer Authority as lead agency that:

☐ A. This project will result in no significant adverse impacts on the environment, and, therefore, an environmental impact statement need not be prepared. Accordingly, this negative declaration is issued.

☐ B. Although this project could have a significant adverse impact on the environment, that impact will be avoided or substantially mitigated because of the following conditions which will be required by the lead agency:

There will, therefore, be no significant adverse impacts from the project as conditioned, and, therefore, this conditioned negative declaration is issued. A conditioned negative declaration may be used only for UNLISTED actions (see 6 NYCRR 617.7(d)).

☑ C. This Project may result in one or more significant adverse impacts on the environment, and an environmental impact statement must be prepared to further assess the impact(s) and possible mitigation and to explore alternatives to avoid or reduce those impacts. Accordingly, this positive declaration is issued.

Name of Action: East Delavan Trunk Sewer Improvements Project

Name of Lead Agency: Buffalo Sewer Authority

Name of Responsible Officer in Lead Agency: Rosaleen B. Nogle

Title of Responsible Officer: Principal Sanitary Engineer

Signature of Responsible Officer in Lead Agency: Date:

Signature of Preparer (if different from Responsible Officer) Date:

For Further Information:

Contact Person: Regina Harris

Address: 65 Niagara Square, Buffalo, NY 14202

Telephone Number: 716-851-4664

E-mail: 716-851-4664

For Type 1 Actions and Conditioned Negative Declarations, a copy of this Notice is sent to:

Chief Executive Officer of the political subdivision in which the action will be principally located (e.g., Town / City / Village of)
Other involved agencies (if any)
Applicant (if any)
Environmental Notice Bulletin: http://www.dec.ny.gov/enb/enb.html

PRINT FULL FORM

DRAFT MINUTES FOR APPROVAL

MINUTES OF THE REGULAR MEETING

OF THE

BUFFALO SEWER AUTHORITY

June 25, 2025

BUFFALO SEWER AUTHORITY

REGULAR MEETING
June 25, 2025
9:00 A.M.

Buffalo City Hall, 65 Niagara Square Room 1038
Teleconference +1 917- 933-2166, ID #605 167 358#

ITEM NO.	CONTENTS	PAGE NO.
	Roll Call	
1	Motion to Adopt the Minutes of May 28, 2025	59392
	Enter into Executive Session	59393
1-A	Authorization For the Buffalo Sewer Authority to Enter into a Temporary Easement Agreement for An Easement At 16 Black Rock Harbor Road And 2200 Niagara Street	59394
2	Approval of Consent Agenda	59395-06
	A. Informative: Temporary Investments	
	B. Informative: Reallocation of Funds	
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	D. Contract Approval – Legal Services	
	E. Contract Approval – Legal Services	
	F. Contract Approval – Legal Services	
	G. Tuition Reimbursement	
	H. Tuition Assistance	
	I. Confirmation of Appointments	
3	Revision to Buffalo Sewer Authority Policies and Guidelines	59407
4	Authorization to Purchase Cyber Insurance	59408
5	Authorization for Renewal of Annual Customer Support Plan	59409

6	Extension of the Contract for In-Plant High Pressure Steam System Maintenance Services	59410-11
7	Extension of the Contract for In-Plant Electrical Maintenance Services	59412-13
8	Extension of the Contract for Medium and Large Motor Turnkey Maintenance Services	59414
9	Reports on Bids Received for the Purchase of New & Unused Permanently Mounted Gas Detector Systems	59415
10	Authorization for Original Equipment Manufacturer Purchases Over $20,000.00 and Services Over $35,000.00 for Fiscal Year 2025-2026	59416-17
11	Authorization for Original Equipment Manufacturer Purchases Over $20,000.00 From Rexel USA	59418
12	Change Order No. 1– Scajaquada Creek and Black Rock Canal Smart Sewer Project Contract No 82000074	59419-20
13	Change Order No. 2– Purchase Order 22100542 On The Mark Utility Location Services	59421-22
14	Change Order No. 1 – Contract No. 82000072 Destro & Brothers Concrete Co., Inc.	59423-24
15	Change Order No. 2 – Design, Construction Administration/ Inspection and Environmental Review Services for Contract No. 820000043 - Delavan Trunk Sewer Improvements Project	59425-27
16	Adoption of a State Environmental Quality Review Act Positive Declaration for The Delavan Trunk Sewer Improvements Project (SPP333 CSO-053_11) And Notice of Public Hearings and Public Comment Period on The Project's Draft Environmental Impact Statement	59428-29
17	Adjournment of Meeting	59430

Attachments

Attachment A: Capital Assist Guide

Attachment B: Purchasing Guidelines

Attachment C: Fund Balance Policy

Attachment D: Investment Guidelines

Attachment E: Credit Card Policy

Attachment F: Full EAF Part 1

Attachment G: Full EAF Supplement

Attachment H: Full EAF Part 2

Attachment I: Full EAF Part 3

CALL OF THE ROLL

Present:	Herbert Bellamy	Chairman of the Board
	Thomas E. Caulfield, PhD.	Board Member
	Hope Young Watkins	Board Member
	Charles Riley	Executive Secretary
	Cheryl Colston, Esq.	General Counsel
	Alexander Emmerson	Treatment Plant Superintendent
	Rosaleen Nogle, P.E.	Principal Sanitary Engineer
	Timothy Blake	Senior Instrument Technician
	Gelea James	Director of Human Resources
	LaToya Cunningham	Special Assistant
	Joel Renzoni	Director of Sewer Maintenance
	Desiree Briggs	Preventative Maintenance Coordinator
	Carol Burns	Executive Assistant to Comptroller
	Laura Surdej	Erie County Department of Sewerage
	Delano Dowell	City of Buffalo Deputy Comptroller
Absent:	Christopher Roosevelt	Vice Chairman of the Board
	Patrick Sole Jr.	Board Member

The meeting was called to order at 9:41 AM . A quorum was present.

ITEM NO. 1

Motion to Adopt the Minutes of the Meeting of May 28, 2025

MOTION TO ADOPT

MADE BY MS. YOUNG -WATKINS

2ND BY DR. CAULFIELD

AYES 3 NOES 0

Board Meeting of June 25, 2025

MOTION TO	Enter into Executive Session Pursuant to Open Meetings Law, Section 102 (3) (h) (d)
MADE BY	DR. CAULFIELD
2ND BY	MS. YOUNG -WATKINS
AYES	3 NOES 0

Board Meeting of May 28, 2025

ITEM NO. 1-A

AUTHORIZATION FOR THE BUFFALO SEWER AUTHORITY TO ENTER INTO A TEMPORARY EASEMENT AGREEMENT FOR AN EASEMENT AT 16 BLACK ROCK HARBOR ROAD AND 2200 NIAGARA STREET

WHEREAS: The Buffalo Sewer Authority is planning sewer improvement work that includes constructing combined sewer overflow backwater gate flooding mitigation and Real Time Control related improvements; and

WHEREAS: The sewer improvement project is located at approximately 16 Black Rock Harbor Road and 2200 Niagara Street; and

WHEREAS: To perform the construction work on the project to create the Real Time Control improvements to the Buffalo Sewer Authority subsurface sewer facilities, the Buffalo Sewer Authority needs access to portions of property that the County of Erie owns, known as Black Rock Harbor Canal Park; and

WHEREAS: The City of Buffalo, on behalf of the Buffalo Sewer Authority, is acquiring the property interests from the County of Erie at no monetary cost to the City of Buffalo and the Buffalo Sewer Authority.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority authorizes the Principal Sanitary Engineer and the Executive Secretary to enter into a temporary easement at no cost to the Buffalo Sewer Authority for property located at 16 Black Rock Harbor Road and 2200 Niagara Street for the Buffalo Sewer Authority's Sewer Real Time Control Project.

MOTION TO APPROVE

MADE BY DR. CAULFIELD

2ND BY MS. YOUNG -WATKINS

AYES 3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 2

APPROVAL OF CONSENT AGENDA

CONTENTS

A. Informative: Temporary Investments

B. Informative: Reallocation of Funds

C. Contract Approval – Legal Services

D. Contract Approval – Legal Services

E. Contract Approval – Legal Services

F. Contract Approval – Legal Services

G. Tuition Reimbursement

H. Tuition Assistance

I. Confirmation Of Appointments

MOTION TO APPROVE

MADE BY DR. CAULFIELD

2ND BY MS. YOUNG -WATKINS

AYES 3 NOES 0

Board Meeting of June 25, 2025

2-A

INFORMATIVE: TEMPORARY INVESTMENTS (CERTIFICATES OF DEPOSIT AND TREASURY BILLS)

As of May 31st, 2025

ISSUE DATE	MATURITY DATE	TOTAL DAYS	AMOUNT	BANK	RATE	INTEREST AMOUNT
CONSTRUCTION/CAPITAL IMPROVEMENT FUND						
31-Jul-12	**MONEY MARKET**		$3,136,628.85	Key	0.01%	Public NOW
8-May-25	5-Jun-25	28	$8,997,722.43	Key Banc Capital	4.17%	$29,277.57
22-May-25	20-Jun-25	29	$12,099,121.92	Key Banc Capital	4.18%	$40,878.08
			$24,233,473.20			
LIABILITY AND CASUALTY RESERVE FUND						
31-Jul-12	**MONEY MARKET**		$223,430.19	Key	0.01%	Public NOW
17-Apr-25	17-Jul-25	91	$787,609.50	Key Banc Capital	4.17%	$8,390.50
			$1,011,039.69			
OPERATING FUND						
31-Jul-12	**SUPER NOW**		**$3,622,656.78**	Key	0.01%	Public NOW
TRUST & AGENCY FUND						
31-Jul-12	**SUPER NOW**		**$22,301.22**	Key	0.01%	Public NOW
SURPLUS FUND						
			$1,467.83	Wilmington U.S. Treasury	4.79%	
15-May-25	23-Oct-25	161	$10,003,428.46	M&T Securities	4.09%	$186,571.54
			$10,004,896.29			
NET REVENUE FUND						
			$1,239,744.47	Wilmington U.S. Treasury		
29-May-25	26-Jun-25	28	$4,799,420.80	M&T Securities	4.16%	$15,579.20
			$6,039,165.27			

BSA 2021 EIB FUND

			$325,688.15	Cash	0.00%	
12-Dec-24	5-Jun-25	175	$9,982,955.78	M&T Securities	4.16%	$206,044.22
19-Dec-24	5-Jun-25	168	$10,101,004.00	M&T Securities	4.14%	$198,996.00
8-May-25	30-Oct-25	175	$32,615,178.37	Key Banc Capital	4.06%	$656,821.63
			$53,024,826.30			

DEBT RESERVE FUND

				Series J		
02-Jul-14	13-Nov-33	7076	**$279,018.44**	UST State/Local Govt	2.70%	
				Series K		
02-Jul-14	15-Feb-33	6803	**$194,497.05**	UST State/Local Govt	2.70%	
				Series L		
12-Nov-15	1-Oct-35	7263	**$689,547.00**	UST State/Local Govt	2.44%	
				Series M		
27-Jun-14	1-May-44	10901	**$585,063.94**	UST State/Local Govt	2.70%	
				Series N		
15-Nov-12	15-Apr-32	7091	**$2,167,157.00**	UST State/Local Govt	2.42%	
			EFC 2021			
			$3.14	Wilmington U.S. Treasury	4.79%	
13-Feb-25	7-Aug-25	175	$358,563.08	M&T Securities	4.18%	$7,436.92
			$358,566.22			

DSF PRIN &INT

$0.01 Wilmington Fund

DSF 2021 EIB

$1,863,041.78 Wilmington Fund 4.79%

RECEIVE & FILE

Board Meeting of June 25th, 2025

2-B

INFORMATIVE: REALLOCATION OF FUNDS

The following budgetary transfers have been made to cover unforeseen shortages. These transfers do not change the total amount of the Buffalo Sewer Authority's operating budget.

Wastewater Treatment Plant

05/22/2025	00230106 Refuse Disposal Services	-$14,800.00	00650103 SWRM Gas	$14,800.00
05/22/2025	00230106 Refuse Disposal Services	-$5,401.00	00390103 Hamburg Drain Float	$5,401.00
05/22/2025	00380106 INCIN Refuse Disposal	-$29,871.00	00300103 BLOW Electric Light & Power	$29,871.00
05/28/2025	00200105 PLAN Equipment Maintenance	-$1,582.00	00200107 PLAN Office Equipment	$1,582.00

Industrial Waste

05/15/2025	00550106 IWS Eng and Tech	-$10,022.00	00550107 IWS Operating Equipment	$10,022.00
05/22/2025	00550106 IWS Eng and Tech	-$1,849.00	00550105 IWS Equipment Maintenance	$1,849.00

Sewer Maintenance Division

05/16/2025	00660105 SWRR Road & Highway	-$651.84	00670105 SWRC Chemicals & Gases	$651.84
05/22/2025	00700106 EDU, Licenses & Training	-$410.54	00700105 Clothing Safety & MED	$410.54
05/22/2025	00680105 Equipment Maint. & Repair	-$1,000.00	00670105 SWRC Chemicals & Gases	$1,000.00
05/22/2025	00680105 Equipment Maint. & Repair	-$1,100.00	00690106 AUTO Repairs	$1,100.00
05/30/2025	00680105 Equipment Maint. & Repair	-$1,000.00	00670105 SWRC Chemicals & Gases	$1,000.00
06/04/2025	00700106 EDU, Licenses & Training	-$316.80	00700105 GI Agriculture & Botanical	$316.80
06/04/2025	00650106 SWRM ED, LIC & Training	-$9,440.00	00660106 SWRR Service & Equipment	$9,440.00

RECEIVE & FILE

Board Meeting of June 25, 2025

2-C

CONTRACT APPROVAL – LEGAL SERVICES

WHEREAS: The Buffalo Sewer Authority has many complex regulatory, enforcement, and environmental matters that require the skills of a specialized attorney; and

WHEREAS: Barnes & Thornburg LLP has a national team of attorneys who have significant experience in such areas as combined sewer overflow, sanitary sewer overflow, and in negotiating agreements with state and federal agencies; and

WHEREAS: Upon request, Barnes & Thornburg, LLP has submitted a proposed retainer agreement to continue to provide legal services for the Buffalo Sewer Authority; and

WHEREAS: The Executive Secretary and the Principal Sanitary Engineer recommend approval to retain Barnes & Thornburg, LLP for legal services on an as-needed basis for the 2025-2026 fiscal year.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and the Principal Sanitary Engineer to retain Barnes & Thornburg, LLP for legal services on an as-needed basis in an amount not to exceed $25,000.00 for the period July 1, 2025 through June 30, 2026. Expenses for these services will be charged to account no. 00550106-432003.

2-D

CONTRACT APPROVAL – LEGAL SERVICES

WHEREAS: The Buffalo Sewer Authority has many complex regulatory, enforcement, and environmental matters that require the skills of a specialized attorney; and

WHEREAS: Barclay Damon, LLP has historically represented the Buffalo Sewer Authority in these areas as well as litigation and arbitration matters as needed; and

WHEREAS: Upon request, Barclay Damon, LLP has submitted a proposed retainer agreement to continue to provide legal services for the Buffalo Sewer Authority; and

WHEREAS: The Executive Secretary and the Principal Sanitary Engineer recommend approval to retain Barclay Damon, LLP for legal services on an as-needed basis for the 2025-2026 fiscal year.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and the Principal Sanitary Engineer to retain Barclay Damon, LLP for legal services on an as-needed basis in an amount not to exceed $150,000.00 for the period July 1, 2025 through June 30, 2026. Expenses for these services will be charged to account no. 00550106-432003.

2-E

CONTRACT APPROVAL – LEGAL SERVICES

WHEREAS: The Buffalo Sewer Authority has many complex general labor and employment matters as well as contract negotiations that require the skill of specialized employment and labor law attorneys; and

WHEREAS: Phillips Lytle LLP has extensive experience in these areas; and

WHEREAS: Upon request, Phillips Lytle LLP has submitted a proposed retainer agreement to provide legal services for the Buffalo Sewer Authority; and

WHEREAS: The Executive Secretary and the Principal Sanitary Engineer recommend approval to retain Phillips Lytle LLP for legal services on an as-needed basis for the 2025-2026 fiscal year.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and the Principal Sanitary Engineer to retain Phillips Lytle LLP for legal services on an as-needed basis in an amount not to exceed $200,000.00 for the period July 1, 2025 through June 30, 2026. Expenses for these services will be charged to account no. 00550106-432003.

2-F

CONTRACT APPROVAL – LEGAL SERVICES

WHEREAS: The Buffalo Sewer Authority has many complex regulatory, enforcement and governmental matters that require the skills of a specialized attorney; and

WHEREAS: Lippes Mathias LLP has a national team of attorneys who have significant experience in such areas as municipal law, human resources training and counseling and corporate governance; and

WHEREAS: Upon request, Lippes Mathias LLP has submitted a proposed retainer agreement to provide legal services for the Buffalo Sewer Authority; and

WHEREAS: The Executive Secretary and the Principal Sanitary Engineer recommend approval to retain Lippes Mathias LLP for legal services on an as-needed basis for the 2025-2026 fiscal year.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and the Principal Sanitary Engineer to retain Lippes Mathias LLP for legal services on an as-needed basis in an amount not to exceed $25,000.00 for the period July 1, 2025 through June 30, 2026. Expenses for these services will be charged to account no. 00550106-432003.

2-G

TUITION REIMBURSEMENT

WHEREAS: In accordance with the Agreements between the Buffalo Sewer Authority and CSEA Local 815 and the Communications Workers of America, the following Buffalo Sewer Authority employees have applied for Tuition Reimbursement:

EMPLOYEE	SCHOOL	COURSE	TUITION%	REIMBURSEMENT TOTAL
Edwin Geter	Buffalo State University	Nonprofit Grants Management	90%	$1,291.70
Daniel O'Sullivan	University at Buffalo	Civil Engineering Materials	50%	$707.00
Daniel O'Sullivan	University at Buffalo	Engineering Computations	75%	$794.93

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves the above applications for Tuition Reimbursement totaling $2,793.63. These Reimbursements will be charged to account no. 00200106-421026.

2-H

TUITION ASSISTANCE

WHEREAS: In accordance with the Agreements between the Buffalo Sewer Authority and CSEA Local 815 and the Communications Workers of America, the following Buffalo Sewer Authority employee has applied for Tuition Assistance.

EMPLOYEE	SCHOOL	COURSE	TUITION
Brianna D. Larkin	Erie 1 BOCES	Welding Technology	$5,000.00
Joel Woodell	D'Youville University	Assessment I	$3,960.00
Joel Woodell	D'Youville University	Psychometrics	$3,960.00

WHEREAS: No Funds will be expended at this time.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves the above application for Tuition Assistance

2-I

CONFIRMATION OF APPOINTMENTS

ACCOUNT CLERK-TYPIST (PERMANENT)
TREATMENT PLANT ADMINISTRATION
$47,152 PER ANNUM
EFFECTIVE: JUNE 6, 2025

CATHERINE AMOIA
49 TREEHAVEN RD
BUFFALO, NY 14215

PRINCIPAL CLERK (PERMANENT)
TREATMENT PLANT ADMINISTRATION
$73,813 PER ANNUM
EFFECTIVE: JUNE 6, 2025

PATRICIA PINELLI
92 MIDLAND ST.
BUFFALO, NY 14220

ASSISTANT SANITARY CHEMIST (PERMANENT)
SEWAGE TREATMENT PLANT
$67,653 PER ANNUM
EFFECTIVE: MAY 26, 2025

LYNDA BRUNDIGE
26 18TH ST
BUFFALO, NY 14213

ASSISTANT SANITARY CHEMIST (PERMANENT)
SEWAGE TREATMENT PLANT
$59,086 PER ANNUM
EFFECTIVE: MAY 26, 2025

CHRISTOPHER JONES
417 COLVIN AVE.
BUFFALO, NY 14216

SANITARY CHEMIST (PERMANENT)
SEWAGE TREATMENT PLANT
$84,440 PER ANNUM
EFFECTIVE: MAY 26, 2025

RAECHEL MILLER
540 SAINT LAWRENCE AVE.
BUFFALO, NY 14216

SANITARY CHEMIST (PERMANENT)
SEWAGE TREATMENT PLANT
$79,720 PER ANNUM
EFFECTIVE: MAY 26, 2025

CRAIG RYBAK
361 TAUNTON
BUFFALO, NY 14216

LABORER II (PERMANENT)
SEWER MAINTENANCE DIVISION
$23.95 PER HOUR
EFFECTIVE: MAY 26, 2025

JUSTIN BLACK
220 KAY ST.
BUFFALO, NY 14215

WHEREAS: The preceding appointments were made by the Executive Secretary and Principal Sanitary Engineer since the last Board Meeting; and

WHEREAS: The Executive Secretary and Principal Sanitary Engineer requests confirmation of each appointment.

NOW THEREFORE
BE IT RESOLVED: That the preceding appointments are hereby confirmed by the Board of the Buffalo Sewer Authority

ITEM NO. 3

REVISION TO BUFFALO SEWER AUTHORITY POLICIES AND GUIDELINES

WHEREAS: The Buffalo Sewer Authority has developed the following policies and guidelines:
Capital Asset Guide (Attachment A)
Purchasing Guidelines (Attachment B)
Fund Balance Policy (Attachment C)
Investment Guidelines (Attachment D)
Credit Card Policy (Attachment E); and

WHEREAS: These policies and guidelines shall be annually reviewed and approved by the Board.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby adopts the policies and guidelines listed above.

MOTION TO APPROVE

MADE BY MS. YOUNG -WATKINS

2ND BY DR. CAULFIELD

AYES 3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 4

AUTHORIZATION TO PURCHASE CYBER INSURANCE

WHEREAS: The Buffalo Sewer Authority currently receives cyber insurance coverage through Coalition Insurance Solutions; and

WHEREAS: Coalition Insurance Solutions has proposed a renewal extension of the Authority's cyber insurance coverage for the period July 1, 2025 through June 30, 2026, with no increase to the current cost; and

WHEREAS: The Authority's insurance broker, Gallagher Insurance, received proposals from Coalition Insurance Solutions and Corvus Insurance. It was determined that the proposal from Coalition Insurance Solutions offered better pricing, terms, and conditions and provides stronger coverage than the proposal from Corvus Insurance; and

WHEREAS: The Executive Secretary and the Director of Information Technology have carefully reviewed the policies and recommend accepting the proposal from Coalition Insurance Solutions; and

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves the purchase of a Cyber Insurance Policy from Coalition Insurance Solutions for a cost not to exceed $28,695.18 for the period July 1, 2025 – June 30, 2026. These costs shall be charged to account nos. 00200108-452000 and 00650108-452000 on a pro-rata-basis.

MOTION TO APPROVE

MADE BY MS. YOUNG -WATKINS

2ND BY DR. CAULFIELD

AYES 3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 5

AUTHORIZATION FOR RENEWAL OF ANNUAL CUSTOMER SUPPORT PLAN

WHEREAS: The Buffalo Sewer Authority utilizes International Business Machines Maximo Maintenance System software for asset management, work order tracking, purchasing and inventory control program; and

WHEREAS: An annual customer support plan is necessary to keep current, receive the latest releases, and receive unlimited off-site support; and

WHEREAS: The Treatment Plant Superintendent, Director of Information Technology and staff recommend renewal of the annual customer support plan with International Business Machines Corporation for the period August 1, 2025, through July 31, 2026 for a cost of $122,341.85; and

WHEREAS: Board approval is required on the purchase of services over $35,000.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to renew the annual customer support plan with International Business Machines Corporation for a one-year period, August 1, 2025 through July 31, 2026, at a cost not to exceed $122,431.85. Account no. 00200106-443420 will be charged for this service.

MOTION TO APPROVE

MADE BY MS. YOUNG -WATKINS

2ND BY DR. CAULFIELD

AYES 3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 6

EXTENSION OF THE CONTRACT FOR IN-PLANT HIGH PRESSURE STEAM SYSTEM MAINTENANCE SERVICES

WHEREAS: On May 25, 2022, the Board of the Buffalo Sewer Authority awarded a contract to Quackenbush Company, Inc. for In-Plant High Pressure Steam System Maintenance Services for the period July 1, 2022 to June 30, 2023, with an option to renew for four (4) one-year periods, at an annual cost not to exceed $576,700.00; and

WHEREAS: On July 26, 2023, the Board of the Buffalo Sewer Authority authorized the General Manager to renew the contract with Quackenbush Company, Inc., for In-Plant High Pressure Steam System Maintenance Services for the period July 1, 2023 to June 30, 2024, at a cost not to exceed $576,700.00; and

WHEREAS: On April 3, 2024, the Board of the Buffalo Sewer Authority approved Change Order No. 1 to Contract No. 82000045 increasing the contract cost in the amount of $80,000.00 for additional work making the adjusted contract cost $1,233,400.00; and

WHEREAS: On July 31, 2024, the Board authorized the extension of the contract for the period July 1, 2024 to June 30, 2025 at a cost not to exceed $576,700.00 making the adjusted contract cost $1,810,100.00; and

; and

WHEREAS: On February 19, 2025, the Board authorized the Change Order No.. 2 to Contract No. 82000045 increasing the contract cost in the amount of $240,000.00 making the adjusted contract cost $2,050,100.00; and

WHEREAS: Quackenbush Company, Inc., has agreed to extend this contract for one (1) additional year under the same terms and conditions with an increase in the prevailing wage adjustment the total cost not to exceed $760,000.00 for fiscal year 2025-2026 making the adjusted contract cost $2,810,100.00; and

WHEREAS: The Treatment Plant Superintendent and staff recommend this extension at a total cost not to exceed $760,000.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to renew the contract with Quackenbush Company, Inc., for In-Plant High Pressure Steam System Maintenance Services for the period July 1, 2025 to June 30, 2026; at a total cost not to exceed $760,000.00. Expenses for this contract will be charged to account no. 00380106-443421.

MOTION TO TABLE

MADE BY DR. CAULFIELD

2ND BY MS. YOUNG -WATKINS

AYES 3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 7

EXTENSION OF THE CONTRACT FOR IN-PLANT ELECTRICAL MAINTENANCE SERVICES

WHEREAS: On June 23, 2021, the Board of the Buffalo Sewer Authority awarded a contract to O'Connell Electric Company, Inc., for In-Plant Electrical Maintenance Services at a total cost not to exceed $600,000.00 for the fiscal year 2021-2022 with up to four (4) one-year renewals beginning July 1, 2021; and

WHEREAS: On June 22, 2022, O'Connell Electric Company, Inc., agreed to extend this contract for one (1) additional year at a cost not to exceed $1,418,616.00 for fiscal year 2022-2023; and

WHEREAS: On May 3, 2023, O'Connell Electric Company, Inc., agreed to extend this contract for one (1) additional year at a cost not to exceed $2,179,717.00 for fiscal year 2023-2024; and

WHEREAS: On June 26, 2024, O'Connell Electric Company, Inc., agreed to extend this contract for one (1) additional year at a cost not to exceed $2,210,482.00 for fiscal year 2024-2025; and

WHEREAS: On March 12, 2025, Change Order No. 1 was approved in the amount of $359,121.35, bringing the contract total to $6,767,936.35; and

WHEREAS: O'Connell Electric Company, Inc., has agreed to extend this contract for one (1) additional year for fiscal year 2025-2026 for an amount not to exceed $2,609,191.09; This renewal amount represents additional identified work including preventative & de-energized maintenance, equipment repairs, general maintenance & service, lighting repairs & installations, process improvements and anticipated labor escalation; and

WHEREAS: $1,462,997.11 of the total $2,609,191.09 renewal amount represents both deferred and planned overall facility de-energized electrical preventative maintenance, replacement of multiple facility main breakers, along with replacement of the raw wastewater substation yard medium voltage (13.8kV) duplex switch; and

WHEREAS: The Superintendent of Mechanical Maintenance, the Treatment Plant Superintendent and staff recommend this extension at a total cost not to exceed $2,609,191.09.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to renew the contract with O'Connell Electric Company, Inc., for In-Plant Electrical Services for the period July 1, 2025 through June 30, 2026, at a total cost not to exceed $2,609,191.09, brining the total contract cost to $9,377,127.44 Expenses for this contract will be charged to account no. 00520106-443421.

MOTION TO	TABLE
MADE BY	DR. CAULFIELD
2ND BY	MS. YOUNG -WATKINS
AYES	3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 8

EXTENSION OF THE CONTRACT FOR MEDIUM AND LARGE MOTOR TURNKEY MAINTENANCE SERVICES

WHEREAS: On May 29, 2024, the Board of the Buffalo Sewer Authority authorized the General Manager to enter into and execute a contract with Hannon Electric Company, to provide Large Motor Turnkey Maintenance services for the period July 1, 2024 to June 30, 2025 at $300,000.00, with an option to renew for four (4) one-year periods; and

WHEREAS: On March 12, 2025, Change Order No. 1 was approved in the amount of $249,471.00, bringing the contract total to $549,471.00 for fiscal year 2024-2025; and

WHEREAS: Hannon Electric Company has agreed to extend this contract for one (1) additional year for fiscal year 2025-2026 for an amount not to exceed $800,000.00; and

WHEREAS: $535,000.00 of the total $800,000.00 renewal amount represents repairs to various large motors. These repairs will increase overall process reliability and prevent future more costly and time-consuming repairs and/or replacements; and

WHEREAS: The Superintendent of Mechanical Maintenance, the Treatment Plant Superintendent and staff recommend this extension at a total cost not to exceed $800,000.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to renew the contract with Hannon Electric Company, to provide Large Motor Turnkey Maintenance services for the period July 1, 2025 through June 30, 2026, at a total cost not to exceed $800,000.00, bringing the total contract cost to $1,044,471.00. Expenses for this contract will be charged to account no. 00520106-443421.

MOTION TO	APPROVE
MADE BY	DR. CAULFIELD
2ND BY	MS. YOUNG -WATKINS
AYES	3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 9

REPORTS ON BIDS RECEIVED FOR THE PURCHASE OF NEW & UNUSED PERMANENTLY MOUNTED GAS DETECTOR SYSTEMS

WHEREAS: Formal bids were advertised and solicited for the purchase of new & unused permanently mounted gas detector systems; and

WHEREAS: The following bids were received and opened by the Buffalo Sewer Authority Purchase Department on May 20, 2025:

Vendor:	**Total Cost:**
Bomark Instruments, Inc.	$82,775.00
Sensidyne C/O Trinova	$112,443.30

: and

WHEREAS: The Superintendent of Mechanical Maintenance and staff reviewed the quotes received and recommend awarding the entire purchase to the lowest bidder, Bomark Instruments, Inc., at a total cost of $82,775.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to purchase the above listed new & unused permanently mounted gas detector systems from the lowest bidder, Bomark Instruments, Inc., at a total cost not to exceed $82,775.00. This purchase will be charged to account nos. 00400105-466107, 00420105-466107, 00410105-466107, 00230105-466107, 00380105-466107, 00250105-466107, 00260105-466107 and 00210105-466107.

MOTION TO APPROVE

MADE BY MS. YOUNG -WATKINS

2ND BY DR. CAULFIELD

AYES 3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 10

AUTHORIZATION FOR ORIGINAL EQUIPMENT MANUFACTURER PURCHASES OVER $20,000.00 AND SERVICES OVER $35,000.00 FOR FISCAL YEAR 2025-2026

WHEREAS: The Buffalo Sewer Authority designated various original equipment manufacturers, and/or their local representatives, as sole sources for the purchase of various commodities, technology, and/or services for the fiscal year 2025-2026; and

WHEREAS: Based upon historical usage and the fiscal budget plan for this fiscal year of 2025-2026, the Superintendent of Mechanical Maintenance has determined that purchases for the following sole source designated vendors for various commodities, technologies and/or services shall not exceed those listed below for the fiscal year 2025-2026:

Original Equipment Manufacturer	**Estimated Purchases/Services**
AAF McQuay	$30,000.00
ABB Inc., Instrumentation Department	$50,000.00
Allen Bradley	$30,000.00
Allen Sherman Hoff	$60,000.00
Auma Actuators	$150,000.00
Blackmer, Division of Dover Energy Inc.	$110,000.00
Comairco	$50,000.00
Duperon	$15,000.00
EIM Controls	$75,000.00
Emerson Process Management	$50,000.00
Envirocare	$80,000.00
Evoqua Water Technologies	$90,000.00
Fairbanks Morse	$80,000.00
GEA Mechanical Equipment US Inc. -GEA Westfalia Separator Division	$425,000.00
Gorman-Rupp Company	$90,000.00
Goulds/ITT IP Division	$40,000.00
Henry Pratt	$20,000.00
Infilco	$100,000.00
Ingersoll-Rand	$160,000.00
JDV	$70,000.00
JWC Environmental, LLC	$80,000.00
Limitorque (Division of Flowserve)	$60,000.00
Royal Purple	$5,000.00
Schwing Bioset	$40,000.00
Serpentix	$60,000.00

Smith & Loveless, Inc.	$70,000.00
Val-Matic Valve	$30,000.00
Val-Matic Valve (Scum Ejector Parts)	$ 50,000.00
Vaughan Co., Inc.	$120,000.00
W.S.G. & Solutions	$75,000.00
Xylem Water Solutions (ITT Flygt Pumps)	$140,000.00
Xylem Water Solutions (Allis Chalmers Pumps)	$40,000.00
YSI Incorporated	$30,000.00
APGN INC	$50,000.00

; and

WHEREAS: The Superintendent of Mechanical Maintenance, Treatment Plant Superintendent, and staff recommend approval for the estimated amounts listed for the various original equipment manufacturers for purchases/services anticipated for fiscal year 2025-2026; and

WHEREAS: Board approval is required on purchases made over $20,000.00 and services over $35,000.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to purchase original equipment commodities, as needed, and services from the original equipment manufacturers, or their designated local representatives, at a total cost not to exceed the listed amounts for fiscal year 2025-2026 and to charge the appropriate department accounts.

MOTION TO APPROVE

MADE BY DR. CAULFIELFD

2ND BY MS. YOUNG -WATKINS

AYES 3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 11

AUTHORIZATION FOR ORIGINAL EQUIPMENT MANUFACTURER PURCHASES OVER $20,000.00 FROM REXEL USA

WHEREAS: The Buffalo Sewer Authority designated various original equipment manufacturers, and/or their local representatives, as sole sources for the purchase of various commodities, technology, and/or services for the fiscal year 2024-2025; and

WHEREAS: The Buffalo Sewer Authority has standardized programmable logic controllers (PLCs) using Allen-Bradley products including those associated with the existing real time control facilities; and

WHEREAS: Rexel USA is the sole source provider of Allen-Bradley PLCs; and

WHEREAS: The existing PLCs for the oldest real time control facilities have reached the end of their useful lives and require replacement; and

WHEREAS: Rexel USA has provided a quote of $50,016.11 for replacement parts and equipment; and

WHEREAS: Board approval is required on purchases made over $20,000.00 and services over $35,000.00; and

WHEREAS: The Principal Sanitary Engineer, Superintendent of Mechanical Maintenance, and staff recommend approval of the purchase of these sole source parts and equipment from Rexel USA for the quoted amount.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Principal Sanitary Engineer and Executive Secretary to purchase selected parts and equipment from Rexel USA at a cost not to exceed $50,016.11 and to charge account no. 00680105-466107 for this purchase.

MOTION TO APPROVE

MADE BY MS. YOUNG -WATKINS

2ND BY DR. CAULFIELD

AYES 3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 12

CHANGE ORDER NO. 1– SCAJAQUADA CREEK AND BLACK ROCK CANAL SMART SEWER PROJECT CONTRACT NO 82000074

CONTRACTOR:	ORIGINAL CONTRACT COST	$5,987,000.00
Mark Cerrone Inc.	PREVIOUS CHANGE ORDER	N/A
2368 Maryland Ave.	THIS CHANGE ORDER	$493,196.62
Niagara Falls, New York 14210	ADJUSTED CONTRACT COST	$6,480,196.62

WORK: Scajaquada Creek and Black Rock Canal Smart Sewer Project

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DESCRIPTION OF CHANGE OR EXTRA WORK:

Item #1	Addition of project SPP 338 overflow weir modifications at Bailey Avenue & Kerns Avenue SPP338 work including installing a new weir wall, riser, and roof slab along with site restorations at Bailey Avenue & Kerns Avenue.
Item #2	Increase of existing allowance pay item G-6 budget due to additional insurance requirements and unforeseen subsurface conditions at several project sites under this contract.

REASON FOR CHANGE OR EXTRA WORK:

Item #1	Work at the intersection of Bailey and Kerns was already included in original contract and the addition of the modification to SPP 338 will reduce overall costs and ensure timely completion of this required work.
Item #2	The original contract included a $100,000.00 contingency allowance to be used to cover unforeseen site conditions related to the six project sites comprised under the contract. This existing contingency has been used for additional insurance premium and multiple unknown subsurface conditions.

COST OF CHANGE ORDER NO. 1:

Item #1	$268,196.62
Item #2	$225,000.00
THE TOTAL COST OF CHANGE ORDER NO 1:	$493,196.62

WHEREAS: On July 26, 2023 the Board of the Buffalo Sewer Authority authorized the General Manager to enter into and execute a contract with Mark Cerrone, Inc., for Scajaquada Creek and Black Rock Canal Smart Sewer Project at a cost not to exceed $5,987,000.00; and

WHEREAS: The New York State Environmental Facilities Corporation (EFC) has awarded this project $3,333,000.00 in Bipartisan Infrastructure Law grant funding and $3,333,000.00 in Bipartisan Infrastructure Law subsidized financing; and

WHEREAS: The adjusted contract including Change Order No. 1 would remain within the original $3,500,000.00-$6,500,000.00 Engineer's Estimate range ; and

WHEREAS: The Project Consulting Engineer, T.Y. Lin (formerly Greeley and Hansen), Principal Sanitary Engineer, and staff have reviewed a request for Change Order No. 1 to Contract No. 82000074 in the amount of $493,196.62 as detailed above and recommend its approval.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves Change Order No. 1 to Contract No. 82000074 as written in the above Agenda Item, increasing the contract cost in the amount of $493,196.62, making the adjusted contract cost $6,480,196.62. Expenses from this contract will be funded from Account No. 02000550-490740.

MOTION TO APPROVE

MADE BY DR. CAULFIELD

2ND BY MS. YOUNG -WATKINS

AYES 3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 13

CHANGE ORDER NO. 2– PURCHASE ORDER 22100542 ON THE MARK UTILITY LOCATION SERVICES

CONTRACTOR:	ORIGINAL CONTRACT APPROVAL	$68,772.00
On The Mark, LLC	CHANGE ORDER 2021-2021	$50,000.00
21 Goodway Dr Ste #171	CONTRACT EXTENSION 2021-2022	$236,000.00
Rochester, New York 14623	CONTRACT EXTENSION 2022-2023	$200,000.00
	CONTRACT EXTENSION 2023-2024	$225,000.00
	CONTRACT EXTENSION 2024-2025	$250,000.00
	THIS CHANGE ORDER	$100,000.00
	ADJUSTED CONTRACT COST	$1,129,772.00

VENDOR # 16072 ACCOUNT # 00600106-432004

WORK: Utility Locating Services

CHANGE ORDER OF THE CONTRACT FOR UTILITY LOCATION SERVICES

WHEREAS: On September 30, 2020, the Board of the Buffalo Sewer Authority awarded a contract to On the Mark, LLC (OTM) for utility location services for the period from November 1, 2020 through June 30, 2021 at the total cost not to exceed $68,772.00 with up to four (4) one-year renewals beginning July 1, 2021; and

WHEREAS: On April 7, 2021, the Board authorized a change order due to larger than expected number of tickets and linear feet of markings for the amount of $50,000.00 to cover the costs through the end of the period on June 30, 2021; and

WHEREAS: On June 23, 2021, the Board authorized a one (1) year extension at a cost not to exceed $236,000.00 for fiscal year 2021-2022; and

WHEREAS: On June 22, 2022, the Board authorized a one (1) year extension at a cost not to exceed $200,000.00 for fiscal year 2022-2023; and

WHEREAS: On May 24, 2023, the Board authorized a one (1) year extension at a cost not to exceed $225,000.00 for fiscal year 2023-2024; and

WHEREAS: On June 26, 2024, the Board authorized a one (1) year extension at a cost not to exceed $250,000.00 for fiscal year 2024-2025; and

WHEREAS: The Principal Engineer and staff have determined that the use of internal resources for utility location services will likely provide a cost savings and better communication regarding upcoming projects moving forward, but the plurality of markings are done during the months of June-September and therefore any change in services are recommended for after this peak season; and

WHEREAS: OTM has agreed to extend this contract for four (4) months (July 1, 2025 - October 31, 2025) under the same terms and conditions for fiscal year 2024-2025; and

WHEREAS: Based on the Invoice amounts from the fiscal year 2024-2025 period of July 1, 2024 – October 31, 2024 the Principal Sanitary Engineer and staff recommend a change order at a total cost not to exceed $100,000.00 for the change order period (July 1, 2025 – October 31, 2025).

NOW THEREFORE BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to extend the contract with OTM for utility location services at a cost not-to-exceed $100,000.00 for the period July 1, 2025 - October 31, 2025. Account no. 00600106-432004 will be utilized for these services.

MOTION TO APPROVE

MADE BY DR. CAULFIELD

2ND BY MS. YOUNG -WATKINS

AYES 3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 14

CHANGE ORDER NO. 1 – CONTRACT NO. 82000072 DESTRO & BROTHERS CONCRETE CO., INC.

CONTRACTOR:	ORIGINAL CONTRACT COST	$4,850,600.00
Destro & Bros Concrete Co., Inc.	PREVIOUS CHANGE ORDERS	0.00
132 Dingens Street	THIS CHANGE ORDER	$2,000,000.00
Buffalo, NY 14206	ADJUSTED CONTRACT COST	$6,850,600.00
VENDOR NO. 254	ACCOUNT NO.	02000574-490740

WORK: Miscellaneous System Wide Sewer Repairs

DESCRIPTION OF CHANGE OR EXTRA WORK:

Item #1 Addition of North Ogden Street Sewer Extension Project

Item #2 Addition of Boyd Street Sewer and Waterline Replacement Project

Item #3 Addition of contingency funding to cover work through October 2025.

REASON FOR CHANGE OR EXTRA WORK:

Item #1 Nine properties have reported multiple backups on North Ogden and there are no record drawings or other documentation of public sewers having been constructed. This project will provide new mains and services for these homes while separating storm flows and replacing existing lead water services.

Item #2 In Winter of 2024-2025, multiple sewer main breaks were found in the Boyd Street sewer which lies immediately below the waterline and it was determined that the sewer main required replacement and the waterline would need to be replaced in order to facilitate this and that trying to bid as a separate contract would be more costly than using the existing miscellaneous system wide sewer repair contract.

Item #3 A new contract for miscellaneous system wide sewer repairs is not anticipated to be finalized until October after the peak summer construction season; providing contingency funding at this time will ensure that necessary repairs can be completed in the interim.

COST OF CHANGE OR EXTRA WORK:

Item #1 $455,150.00

Item #2 $1,137,300.00

Item #3 $407,550.00

THE TOTAL COST OF THE CHANGE OR EXTRA WORK: $ 2,000,000.00

WHEREAS: In Item No. 24, on July 26, 2023, the Board of the Buffalo Sewer Authority authorized the General Manager to enter into an agreement with Destro & Bros. Concrete Co., Inc. in the amount of $4,850,600.00 to perform miscellaneous sewer repair services with expenses to be charged to Account # 02000574-490740; and

WHEREAS: On August 28, 2023 Contract No. 82000072 was executed between the Buffalo Sewer Authority and Destro & Bros. Concrete Co., Inc. pursuant to the aforementioned Item No. 24 of the July 26, 2023, Board Meeting; and

WHEREAS: The Principal Sanitary Engineer and staff have reviewed a request for a Change Order No.1 to Contract No. 82000072 in the amount of $2,000,000.0 as detailed above and recommend its approval.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves Change Order No. 1 to Contract No. 82000072 as written in the above Agenda Item, increasing the contract cost in the amount of $2,000,000.00 making the adjusted contract cost $6,850,600.00. Expenses from this contract will be funded from Account No.02000574-490740.

MOTION TO APPROVE

MADE BY DR. CAULFIELD

2ND BY MS. YOUNG -WATKINS

AYES 3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 15

CHANGE ORDER NO. 2 – DESIGN, CONSTRUCTION ADMINISTRATION/ INSPECTION AND ENVIRONMENTAL REVIEW SERVICES FOR CONTRACT NO. 820000043 - DELAVAN TRUNK SEWER IMPROVEMENTS PROJECT

CONTRACTOR:	ORIGINAL CONTRACT COST	$277,425.00
Hazen and Sawyer	PREVIOUS CHANGE ORDER	$3,259,080.00
111 Broadway Suite 2101	THIS CHANGE ORDER (INCREASE)	$3,931,046.00
New York, New York 10006	ADJUSTED CONTRACT COST	$7,467,551.00

VENDOR NO. 15818 ACCOUNT NO. 02000542-432004

PROJECT: Delavan Trunk Sewer Improvements Project

DESCRIPTION OF CHANGE OR EXTRA WORK:

Item #1 Project management and coordination; including development and submission of required documentation to New York State for grant and loan applications.

Item #2 Contract 1 (Florida Street Sewer Reconstruction): Construction administration, resident engineering, field investigations and community betterment services including lead line replacements.

Item #3 Environmental Review per New York State Environmental Quality Review (SEQR) Act and Enhanced Participation Plan (EPPP) per Commissioner Policy-29 for Contract 2 and 3; including Environmental Impact Statement Development and public review, and implementation of project-specific EPPP.

Item #4 Contract 2 Spillman Sewer Design, including 60% design and 90% design milestones.

Item #5 Contract 3 Offline Storage Tank Design, including 30% design and 60% design milestones.

REASON FOR CHANGE OR EXTRA WORK:

Item #1 The scope of work and timeline for work has been extended and expanded due to site constraints and concerns and the availability of Buffalo Sewer staff for grant and loan submissions has become more constrained precipitating greater reliance on consulting staff.

Item #2 As design continues for Contracts 2 & 3, it has been determined to be helpful to maintain continuity between the construction administration for the ongoing Contract 1 to facilitate the sharing of new site data, as this work was not included in previous proposals, it is being proposed to be added at this time.

Item #3 The original project scope did not include an Enhanced Participation Plan (EPPP) per Commissioner Policy-29 and development of a full Environmental Impact Statement (EIS), but after consultation with NYSDEC and BSA leadership it was determined that these services were necessary for successful completion of the project and to ensure that significant construction change orders are not encountered.

Item #4 The original scope included a Tunnel within the Right-of-Way. After significant community input and analysis through the EIS and EPPP process, it was determined that an alternate approach of installing an offline storage (OLS) tank and completing the work in 3 primary contracts was the preferred approach from a construction cost and community impact perspective. Contract 2 includes development of a microtunnel to connect the OLS to the Scajaquada Tunnel and connection to an existing dropshaft tunnel. The current proposal covers this design work through 90% design and the end of 2025.

Item #5 The Contract 3 Offline Storage Tank Design replaces the original tunnel design and brings design through 60% design milestones and the end of 2025.

COST OF CHANGE OR EXTRA WORK:

Item #1 $103,800.00

Item #2 $558,596.00

Item #3 $563,181.00

Item #4 $1,029,698.00

Item #5 $1,675,771.00

THE TOTAL COST OF THE CHANGE OR EXTRA WORK $3,931.046.00

The total INCREASE to the contract as a result of this Change Order is $3,931,046.00

WHEREAS: In Item No. 13, on November 22, 2021, the Board of the Buffalo Sewer Authority prequalified five (5) engineering firms for submission of proposals for the engineering services for future real time control projects; and

WHEREAS: In Item No. 18, on May 4, 2022, the Board of the Buffalo Sewer Authority authorized the General Manager to enter into an agreement with Hazen and Sawyer; one of those five engineering firms which were pre-qualified on November 22, 2021, in the amount of $277,425.00 to perform preliminary design services for the Jefferson Avenue Real Time Control (RTC) Smart Sewer Project (now named the Delavan Trunk Sewer Improvements Project); and

WHEREAS: In Item 17, on July 26, 2023, the Board of the Buffalo Sewer Authority authorized Hazen to perform Scajaquada Tunnel Investigation and Inspections, as well as Design and Bid Phase Services for Contract 1 of the Delavan Trunk Sewer Improvements Project in the amount of $3,259,080.00; and

WHEREAS: The Principal Sanitary Engineer and staff have reviewed a request for a Change Order No. 2 to Contract No. 82000043 in the amount of $3,931,046.00 as detailed above and recommend its approval.

NOW THEREFORE

BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves Change Order No. 1 to Contract No. 82000043 as written in the above Agenda Item, increasing the contract cost in the amount of $3,931,046.00, making the adjusted contract cost $7,467,551.00. The cost of this contract will be funded from Account no. 02000542-432004.

MOTION TO APPROVE

MADE BY DR. CAULFIELD

2ND BY MS. YOUNG -WATKINS

AYES 3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 16

ADOPTION OF A STATE ENVIRONMENTAL QUALITY REVIEW ACT POSITIVE DECLARATION FOR THE DELAVAN TRUNK SEWER IMPROVEMENTS PROJECT (SPP 333 CSO-053 11) AND NOTICE OF PUBLIC HEARINGS AND PUBLIC COMMENT PERIOD ON THE PROJECT'S DRAFT ENVIRONMENTAL IMPACT STATEMENT

WHEREAS: The Buffalo Sewer Authority (the "Authority") was created by New York Public Authorities Law (the "Public Authorities Law") Section 1177 (the "Authority Act") and is authorized and empowered by the Public Authorities Law Article 5, Title 8 to provide for the jurisdiction, control, possession, supervision and use of the "facilities", as defined in Section 1176(10) of the Authority Act, including but not limited to the sewage treatment plant, storm water and sewage collection system constituting the sewer system that serves the City of Buffalo (the "City") and neighboring communities (the "Sewer System"); and

WHEREAS: Pursuant to Section 1179 of the Authority Act, the City assigned, transferred and dedicated to the Authority the jurisdiction, control, supervision, possession and use of the Sewer System; and

WHEREAS: The Authority proposes to upgrade the Sewer System along East Delavan Avenue and Spillman Place to control combined sewer overflow (CSO) discharges to the Scajaquada Creek ("the Project"); and

WHEREAS: The Project will reduce the number of CSO activation events to the Scajaquada Creek; and

WHEREAS: In accordance with Part 617 of the implementing regulations pertaining to Article 9 (State Environmental Quality Review Act – "SEQRA") of the Environmental Conservation Law, the Board has determined that the above project is classified as an Unlisted Action; and

WHEREAS: The Authority is acting as Lead Agency in accordance with SEQRA and has undertaken a coordinated review with various public agencies; and

WHEREAS: Parts 1, 2, and 3 of the SEQRA Long Environmental Assessment Form (EAF) evaluating the Project have been completed (Attachments F-I) and the Authority has considered the criteria contained in 6 NYCRR Part 617.7 to determine whether the proposed action may have a significant adverse impact on the environment; and

WHEREAS: Based on its review, the Lead Agency finds that the proposed action may result in significant adverse environmental impacts to the environment and, therefore, has issued a Positive Declaration for the project; and

WHEREAS: The issuance of a Positive Declaration requires completion of a Draft Environmental Impact Statement (DEIS) and associated opportunity for public comment; and

WHEREAS: A Draft Scope of Work for the DEIS was completed, public hearings were held on (October 15th and 17th, 2024) and public comments were received for a period of 30 days.

NOW THEREFORE
BE IT RESOLVED:

The Board of the Buffalo Sewer Authority hereby issues a Positive Declaration pursuant to SEQRA for the proposed Delavan Trunk Sewer Improvements Project (SPP 333 CSO-053_11), a Notice of Completion of the DEIS for the Project, and an intent to hold public hearings during a public comment period to receive feedback on the DEIS through August 22, 2025.

MOTION TO	APPROVE
MADE BY	MS. YOUNG -WATKINS
2ND BY	DR. CAULFIELD
AYES	3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 17

ADJOURNMENT OF MEETING

MOTION TO ADJOURN

MADE BY MS. YOUNG -WATKINS

2ND BY DR. CAULFIELD

AYES 3 NOES 0

Board Meeting of June 25, 2025

MINUTES OF THE REGULAR MEETING

OF THE

BUFFALO SEWER AUTHORITY

June 25, 2025

BUFFALO SEWER AUTHORITY

REGULAR MEETING
June 25, 2025
9:00 A.M.

Buffalo City Hall, 65 Niagara Square Room 1038
Teleconference +1 917- 933-2166, ID #605 167 358#

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	Roll Call	
1	Motion to Adopt the Minutes of May 28, 2025	59392
	Enter into Executive Session	59393
1-A	Authorization For the Buffalo Sewer Authority to Enter into a Temporary Easement Agreement for An Easement At 16 Black Rock Harbor Road And 2200 Niagara Street	59394
2	Approval of Consent Agenda	59395-06
	A. Informative: Temporary Investments	
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4	Authorization to Purchase Cyber Insurance	59408
5	Authorization for Renewal of Annual Customer Support Plan	59409

6	Extension of the Contract for In-Plant High Pressure Steam System Maintenance Services	59410-11
7	Extension of the Contract for In-Plant Electrical Maintenance Services	59412-13
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9	Reports on Bids Received for the Purchase of New & Unused Permanently Mounted Gas Detector Systems	59415
10	Authorization for Original Equipment Manufacturer Purchases Over $20,000.00 and Services Over $35,000.00 for Fiscal Year 2025-2026	59416-17
11	Authorization for Original Equipment Manufacturer Purchases Over $20,000.00 From Rexel USA	59418
12	Change Order No. 1– Scajaquada Creek and Black Rock Canal Smart Sewer Project Contract No 82000074	59419-20
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14	Change Order No. 1 – Contract No. 82000072 Destro & Brothers Concrete Co., Inc.	59423-24
15	Change Order No. 2 – Design, Construction Administration/ Inspection and Environmental Review Services for Contract No. 820000043 - Delavan Trunk Sewer Improvements Project	59425-27
16	Adoption of a State Environmental Quality Review Act Positive Declaration for The Delavan Trunk Sewer Improvements Project (SPP333 CSO-053_11) And Notice of Public Hearings and Public Comment Period on The Project's Draft Environmental Impact Statement	59428-29
17	Adjournment of Meeting	59430

Attachments

Attachment A: Capital Assist Guide

Attachment B: Purchasing Guidelines

Attachment C: Fund Balance Policy

Attachment D: Investment Guidelines

Attachment E: Credit Card Policy

Attachment F: Full EAF Part 1

Attachment G: Full EAF Supplement

Attachment H: Full EAF Part 2

Attachment I: Full EAF Part 3

CALL OF THE ROLL

Present:	Herbert Bellamy	Chairman of the Board
	Thomas E. Caulfield, PhD.	Board Member
	Hope Young Watkins	Board Member
	Charles Riley	Executive Secretary
	Cheryl Colston, Esq.	General Counsel
	Alexander Emmerson	Treatment Plant Superintendent
	Rosaleen Nogle, P.E.	Principal Sanitary Engineer
	Timothy Blake	Senior Instrument Technician
	Gelea James	Director of Human Resources
	LaToya Cunningham	Special Assistant
	Joel Renzoni	Director of Sewer Maintenance
	Desiree Briggs	Preventative Maintenance Coordinator
	Carol Burns	Executive Assistant to Comptroller
	Laura Surdej	Erie County Department of Sewerage
	Delano Dowell	City of Buffalo Deputy Comptroller
Absent:	Christopher Roosevelt	Vice Chairman of the Board
	Patrick Sole Jr.	Board Member

The meeting was called to order at 9:41 AM . A quorum was present.

ITEM NO. 1

Motion to Adopt the Minutes of the Meeting of May 28, 2025

MOTION TO ADOPT

MADE BY MS. YOUNG -WATKINS

2ND BY DR. CAULFIELD

AYES 3 NOES 0

Board Meeting of June 25, 2025

MOTION TO	Enter into Executive Session Pursuant to Open Meetings Law, Section 102 (3) (h) (d)
MADE BY	DR. CAULFIELD
2ND BY	MS. YOUNG -WATKINS
AYES	3 NOES 0

Board Meeting of May 28, 2025

ITEM NO. 1-A

AUTHORIZATION FOR THE BUFFALO SEWER AUTHORITY TO ENTER INTO A TEMPORARY EASEMENT AGREEMENT FOR AN EASEMENT AT 16 BLACK ROCK HARBOR ROAD AND 2200 NIAGARA STREET

WHEREAS: The Buffalo Sewer Authority is planning sewer improvement work that includes constructing combined sewer overflow backwater gate flooding mitigation and Real Time Control related improvements; and

WHEREAS: The sewer improvement project is located at approximately 16 Black Rock Harbor Road and 2200 Niagara Street; and

WHEREAS: To perform the construction work on the project to create the Real Time Control improvements to the Buffalo Sewer Authority subsurface sewer facilities, the Buffalo Sewer Authority needs access to portions of property that the County of Erie owns, known as Black Rock Harbor Canal Park; and

WHEREAS: The City of Buffalo, on behalf of the Buffalo Sewer Authority, is acquiring the property interests from the County of Erie at no monetary cost to the City of Buffalo and the Buffalo Sewer Authority.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority authorizes the Principal Sanitary Engineer and the Executive Secretary to enter into a temporary easement at no cost to the Buffalo Sewer Authority for property located at 16 Black Rock Harbor Road and 2200 Niagara Street for the Buffalo Sewer Authority's Sewer Real Time Control Project.

MOTION TO APPROVE

MADE BY DR. CAULFIELD

2ND BY MS. YOUNG -WATKINS

AYES 3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 2

APPROVAL OF CONSENT AGENDA

CONTENTS

A. Informative: Temporary Investments

B. Informative: Reallocation of Funds

C. Contract Approval – Legal Services

D. Contract Approval – Legal Services

E. Contract Approval – Legal Services

F. Contract Approval – Legal Services

G. Tuition Reimbursement

H. Tuition Assistance

I. Confirmation Of Appointments

MOTION TO APPROVE

MADE BY DR. CAULFIELD

2ND BY MS. YOUNG -WATKINS

AYES 3 NOES 0

Board Meeting of June 25, 2025

2-A

INFORMATIVE: TEMPORARY INVESTMENTS (CERTIFICATES OF DEPOSIT AND TREASURY BILLS)

As of May 31st, 2025

ISSUE DATE	MATURITY DATE	TOTAL DAYS	AMOUNT	BANK	RATE	INTEREST AMOUNT
CONSTRUCTION/CAPITAL IMPROVEMENT FUND						
31-Jul-12	**MONEY MARKET**		$3,136,628.85	Key	0.01%	Public NOW
8-May-25	5-Jun-25	28	$8,997,722.43	Key Banc Capital	4.17%	$29,277.57
22-May-25	20-Jun-25	29	$12,099,121.92	Key Banc Capital	4.18%	$40,878.08
			$24,233,473.20			
LIABILITY AND CASUALTY RESERVE FUND						
31-Jul-12	**MONEY MARKET**		$223,430.19	Key	0.01%	Public NOW
17-Apr-25	17-Jul-25	91	$787,609.50	Key Banc Capital	4.17%	$8,390.50
			$1,011,039.69			
OPERATING FUND						
31-Jul-12	**SUPER NOW**		**$3,622,656.78**	Key	0.01%	Public NOW
TRUST & AGENCY FUND						
31-Jul-12	**SUPER NOW**		**$22,301.22**	Key	0.01%	Public NOW
SURPLUS FUND						
			$1,467.83	Wilmington U.S. Treasury	4.79%	
15-May-25	23-Oct-25	161	$10,003,428.46	M&T Securities	4.09%	$186,571.54
			$10,004,896.29			
NET REVENUE FUND						
			$1,239,744.47	Wilmington U.S. Treasury		
29-May-25	26-Jun-25	28	$4,799,420.80	M&T Securities	4.16%	$15,579.20
			$6,039,165.27			

BSA 2021 EIB FUND

			$325,688.15	Cash	0.00%	
12-Dec-24	5-Jun-25	175	$9,982,955.78	M&T Securities	4.16%	$206,044.22
19-Dec-24	5-Jun-25	168	$10,101,004.00	M&T Securities	4.14%	$198,996.00
8-May-25	30-Oct-25	175	$32,615,178.37	Key Banc Capital	4.06%	$656,821.63
			$53,024,826.30			

DEBT RESERVE FUND

				Series J		
02-Jul-14	13-Nov-33	7076	**$279,018.44**	UST State/Local Govt	2.70%	
				Series K		
02-Jul-14	15-Feb-33	6803	**$194,497.05**	UST State/Local Govt	2.70%	
				Series L		
12-Nov-15	1-Oct-35	7263	**$689,547.00**	UST State/Local Govt	2.44%	
				Series M		
27-Jun-14	1-May-44	10901	**$585,063.94**	UST State/Local Govt	2.70%	
				Series N		
15-Nov-12	15-Apr-32	7091	**$2,167,157.00**	UST State/Local Govt	2.42%	
			EFC 2021			
			$3.14	Wilmington U.S. Treasury	4.79%	
13-Feb-25	7-Aug-25	175	$358,563.08	M&T Securities	4.18%	$7,436.92
			$358,566.22			

DSF PRIN &INT

$0.01 Wilmington Fund

DSF 2021 EIB

$1,863,041.78 Wilmington Fund 4.79%

RECEIVE & FILE

Board Meeting of June 25th, 2025

2-B

INFORMATIVE: REALLOCATION OF FUNDS

The following budgetary transfers have been made to cover unforeseen shortages. These transfers do not change the total amount of the Buffalo Sewer Authority's operating budget.

Wastewater Treatment Plant

05/22/2025	00230106 Refuse Disposal Services	-$14,800.00	00650103 SWRM Gas	$14,800.00
05/22/2025	00230106 Refuse Disposal Services	-$5,401.00	00390103 Hamburg Drain Float	$5,401.00
05/22/2025	00380106 INCIN Refuse Disposal	-$29,871.00	00300103 BLOW Electric Light & Power	$29,871.00
05/28/2025	00200105 PLAN Equipment Maintenance	-$1,582.00	00200107 PLAN Office Equipment	$1,582.00

Industrial Waste

05/15/2025	00550106 IWS Eng and Tech	-$10,022.00	00550107 IWS Operating Equipment	$10,022.00
05/22/2025	00550106 IWS Eng and Tech	-$1,849.00	00550105 IWS Equipment Maintenance	$1,849.00

Sewer Maintenance Division

05/16/2025	00660105 SWRR Road & Highway	-$651.84	00670105 SWRC Chemicals & Gases	$651.84
05/22/2025	00700106 EDU, Licenses & Training	-$410.54	00700105 Clothing Safety & MED	$410.54
05/22/2025	00680105 Equipment Maint. & Repair	-$1,000.00	00670105 SWRC Chemicals & Gases	$1,000.00
05/22/2025	00680105 Equipment Maint. & Repair	-$1,100.00	00690106 AUTO Repairs	$1,100.00
05/30/2025	00680105 Equipment Maint. & Repair	-$1,000.00	00670105 SWRC Chemicals & Gases	$1,000.00
06/04/2025	00700106 EDU, Licenses & Training	-$316.80	00700105 GI Agriculture & Botanical	$316.80
06/04/2025	00650106 SWRM ED, LIC & Training	-$9,440.00	00660106 SWRR Service & Equipment	$9,440.00

RECEIVE & FILE

Board Meeting of June 25, 2025

2-C

CONTRACT APPROVAL – LEGAL SERVICES

WHEREAS: The Buffalo Sewer Authority has many complex regulatory, enforcement, and environmental matters that require the skills of a specialized attorney; and

WHEREAS: Barnes & Thornburg LLP has a national team of attorneys who have significant experience in such areas as combined sewer overflow, sanitary sewer overflow, and in negotiating agreements with state and federal agencies; and

WHEREAS: Upon request, Barnes & Thornburg, LLP has submitted a proposed retainer agreement to continue to provide legal services for the Buffalo Sewer Authority; and

WHEREAS: The Executive Secretary and the Principal Sanitary Engineer recommend approval to retain Barnes & Thornburg, LLP for legal services on an as-needed basis for the 2025-2026 fiscal year.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and the Principal Sanitary Engineer to retain Barnes & Thornburg, LLP for legal services on an as-needed basis in an amount not to exceed $25,000.00 for the period July 1, 2025 through June 30, 2026. Expenses for these services will be charged to account no. 00550106-432003.

2-D

CONTRACT APPROVAL – LEGAL SERVICES

WHEREAS: The Buffalo Sewer Authority has many complex regulatory, enforcement, and environmental matters that require the skills of a specialized attorney; and

WHEREAS: Barclay Damon, LLP has historically represented the Buffalo Sewer Authority in these areas as well as litigation and arbitration matters as needed; and

WHEREAS: Upon request, Barclay Damon, LLP has submitted a proposed retainer agreement to continue to provide legal services for the Buffalo Sewer Authority; and

WHEREAS: The Executive Secretary and the Principal Sanitary Engineer recommend approval to retain Barclay Damon, LLP for legal services on an as-needed basis for the 2025-2026 fiscal year.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and the Principal Sanitary Engineer to retain Barclay Damon, LLP for legal services on an as-needed basis in an amount not to exceed $150,000.00 for the period July 1, 2025 through June 30, 2026. Expenses for these services will be charged to account no. 00550106-432003.

2-E

CONTRACT APPROVAL – LEGAL SERVICES

WHEREAS: The Buffalo Sewer Authority has many complex general labor and employment matters as well as contract negotiations that require the skill of specialized employment and labor law attorneys; and

WHEREAS: Phillips Lytle LLP has extensive experience in these areas; and

WHEREAS: Upon request, Phillips Lytle LLP has submitted a proposed retainer agreement to provide legal services for the Buffalo Sewer Authority; and

WHEREAS: The Executive Secretary and the Principal Sanitary Engineer recommend approval to retain Phillips Lytle LLP for legal services on an as-needed basis for the 2025-2026 fiscal year.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and the Principal Sanitary Engineer to retain Phillips Lytle LLP for legal services on an as-needed basis in an amount not to exceed $200,000.00 for the period July 1, 2025 through June 30, 2026. Expenses for these services will be charged to account no. 00550106-432003.

2-F

CONTRACT APPROVAL – LEGAL SERVICES

WHEREAS: The Buffalo Sewer Authority has many complex regulatory, enforcement and governmental matters that require the skills of a specialized attorney; and

WHEREAS: Lippes Mathias LLP has a national team of attorneys who have significant experience in such areas as municipal law, human resources training and counseling and corporate governance; and

WHEREAS: Upon request, Lippes Mathias LLP has submitted a proposed retainer agreement to provide legal services for the Buffalo Sewer Authority; and

WHEREAS: The Executive Secretary and the Principal Sanitary Engineer recommend approval to retain Lippes Mathias LLP for legal services on an as-needed basis for the 2025-2026 fiscal year.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and the Principal Sanitary Engineer to retain Lippes Mathias LLP for legal services on an as-needed basis in an amount not to exceed $25,000.00 for the period July 1, 2025 through June 30, 2026. Expenses for these services will be charged to account no. 00550106-432003.

2-G

TUITION REIMBURSEMENT

WHEREAS: In accordance with the Agreements between the Buffalo Sewer Authority and CSEA Local 815 and the Communications Workers of America, the following Buffalo Sewer Authority employees have applied for Tuition Reimbursement:

EMPLOYEE	SCHOOL	COURSE	TUITION%	REIMBURSEMENT TOTAL
Edwin Geter	Buffalo State University	Nonprofit Grants Management	90%	$1,291.70
Daniel O'Sullivan	University at Buffalo	Civil Engineering Materials	50%	$707.00
Daniel O'Sullivan	University at Buffalo	Engineering Computations	75%	$794.93

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves the above applications for Tuition Reimbursement totaling $2,793.63. These Reimbursements will be charged to account no. 00200106-421026.

2-H

TUITION ASSISTANCE

WHEREAS: In accordance with the Agreements between the Buffalo Sewer Authority and CSEA Local 815 and the Communications Workers of America, the following Buffalo Sewer Authority employee has applied for Tuition Assistance.

EMPLOYEE	SCHOOL	COURSE	TUITION
Brianna D. Larkin	Erie 1 BOCES	Welding Technology	$5,000.00
Joel Woodell	D'Youville University	Assessment I	$3,960.00
Joel Woodell	D'Youville University	Psychometrics	$3,960.00

WHEREAS: No Funds will be expended at this time.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves the above application for Tuition Assistance

2-I

CONFIRMATION OF APPOINTMENTS

ACCOUNT CLERK-TYPIST (PERMANENT)
TREATMENT PLANT ADMINISTRATION
$47,152 PER ANNUM
EFFECTIVE: JUNE 6, 2025

CATHERINE AMOIA
49 TREEHAVEN RD
BUFFALO, NY 14215

PRINCIPAL CLERK (PERMANENT)
TREATMENT PLANT ADMINISTRATION
$73,813 PER ANNUM
EFFECTIVE: JUNE 6, 2025

PATRICIA PINELLI
92 MIDLAND ST.
BUFFALO, NY 14220

ASSISTANT SANITARY CHEMIST (PERMANENT)
SEWAGE TREATMENT PLANT
$67,653 PER ANNUM
EFFECTIVE: MAY 26, 2025

LYNDA BRUNDIGE
26 18TH ST
BUFFALO, NY 14213

ASSISTANT SANITARY CHEMIST (PERMANENT)
SEWAGE TREATMENT PLANT
$59,086 PER ANNUM
EFFECTIVE: MAY 26, 2025

CHRISTOPHER JONES
417 COLVIN AVE.
BUFFALO, NY 14216

SANITARY CHEMIST (PERMANENT)
SEWAGE TREATMENT PLANT
$84,440 PER ANNUM
EFFECTIVE: MAY 26, 2025

RAECHEL MILLER
540 SAINT LAWRENCE AVE.
BUFFALO, NY 14216

SANITARY CHEMIST (PERMANENT)
SEWAGE TREATMENT PLANT
$79,720 PER ANNUM
EFFECTIVE: MAY 26, 2025

CRAIG RYBAK
361 TAUNTON
BUFFALO, NY 14216

LABORER II (PERMANENT)
SEWER MAINTENANCE DIVISION
$23.95 PER HOUR
EFFECTIVE: MAY 26, 2025

JUSTIN BLACK
220 KAY ST.
BUFFALO, NY 14215

WHEREAS: The preceding appointments were made by the Executive Secretary and Principal Sanitary Engineer since the last Board Meeting; and

WHEREAS: The Executive Secretary and Principal Sanitary Engineer requests confirmation of each appointment.

NOW THEREFORE
BE IT RESOLVED: That the preceding appointments are hereby confirmed by the Board of the Buffalo Sewer Authority

ITEM NO. 3

REVISION TO BUFFALO SEWER AUTHORITY POLICIES AND GUIDELINES

WHEREAS: The Buffalo Sewer Authority has developed the following policies and guidelines:
Capital Asset Guide (Attachment A)
Purchasing Guidelines (Attachment B)
Fund Balance Policy (Attachment C)
Investment Guidelines (Attachment D)
Credit Card Policy (Attachment E); and

WHEREAS: These policies and guidelines shall be annually reviewed and approved by the Board.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby adopts the policies and guidelines listed above.

MOTION TO APPROVE

MADE BY MS. YOUNG -WATKINS

2ND BY DR. CAULFIELD

AYES 3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 4

AUTHORIZATION TO PURCHASE CYBER INSURANCE

WHEREAS: The Buffalo Sewer Authority currently receives cyber insurance coverage through Coalition Insurance Solutions; and

WHEREAS: Coalition Insurance Solutions has proposed a renewal extension of the Authority's cyber insurance coverage for the period July 1, 2025 through June 30, 2026, with no increase to the current cost; and

WHEREAS: The Authority's insurance broker, Gallagher Insurance, received proposals from Coalition Insurance Solutions and Corvus Insurance. It was determined that the proposal from Coalition Insurance Solutions offered better pricing, terms, and conditions and provides stronger coverage than the proposal from Corvus Insurance; and

WHEREAS: The Executive Secretary and the Director of Information Technology have carefully reviewed the policies and recommend accepting the proposal from Coalition Insurance Solutions; and

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves the purchase of a Cyber Insurance Policy from Coalition Insurance Solutions for a cost not to exceed $28,695.18 for the period July 1, 2025 – June 30, 2026. These costs shall be charged to account nos. 00200108-452000 and 00650108-452000 on a pro-rata-basis.

MOTION TO APPROVE

MADE BY MS. YOUNG -WATKINS

2ND BY DR. CAULFIELD

AYES 3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 5

AUTHORIZATION FOR RENEWAL OF ANNUAL CUSTOMER SUPPORT PLAN

WHEREAS: The Buffalo Sewer Authority utilizes International Business Machines Maximo Maintenance System software for asset management, work order tracking, purchasing and inventory control program; and

WHEREAS: An annual customer support plan is necessary to keep current, receive the latest releases, and receive unlimited off-site support; and

WHEREAS: The Treatment Plant Superintendent, Director of Information Technology and staff recommend renewal of the annual customer support plan with International Business Machines Corporation for the period August 1, 2025, through July 31, 2026 for a cost of $122,341.85; and

WHEREAS: Board approval is required on the purchase of services over $35,000.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to renew the annual customer support plan with International Business Machines Corporation for a one-year period, August 1, 2025 through July 31, 2026, at a cost not to exceed $122,431.85. Account no. 00200106-443420 will be charged for this service.

MOTION TO APPROVE

MADE BY MS. YOUNG -WATKINS

2ND BY DR. CAULFIELD

AYES 3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 6

EXTENSION OF THE CONTRACT FOR IN-PLANT HIGH PRESSURE STEAM SYSTEM MAINTENANCE SERVICES

WHEREAS: On May 25, 2022, the Board of the Buffalo Sewer Authority awarded a contract to Quackenbush Company, Inc. for In-Plant High Pressure Steam System Maintenance Services for the period July 1, 2022 to June 30, 2023, with an option to renew for four (4) one-year periods, at an annual cost not to exceed $576,700.00; and

WHEREAS: On July 26, 2023, the Board of the Buffalo Sewer Authority authorized the General Manager to renew the contract with Quackenbush Company, Inc., for In-Plant High Pressure Steam System Maintenance Services for the period July 1, 2023 to June 30, 2024, at a cost not to exceed $576,700.00; and

WHEREAS: On April 3, 2024, the Board of the Buffalo Sewer Authority approved Change Order No. 1 to Contract No. 82000045 increasing the contract cost in the amount of $80,000.00 for additional work making the adjusted contract cost $1,233,400.00; and

WHEREAS: On July 31, 2024, the Board authorized the extension of the contract for the period July 1, 2024 to June 30, 2025 at a cost not to exceed $576,700.00 making the adjusted contract cost $1,810,100.00; and

; and

WHEREAS: On February 19, 2025, the Board authorized the Change Order No.. 2 to Contract No. 82000045 increasing the contract cost in the amount of $240,000.00 making the adjusted contract cost $2,050,100.00; and

WHEREAS: Quackenbush Company, Inc., has agreed to extend this contract for one (1) additional year under the same terms and conditions with an increase in the prevailing wage adjustment the total cost not to exceed $760,000.00 for fiscal year 2025-2026 making the adjusted contract cost $2,810,100.00; and

WHEREAS: The Treatment Plant Superintendent and staff recommend this extension at a total cost not to exceed $760,000.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to renew the contract with Quackenbush Company, Inc., for In-Plant High Pressure Steam System Maintenance Services for the period July 1, 2025 to June 30, 2026; at a total cost not to exceed $760,000.00. Expenses for this contract will be charged to account no. 00380106-443421.

MOTION TO TABLE

MADE BY DR. CAULFIELD

2ND BY MS. YOUNG -WATKINS

AYES 3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 7

EXTENSION OF THE CONTRACT FOR IN-PLANT ELECTRICAL MAINTENANCE SERVICES

WHEREAS: On June 23, 2021, the Board of the Buffalo Sewer Authority awarded a contract to O'Connell Electric Company, Inc., for In-Plant Electrical Maintenance Services at a total cost not to exceed $600,000.00 for the fiscal year 2021-2022 with up to four (4) one-year renewals beginning July 1, 2021; and

WHEREAS: On June 22, 2022, O'Connell Electric Company, Inc., agreed to extend this contract for one (1) additional year at a cost not to exceed $1,418,616.00 for fiscal year 2022-2023; and

WHEREAS: On May 3, 2023, O'Connell Electric Company, Inc., agreed to extend this contract for one (1) additional year at a cost not to exceed $2,179,717.00 for fiscal year 2023-2024; and

WHEREAS: On June 26, 2024, O'Connell Electric Company, Inc., agreed to extend this contract for one (1) additional year at a cost not to exceed $2,210,482.00 for fiscal year 2024-2025; and

WHEREAS: On March 12, 2025, Change Order No. 1 was approved in the amount of $359,121.35, bringing the contract total to $6,767,936.35; and

WHEREAS: O'Connell Electric Company, Inc., has agreed to extend this contract for one (1) additional year for fiscal year 2025-2026 for an amount not to exceed $2,609,191.09; This renewal amount represents additional identified work including preventative & de-energized maintenance, equipment repairs, general maintenance & service, lighting repairs & installations, process improvements and anticipated labor escalation; and

WHEREAS: $1,462,997.11 of the total $2,609,191.09 renewal amount represents both deferred and planned overall facility de-energized electrical preventative maintenance, replacement of multiple facility main breakers, along with replacement of the raw wastewater substation yard medium voltage (13.8kV) duplex switch; and

WHEREAS: The Superintendent of Mechanical Maintenance, the Treatment Plant Superintendent and staff recommend this extension at a total cost not to exceed $2,609,191.09.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to renew the contract with O'Connell Electric Company, Inc., for In-Plant Electrical Services for the period July 1, 2025 through June 30, 2026, at a total cost not to exceed $2,609,191.09, brining the total contract cost to $9,377,127.44 Expenses for this contract will be charged to account no. 00520106-443421.

MOTION TO TABLE

MADE BY DR. CAULFIELD

2ND BY MS. YOUNG -WATKINS

AYES 3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 8

EXTENSION OF THE CONTRACT FOR MEDIUM AND LARGE MOTOR TURNKEY MAINTENANCE SERVICES

WHEREAS: On May 29, 2024, the Board of the Buffalo Sewer Authority authorized the General Manager to enter into and execute a contract with Hannon Electric Company, to provide Large Motor Turnkey Maintenance services for the period July 1, 2024 to June 30, 2025 at $300,000.00, with an option to renew for four (4) one-year periods; and

WHEREAS: On March 12, 2025, Change Order No. 1 was approved in the amount of $249,471.00, bringing the contract total to $549,471.00 for fiscal year 2024-2025; and

WHEREAS: Hannon Electric Company has agreed to extend this contract for one (1) additional year for fiscal year 2025-2026 for an amount not to exceed $800,000.00; and

WHEREAS: $535,000.00 of the total $800,000.00 renewal amount represents repairs to various large motors. These repairs will increase overall process reliability and prevent future more costly and time-consuming repairs and/or replacements; and

WHEREAS: The Superintendent of Mechanical Maintenance, the Treatment Plant Superintendent and staff recommend this extension at a total cost not to exceed $800,000.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to renew the contract with Hannon Electric Company, to provide Large Motor Turnkey Maintenance services for the period July 1, 2025 through June 30, 2026, at a total cost not to exceed $800,000.00, bringing the total contract cost to $1,044,471.00. Expenses for this contract will be charged to account no. 00520106-443421.

MOTION TO	APPROVE
MADE BY	DR. CAULFIELD
2ND BY	MS. YOUNG -WATKINS
AYES	3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 9

REPORTS ON BIDS RECEIVED FOR THE PURCHASE OF NEW & UNUSED PERMANENTLY MOUNTED GAS DETECTOR SYSTEMS

WHEREAS: Formal bids were advertised and solicited for the purchase of new & unused permanently mounted gas detector systems; and

WHEREAS: The following bids were received and opened by the Buffalo Sewer Authority Purchase Department on May 20, 2025:

Vendor:	**Total Cost:**
Bomark Instruments, Inc.	$82,775.00
Sensidyne C/O Trinova	$112,443.30

: and

WHEREAS: The Superintendent of Mechanical Maintenance and staff reviewed the quotes received and recommend awarding the entire purchase to the lowest bidder, Bomark Instruments, Inc., at a total cost of $82,775.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to purchase the above listed new & unused permanently mounted gas detector systems from the lowest bidder, Bomark Instruments, Inc., at a total cost not to exceed $82,775.00. This purchase will be charged to account nos. 00400105-466107, 00420105-466107, 00410105-466107, 00230105-466107, 00380105-466107, 00250105-466107, 00260105-466107 and 00210105-466107.

MOTION TO APPROVE

MADE BY MS. YOUNG -WATKINS

2ND BY DR. CAULFIELD

AYES 3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 10

AUTHORIZATION FOR ORIGINAL EQUIPMENT MANUFACTURER PURCHASES OVER $20,000.00 AND SERVICES OVER $35,000.00 FOR FISCAL YEAR 2025-2026

WHEREAS: The Buffalo Sewer Authority designated various original equipment manufacturers, and/or their local representatives, as sole sources for the purchase of various commodities, technology, and/or services for the fiscal year 2025-2026; and

WHEREAS: Based upon historical usage and the fiscal budget plan for this fiscal year of 2025-2026, the Superintendent of Mechanical Maintenance has determined that purchases for the following sole source designated vendors for various commodities, technologies and/or services shall not exceed those listed below for the fiscal year 2025-2026:

Original Equipment Manufacturer	**Estimated Purchases/Services**
AAF McQuay	$30,000.00
ABB Inc., Instrumentation Department	$50,000.00
Allen Bradley	$30,000.00
Allen Sherman Hoff	$60,000.00
Auma Actuators	$150,000.00
Blackmer, Division of Dover Energy Inc.	$110,000.00
Comairco	$50,000.00
Duperon	$15,000.00
EIM Controls	$75,000.00
Emerson Process Management	$50,000.00
Envirocare	$80,000.00
Evoqua Water Technologies	$90,000.00
Fairbanks Morse	$80,000.00
GEA Mechanical Equipment US Inc. -GEA Westfalia Separator Division	$425,000.00
Gorman-Rupp Company	$90,000.00
Goulds/ITT IP Division	$40,000.00
Henry Pratt	$20,000.00
Infilco	$100,000.00
Ingersoll-Rand	$160,000.00
JDV	$70,000.00
JWC Environmental, LLC	$80,000.00
Limitorque (Division of Flowserve)	$60,000.00
Royal Purple	$5,000.00
Schwing Bioset	$40,000.00
Serpentix	$60,000.00

Smith & Loveless, Inc.	$70,000.00
Val-Matic Valve	$30,000.00
Val-Matic Valve (Scum Ejector Parts)	$ 50,000.00
Vaughan Co., Inc.	$120,000.00
W.S.G. & Solutions	$75,000.00
Xylem Water Solutions (ITT Flygt Pumps)	$140,000.00
Xylem Water Solutions (Allis Chalmers Pumps)	$40,000.00
YSI Incorporated	$30,000.00
APGN INC	$50,000.00

; and

WHEREAS: The Superintendent of Mechanical Maintenance, Treatment Plant Superintendent, and staff recommend approval for the estimated amounts listed for the various original equipment manufacturers for purchases/services anticipated for fiscal year 2025-2026; and

WHEREAS: Board approval is required on purchases made over $20,000.00 and services over $35,000.00.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to purchase original equipment commodities, as needed, and services from the original equipment manufacturers, or their designated local representatives, at a total cost not to exceed the listed amounts for fiscal year 2025-2026 and to charge the appropriate department accounts.

MOTION TO APPROVE

MADE BY DR. CAULFIELFD

2ND BY MS. YOUNG -WATKINS

AYES 3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 11

AUTHORIZATION FOR ORIGINAL EQUIPMENT MANUFACTURER PURCHASES OVER $20,000.00 FROM REXEL USA

WHEREAS: The Buffalo Sewer Authority designated various original equipment manufacturers, and/or their local representatives, as sole sources for the purchase of various commodities, technology, and/or services for the fiscal year 2024-2025; and

WHEREAS: The Buffalo Sewer Authority has standardized programmable logic controllers (PLCs) using Allen-Bradley products including those associated with the existing real time control facilities; and

WHEREAS: Rexel USA is the sole source provider of Allen-Bradley PLCs; and

WHEREAS: The existing PLCs for the oldest real time control facilities have reached the end of their useful lives and require replacement; and

WHEREAS: Rexel USA has provided a quote of $50,016.11 for replacement parts and equipment; and

WHEREAS: Board approval is required on purchases made over $20,000.00 and services over $35,000.00; and

WHEREAS: The Principal Sanitary Engineer, Superintendent of Mechanical Maintenance, and staff recommend approval of the purchase of these sole source parts and equipment from Rexel USA for the quoted amount.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Principal Sanitary Engineer and Executive Secretary to purchase selected parts and equipment from Rexel USA at a cost not to exceed $50,016.11 and to charge account no. 00680105-466107 for this purchase.

MOTION TO APPROVE

MADE BY MS. YOUNG -WATKINS

2ND BY DR. CAULFIELD

AYES 3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 12

CHANGE ORDER NO. 1– SCAJAQUADA CREEK AND BLACK ROCK CANAL SMART SEWER PROJECT CONTRACT NO 82000074

CONTRACTOR:	ORIGINAL CONTRACT COST	$5,987,000.00
Mark Cerrone Inc.	PREVIOUS CHANGE ORDER	N/A
2368 Maryland Ave.	THIS CHANGE ORDER	$493,196.62
Niagara Falls, New York 14210	ADJUSTED CONTRACT COST	$6,480,196.62

WORK: Scajaquada Creek and Black Rock Canal Smart Sewer Project

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DESCRIPTION OF CHANGE OR EXTRA WORK:

Item #1	Addition of project SPP 338 overflow weir modifications at Bailey Avenue & Kerns Avenue SPP338 work including installing a new weir wall, riser, and roof slab along with site restorations at Bailey Avenue & Kerns Avenue.
Item #2	Increase of existing allowance pay item G-6 budget due to additional insurance requirements and unforeseen subsurface conditions at several project sites under this contract.

REASON FOR CHANGE OR EXTRA WORK:

Item #1	Work at the intersection of Bailey and Kerns was already included in original contract and the addition of the modification to SPP 338 will reduce overall costs and ensure timely completion of this required work.
Item #2	The original contract included a $100,000.00 contingency allowance to be used to cover unforeseen site conditions related to the six project sites comprised under the contract. This existing contingency has been used for additional insurance premium and multiple unknown subsurface conditions.

COST OF CHANGE ORDER NO. 1:

Item #1	$268,196.62
Item #2	$225,000.00
THE TOTAL COST OF CHANGE ORDER NO 1:	$493,196.62

WHEREAS: On July 26, 2023 the Board of the Buffalo Sewer Authority authorized the General Manager to enter into and execute a contract with Mark Cerrone, Inc., for Scajaquada Creek and Black Rock Canal Smart Sewer Project at a cost not to exceed $5,987,000.00; and

WHEREAS: The New York State Environmental Facilities Corporation (EFC) has awarded this project $3,333,000.00 in Bipartisan Infrastructure Law grant funding and $3,333,000.00 in Bipartisan Infrastructure Law subsidized financing; and

WHEREAS: The adjusted contract including Change Order No. 1 would remain within the original $3,500,000.00-$6,500,000.00 Engineer's Estimate range ; and

WHEREAS: The Project Consulting Engineer, T.Y. Lin (formerly Greeley and Hansen), Principal Sanitary Engineer, and staff have reviewed a request for Change Order No. 1 to Contract No. 82000074 in the amount of $493,196.62 as detailed above and recommend its approval.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves Change Order No. 1 to Contract No. 82000074 as written in the above Agenda Item, increasing the contract cost in the amount of $493,196.62, making the adjusted contract cost $6,480,196.62. Expenses from this contract will be funded from Account No. 02000550-490740.

MOTION TO APPROVE

MADE BY DR. CAULFIELD

2ND BY MS. YOUNG -WATKINS

AYES 3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 13

CHANGE ORDER NO. 2– PURCHASE ORDER 22100542 ON THE MARK UTILITY LOCATION SERVICES

CONTRACTOR:	ORIGINAL CONTRACT APPROVAL	$68,772.00
On The Mark, LLC	CHANGE ORDER 2021-2021	$50,000.00
21 Goodway Dr Ste #171	CONTRACT EXTENSION 2021-2022	$236,000.00
Rochester, New York 14623	CONTRACT EXTENSION 2022-2023	$200,000.00
	CONTRACT EXTENSION 2023-2024	$225,000.00
	CONTRACT EXTENSION 2024-2025	$250,000.00
	THIS CHANGE ORDER	$100,000.00
	ADJUSTED CONTRACT COST	$1,129,772.00

VENDOR # 16072 ACCOUNT # 00600106-432004

WORK: Utility Locating Services

CHANGE ORDER OF THE CONTRACT FOR UTILITY LOCATION SERVICES

WHEREAS: On September 30, 2020, the Board of the Buffalo Sewer Authority awarded a contract to On the Mark, LLC (OTM) for utility location services for the period from November 1, 2020 through June 30, 2021 at the total cost not to exceed $68,772.00 with up to four (4) one-year renewals beginning July 1, 2021; and

WHEREAS: On April 7, 2021, the Board authorized a change order due to larger than expected number of tickets and linear feet of markings for the amount of $50,000.00 to cover the costs through the end of the period on June 30, 2021; and

WHEREAS: On June 23, 2021, the Board authorized a one (1) year extension at a cost not to exceed $236,000.00 for fiscal year 2021-2022; and

WHEREAS: On June 22, 2022, the Board authorized a one (1) year extension at a cost not to exceed $200,000.00 for fiscal year 2022-2023; and

WHEREAS: On May 24, 2023, the Board authorized a one (1) year extension at a cost not to exceed $225,000.00 for fiscal year 2023-2024; and

WHEREAS: On June 26, 2024, the Board authorized a one (1) year extension at a cost not to exceed $250,000.00 for fiscal year 2024-2025; and

WHEREAS: The Principal Engineer and staff have determined that the use of internal resources for utility location services will likely provide a cost savings and better communication regarding upcoming projects moving forward, but the plurality of markings are done during the months of June-September and therefore any change in services are recommended for after this peak season; and

WHEREAS: OTM has agreed to extend this contract for four (4) months (July 1, 2025 - October 31, 2025) under the same terms and conditions for fiscal year 2024-2025; and

WHEREAS: Based on the Invoice amounts from the fiscal year 2024-2025 period of July 1, 2024 – October 31, 2024 the Principal Sanitary Engineer and staff recommend a change order at a total cost not to exceed $100,000.00 for the change order period (July 1, 2025 – October 31, 2025).

NOW THEREFORE BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby authorizes the Executive Secretary and Principal Sanitary Engineer to extend the contract with OTM for utility location services at a cost not-to-exceed $100,000.00 for the period July 1, 2025 - October 31, 2025. Account no. 00600106-432004 will be utilized for these services.

MOTION TO APPROVE

MADE BY DR. CAULFIELD

2ND BY MS. YOUNG -WATKINS

AYES 3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 14

CHANGE ORDER NO. 1 – CONTRACT NO. 82000072 DESTRO & BROTHERS CONCRETE CO., INC.

CONTRACTOR:	ORIGINAL CONTRACT COST	$4,850,600.00
Destro & Bros Concrete Co., Inc.	PREVIOUS CHANGE ORDERS	0.00
132 Dingens Street	THIS CHANGE ORDER	$2,000,000.00
Buffalo, NY 14206	ADJUSTED CONTRACT COST	$6,850,600.00
VENDOR NO. 254	ACCOUNT NO.	02000574-490740

WORK: Miscellaneous System Wide Sewer Repairs

DESCRIPTION OF CHANGE OR EXTRA WORK:

Item #1 Addition of North Ogden Street Sewer Extension Project

Item #2 Addition of Boyd Street Sewer and Waterline Replacement Project

Item #3 Addition of contingency funding to cover work through October 2025.

REASON FOR CHANGE OR EXTRA WORK:

Item #1 Nine properties have reported multiple backups on North Ogden and there are no record drawings or other documentation of public sewers having been constructed. This project will provide new mains and services for these homes while separating storm flows and replacing existing lead water services.

Item #2 In Winter of 2024-2025, multiple sewer main breaks were found in the Boyd Street sewer which lies immediately below the waterline and it was determined that the sewer main required replacement and the waterline would need to be replaced in order to facilitate this and that trying to bid as a separate contract would be more costly than using the existing miscellaneous system wide sewer repair contract.

Item #3 A new contract for miscellaneous system wide sewer repairs is not anticipated to be finalized until October after the peak summer construction season; providing contingency funding at this time will ensure that necessary repairs can be completed in the interim.

COST OF CHANGE OR EXTRA WORK:

Item #1 $455,150.00

Item #2 $1,137,300.00

Item #3 $407,550.00

THE TOTAL COST OF THE CHANGE OR EXTRA WORK: $ 2,000,000.00

WHEREAS: In Item No. 24, on July 26, 2023, the Board of the Buffalo Sewer Authority authorized the General Manager to enter into an agreement with Destro & Bros. Concrete Co., Inc. in the amount of $4,850,600.00 to perform miscellaneous sewer repair services with expenses to be charged to Account # 02000574-490740; and

WHEREAS: On August 28, 2023 Contract No. 82000072 was executed between the Buffalo Sewer Authority and Destro & Bros. Concrete Co., Inc. pursuant to the aforementioned Item No. 24 of the July 26, 2023, Board Meeting; and

WHEREAS: The Principal Sanitary Engineer and staff have reviewed a request for a Change Order No.1 to Contract No. 82000072 in the amount of $2,000,000.0 as detailed above and recommend its approval.

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves Change Order No. 1 to Contract No. 82000072 as written in the above Agenda Item, increasing the contract cost in the amount of $2,000,000.00 making the adjusted contract cost $6,850,600.00. Expenses from this contract will be funded from Account No.02000574-490740.

MOTION TO APPROVE

MADE BY DR. CAULFIELD

2ND BY MS. YOUNG -WATKINS

AYES 3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 15

CHANGE ORDER NO. 2 – DESIGN, CONSTRUCTION ADMINISTRATION/ INSPECTION AND ENVIRONMENTAL REVIEW SERVICES FOR CONTRACT NO. 820000043 - DELAVAN TRUNK SEWER IMPROVEMENTS PROJECT

CONTRACTOR:	ORIGINAL CONTRACT COST	$277,425.00
Hazen and Sawyer	PREVIOUS CHANGE ORDER	$3,259,080.00
111 Broadway Suite 2101	THIS CHANGE ORDER (INCREASE)	$3,931,046.00
New York, New York 10006	ADJUSTED CONTRACT COST	$7,467,551.00

VENDOR NO. 15818 ACCOUNT NO. 02000542-432004

PROJECT: Delavan Trunk Sewer Improvements Project

DESCRIPTION OF CHANGE OR EXTRA WORK:

Item #1 Project management and coordination; including development and submission of required documentation to New York State for grant and loan applications.

Item #2 Contract 1 (Florida Street Sewer Reconstruction): Construction administration, resident engineering, field investigations and community betterment services including lead line replacements.

Item #3 Environmental Review per New York State Environmental Quality Review (SEQR) Act and Enhanced Participation Plan (EPPP) per Commissioner Policy-29 for Contract 2 and 3; including Environmental Impact Statement Development and public review, and implementation of project-specific EPPP.

Item #4 Contract 2 Spillman Sewer Design, including 60% design and 90% design milestones.

Item #5 Contract 3 Offline Storage Tank Design, including 30% design and 60% design milestones.

REASON FOR CHANGE OR EXTRA WORK:

Item #1 The scope of work and timeline for work has been extended and expanded due to site constraints and concerns and the availability of Buffalo Sewer staff for grant and loan submissions has become more constrained precipitating greater reliance on consulting staff.

Item #2 As design continues for Contracts 2 & 3, it has been determined to be helpful to maintain continuity between the construction administration for the ongoing Contract 1 to facilitate the sharing of new site data, as this work was not included in previous proposals, it is being proposed to be added at this time.

Item #3 The original project scope did not include an Enhanced Participation Plan (EPPP) per Commissioner Policy-29 and development of a full Environmental Impact Statement (EIS), but after consultation with NYSDEC and BSA leadership it was determined that these services were necessary for successful completion of the project and to ensure that significant construction change orders are not encountered.

Item #4 The original scope included a Tunnel within the Right-of-Way. After significant community input and analysis through the EIS and EPPP process, it was determined that an alternate approach of installing an offline storage (OLS) tank and completing the work in 3 primary contracts was the preferred approach from a construction cost and community impact perspective. Contract 2 includes development of a microtunnel to connect the OLS to the Scajaquada Tunnel and connection to an existing dropshaft tunnel. The current proposal covers this design work through 90% design and the end of 2025.

Item #5 The Contract 3 Offline Storage Tank Design replaces the original tunnel design and brings design through 60% design milestones and the end of 2025.

COST OF CHANGE OR EXTRA WORK:

Item #1 $103,800.00

Item #2 $558,596.00

Item #3 $563,181.00

Item #4 $1,029,698.00

Item #5 $1,675,771.00

THE TOTAL COST OF THE CHANGE OR EXTRA WORK $3,931.046.00

The total INCREASE to the contract as a result of this Change Order is $3,931,046.00

WHEREAS: In Item No. 13, on November 22, 2021, the Board of the Buffalo Sewer Authority prequalified five (5) engineering firms for submission of proposals for the engineering services for future real time control projects; and

WHEREAS: In Item No. 18, on May 4, 2022, the Board of the Buffalo Sewer Authority authorized the General Manager to enter into an agreement with Hazen and Sawyer; one of those five engineering firms which were pre-qualified on November 22, 2021, in the amount of $277,425.00 to perform preliminary design services for the Jefferson Avenue Real Time Control (RTC) Smart Sewer Project (now named the Delavan Trunk Sewer Improvements Project); and

WHEREAS: In Item 17, on July 26, 2023, the Board of the Buffalo Sewer Authority authorized Hazen to perform Scajaquada Tunnel Investigation and Inspections, as well as Design and Bid Phase Services for Contract 1 of the Delavan Trunk Sewer Improvements Project in the amount of $3,259,080.00; and

WHEREAS: The Principal Sanitary Engineer and staff have reviewed a request for a Change Order No. 2 to Contract No. 82000043 in the amount of $3,931,046.00 as detailed above and recommend its approval.

NOW THEREFORE

BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby approves Change Order No. 1 to Contract No. 82000043 as written in the above Agenda Item, increasing the contract cost in the amount of $3,931,046.00, making the adjusted contract cost $7,467,551.00. The cost of this contract will be funded from Account no. 02000542-432004.

MOTION TO APPROVE

MADE BY DR. CAULFIELD

2ND BY MS. YOUNG -WATKINS

AYES 3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 16

ADOPTION OF A STATE ENVIRONMENTAL QUALITY REVIEW ACT POSITIVE DECLARATION FOR THE DELAVAN TRUNK SEWER IMPROVEMENTS PROJECT (SPP 333 CSO-053 11) AND NOTICE OF PUBLIC HEARINGS AND PUBLIC COMMENT PERIOD ON THE PROJECT'S DRAFT ENVIRONMENTAL IMPACT STATEMENT

WHEREAS: The Buffalo Sewer Authority (the "Authority") was created by New York Public Authorities Law (the "Public Authorities Law") Section 1177 (the "Authority Act") and is authorized and empowered by the Public Authorities Law Article 5, Title 8 to provide for the jurisdiction, control, possession, supervision and use of the "facilities", as defined in Section 1176(10) of the Authority Act, including but not limited to the sewage treatment plant, storm water and sewage collection system constituting the sewer system that serves the City of Buffalo (the "City") and neighboring communities (the "Sewer System"); and

WHEREAS: Pursuant to Section 1179 of the Authority Act, the City assigned, transferred and dedicated to the Authority the jurisdiction, control, supervision, possession and use of the Sewer System; and

WHEREAS: The Authority proposes to upgrade the Sewer System along East Delavan Avenue and Spillman Place to control combined sewer overflow (CSO) discharges to the Scajaquada Creek ("the Project"); and

WHEREAS: The Project will reduce the number of CSO activation events to the Scajaquada Creek; and

WHEREAS: In accordance with Part 617 of the implementing regulations pertaining to Article 9 (State Environmental Quality Review Act – "SEQRA") of the Environmental Conservation Law, the Board has determined that the above project is classified as an Unlisted Action; and

WHEREAS: The Authority is acting as Lead Agency in accordance with SEQRA and has undertaken a coordinated review with various public agencies; and

WHEREAS: Parts 1, 2, and 3 of the SEQRA Long Environmental Assessment Form (EAF) evaluating the Project have been completed (Attachments F-I) and the Authority has considered the criteria contained in 6 NYCRR Part 617.7 to determine whether the proposed action may have a significant adverse impact on the environment; and

WHEREAS: Based on its review, the Lead Agency finds that the proposed action may result in significant adverse environmental impacts to the environment and, therefore, has issued a Positive Declaration for the project; and

WHEREAS: The issuance of a Positive Declaration requires completion of a Draft Environmental Impact Statement (DEIS) and associated opportunity for public comment; and

WHEREAS: A Draft Scope of Work for the DEIS was completed, public hearings were held on (October 15th and 17th, 2024) and public comments were received for a period of 30 days.

NOW THEREFORE
BE IT RESOLVED:

The Board of the Buffalo Sewer Authority hereby issues a Positive Declaration pursuant to SEQRA for the proposed Delavan Trunk Sewer Improvements Project (SPP 333 CSO-053_11), a Notice of Completion of the DEIS for the Project, and an intent to hold public hearings during a public comment period to receive feedback on the DEIS through August 22, 2025.

MOTION TO	APPROVE
MADE BY	MS. YOUNG -WATKINS
2ND BY	DR. CAULFIELD
AYES	3 NOES 0

Board Meeting of June 25, 2025

ITEM NO. 17

ADJOURNMENT OF MEETING

MOTION TO ADJOURN

MADE BY MS. YOUNG -WATKINS

2ND BY DR. CAULFIELD

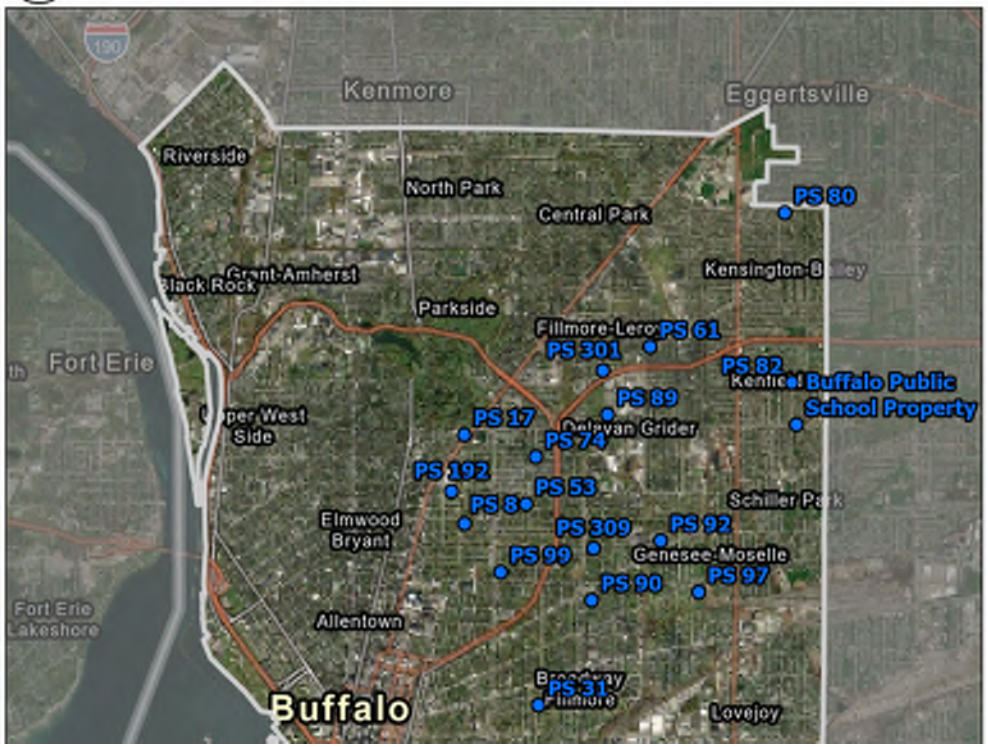
AYES 3 NOES 0

Board Meeting of June 25, 2025

BUFFALO
SEWER AUTHORITY

ATTACHMENT E

Buffalo Public Schools Summary Map



Site	Location	Impervious Area Managed (SF)
PS 8	167 E Utica St	51,500
PS 17	1045 West Delavan Ave	40,200
PS 31	212 Stanton St	9,200
PS 33	157 Elk St	34,750
PS 53	329 Roehrer Ave	18,300
PS 61	453 Leroy Ave	50,550
Buffalo Public School Property	1409 E Delavan Ave	66,300
PS 74	126 Donaldson Rd	45,650
PS 80	600 Highgate Ave	10,100
PS 82	230 Easton Ave	88,550
PS 89	106 Appenheimer Ave	98,600
PS 90	50 A St	104,100
PS 92	340 Fougeron St	16,300
PS 97	1405 Sycamore St	49,600
PS 99	1097 Jefferson Ave	90,300
PS 192	450 Masten Ave	124,200
PS 301	400 Kensington Ave	57,350
PS 309	820 Northampton St	120,450

Total Impervious Area Managed: 1,076,000 (24.7 acres)

Attachment F to the Semi-Annual Status Report: September 2025

Certificate of Acceptance

ITEM NO. 7

CERTIFICATE OF ACCEPTANCE AND OCCUPANCY

PROJECT: Smith Street at Eagle Street Real Time Control Project
BID: $2,262,000.00
NET CHANGE: $1,065,119.84
FINAL CONTRACT AMOUNT: $3,327,119.84

CONTRACTOR:

Nova Site Company, LLC
6 Lena Court
West Seneca, NY 14224

WHEREAS: The Assistant Principal Engineer and staff have certified that the Contractor completed the work in accordance with the plans and specifications on January 8, 2025 and

WHEREAS In Item 6 the contract value was decreased by $84,153.78

NOW THEREFORE
BE IT RESOLVED: That the Board of the Buffalo Sewer Authority hereby finds and determines that:

a. The work to be performed under the terms of the Contract has been complete and is accepted;

b. The date of entrance and occupancy be fixed as of January 8, 2025;

c. The maintenance period commence on January 8, 2025;

d. The Board approved Change Order No. 7 on January 8, 2025 resulting in a net increase of $1,065,119.84, thereby making the adjusted contract cost $3,327,119.84.

MOTION TO APPROVE

MADE BY MRS. PERTUCCI

2ND BY MR. ROOSEVELT

AYES 3 NOES 0

Board Meeting of January 8, 2025