

The logo for the Buffalo Sewer Authority is centered on a dark blue rectangular background. The word "BUFFALO" is written in large, light blue, sans-serif capital letters. Below it, the words "SEWER AUTHORITY" are written in smaller, white, sans-serif capital letters.

BUFFALO
SEWER AUTHORITY

SPDES Permit No. NY0028410

Long Term Control Plan Semi-Annual Status Report
Reporting Period: *July through December 2016*
Amended Administrative Order
CWA-02-2014-3033
(Amends CWA-02-2012-3024)

March 2017

Long Term Control Plan Semi-Annual Status Report
Reporting Period: *July through December 2017*

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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 1st for current year January 1– June 30 reporting period, and March 1st 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 D).
- 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 2016 which serves as Semi-Annual Report No. 6.

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, 2017 semi-annual report.

Certificates of Acceptance and Occupancy for fully completed projects are included in Attachment B.

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 reporting period (July 1 through December 31, 2016) and the work projected to be performed during the next reporting period (January 1 through June 30, 2017) is provided in Attachment A. Work to be completed after the current or next reporting period has been grayed out.

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

4. IMPLEMENTATION ISSUES

4.1 Smith Street Storage

The Smith Street Storage project has undergone several conceptual level redesigns that have reduced capital and maintenance costs and negative impacts to the environment and residents; however these redesigns have also resulted in a prolonged engineering period. In order to expedite construction, the Smith Street storage project has been separated into a partial sewer separation project and an in-line storage project. .

The partial sewer separation project was completed on June 22, 2016.

NYSDEC approval of plans for Bidding for the Smith Street in-line storage project was granted on February 25, 2016. The contract was awarded at the May 11, 2016 meeting of the Board of the Buffalo Sewer Authority and the Notice to Proceed was

issued on July 13, 2016. Due to the extended approval process of the Smith Street in-line storage project, completion of construction of the overall Smith Street storage project is expected to be completed by October 2017.

4.2 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. As a result, engineering design has proceeded along Louisiana and Miami Streets. In addition, work has progressed on the Willert Park Green Infrastructure project which is expected to also significantly reduce overflows through the Hamburg Drain. These projects are expected to be bid in April 2016.

4.3 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 Authority has requested proposals from engineering firms for the WWTP Project Alternative C2, but has not awarded a contract due to the noted grit issues. The first notice to proceed for construction of Alternative C2 is expected to be issued after the March 18, 2017 date, as cleaning of the system remains ongoing.

The cleaning of the A-side influent channels, aeration basin 3 and both the A-side and B-side effluent channels was progressed during this reporting period.

4.4 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. Phase 1 preliminary engineering and design has commenced on the northern section as the Bird Avenue Underflow sewer project. Engineering for the the second phase is expected to begin March 2019.

5. CHANGES IN KEY PERSONNEL

No changes in key personnel occurred during this reporting period.

6. PUBLIC MEETINGS

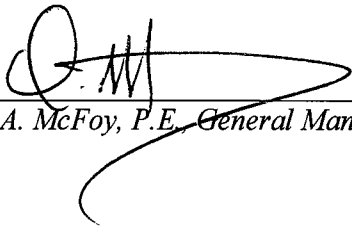
Public meetings regarding the Niagara Street Now project which incorporates part of the Niagara Street green infrastructure project and the Willert Park Green Infrastructure project have taken place during the reporting period (see Attachment D).

7. MODEL MODIFICATIONS

The process of converting the hydraulic model from XP-SWMM to PC-SWMM has commenced. The model is currently being refined in preparation for the calibration process which will follow the flow and precipitation monitoring period.

8. 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."



Oluwole A. McFoy, P.E., General Manager

27 Feb 17
Date