The logo for the Buffalo Sewer Authority is centered on a dark teal rectangular background. The word "BUFFALO" is written in a light blue, sans-serif font, with each letter spaced out. Below it, the words "SEWER AUTHORITY" are written in a white, sans-serif font, also with spaced-out letters.

**B U F F A L O**  
**S E W E R A U T H O R I T Y**

**SPDES Permit No. NY0028410**

**Long Term Control Plan Semi-Annual Status Report**  
**Reporting Period: *July through December 2018***

**Amended Administrative Order**

**CWA-02-2014-3033**

**(Amends CWA-02-2012-3024)**

**March 2019**

# **Long Term Control Plan Semi-Annual Status Report**

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### **ATTACHMENT:**

- A. Work Completed in Current Period/ Projection of Work to be Performed in Next Reporting Period
- B. Detailed Project Descriptions
- C. Public Meeting Materials
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# **1. INTRODUCTION**

The Buffalo Sewer Authority (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<sup>st</sup> for current year January 1– June 30 reporting period, and March 1<sup>st</sup> 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 (see Attachment C).
- 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 overflows occurred during this period, so this item does not apply during this reporting period.

This report covers July through December 2018 which serves as Semi-Annual Report No. 10.

## **2. REQUIREMENTS DUE IN REPORTING PERIOD**

Attachment A provides the current status of all projects listed in the Administrative Order. Issues with implementing these projects are detailed in Section 4 of this document.

This document serves as the March 1, 2019 semi-annual report.

Certificates of Acceptance and Occupancy for fully completed projects for this reporting period are included in Attachment D.

### **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 orange.

A more detailed description of each project including the location and the goal to be achieved through each project is provided in Attachment B.

### **4. IMPLEMENTATION ISSUES**

#### **4.1 Hamburg Drain Optimizations**

Preliminary design for the Hamburg Drain Optimizations was begun prior to January 1, 2014; however, detailed design was delayed due to high water levels in Lake Erie. As a result of this delay the March 18, 2016 Notice to Proceed deadline was exceeded. Upon further review of the proposed locations for sewer separation and/or green infrastructure, it was determined that sufficient sewer separation had already been conducted and/or extensive private investment requiring storm water detention/retention is expected in the drainage basins where this work was proposed. Construction has been completed on the Louisiana and Miami Streets and the Willert Park Green Infrastructure project. Design of the Mill Race In-Line Storage project is expected to begin during the next reporting period.

#### **4.2 WWTP Improvement Project Alternative C2**

Design of this project has been delayed due to the need to remove extensive quantities of grit which have accumulated in the system reducing WWTP capacity. Before further upgrades are considered, the existing issues must first be rectified to allow for accurate measurements of existing capacity to be conducted. The cleaning of the A-side influent channels, aeration basin 3 and both the A-side and B-side effluent channels was completed in two separate contracts for the facility. Phase 1 removal of the grit in the secondary system included the removal and disposal of over 1,210 wet tons of grit. Phase 2 of the grit removal project continued with grit removal for the remaining influent and effluent channels and consisted of the removal of an additional 240 wet tons of grit.

The Authority is now working on Phase 3 for the removal of grit from the aeration tanks in the secondary system. As part of this work, the aeration tanks need to be able to be fully taken out of service. While this has proved to be a difficult task, the Authority has developed a detailed plan and schedule to help expedite Phase 3. The Authority is currently purchasing equipment needed while also moving forward with the contract for equipment installation and removal of the remaining grit in the secondary system. The Authority met

with the NYSDEC on July 17, 2018 to present the plan and schedule for this preliminary work.

The Authority is now working with a consulting engineer for implementation of isolation of aeration tanks and removal of remaining grit in the secondary system. This project is currently being advertised and is anticipated to have a Notice to Proceed at the end of April 2019. Substantial completion of this project is scheduled for July 31, 2020.

Following completion of this project, the Authority intends to secure the services of an engineer to review and evaluate in further detail the hydraulics of the WWTP. The Authority will then evaluate and rank requests for proposals from engineering firms for the WWTP Project Alternative C2 and anticipates awarding that contract(s) by September 2021. The initial notice to proceed for construction is expected to be issued in 2024 with completion in 2029.

#### 4.3 North Relief-Interceptor

Preliminary subsurface investigation in conjunction with the North Relief-Interceptor concept has revealed concerns with the location of bedrock and the feasibility of the proposed tunnel location. Due to the noted concerns, the Authority has phased the proposed project. The initial phase, the Bird Avenue Underflow Sewer Project has been completed. Engineering for the second phase is expected to begin during the next reporting period.

## **5. CHANGES IN KEY PERSONNEL**

There have been no changes in personnel during the reporting period.

## **6. PUBLIC MEETINGS**

Public information brochures and informal public meetings regarding the Hertel at Deer Real Time Control project have taken place during the reporting period. The brochure is included in Attachment C.

## **7. MODEL MODIFICATIONS**

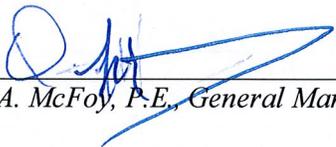
The process of converting the hydraulic model from XP-SWMM to PC-SWMM has been completed. The final report is expected to be submitted early in the next reporting period.

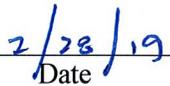
## 8. GREEN INFRASTRUCTURE

The Rain Check 2.0 report, which focuses on the next generation of green infrastructure in Buffalo, is expected to be completed during the next reporting period.

## 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."

  
\_\_\_\_\_  
*Ohwole A. McFoy, P.E., General Manager*

  
\_\_\_\_\_  
Date