

Section 16: Ground Water Rule

We were informed by the Ohio EPA that a significant deficiency was identified on March 12, 2019.

Distribution: In accordance with OAC Rule 375-83-01 (H) (1) The owner operator shall ensure that all facilities and equipment necessary for the treatment and distribution of water shall be maintained, at a minimum as to function as intended. (2) In the event that the treatment facilities or equipment no longer function as intended, corrective action (which may include additional maintenance or modifications of the public water system) shall be taken by the owner.

(a) During the LSSV, Ohio EPA reviewed the inspection report completed by Liquid Engineering Corporation for the Cromer Reservoir on June 8, 2018. The inspection report highlighted the following deficiencies with the Cromer Reservoir that may provide a pathway of entry for microbial or other contamination into the distribution system or could affect the reliable delivery of safe drinking water for the City of Canton:

- The overall general appearance of the interior reservoir roof, walls, inlet and outlet was marked as “poor”
- The roof and walls showed signs of settling cracks, spalling, bugholes (A small hole in the surface of a concrete structure caused by the expansion and eventual outgassing of trapped pockets of air in setting concrete.), and substantial efflorescence.
- There were sections of exposed steel reinforcement on the roof of the tank.
- The reservoir walls showed signs of staining, which may be indicative of surface water infiltration into the tank.
- The inlet and outlet showed heavy and moderate uniform surface corrosion, respectively, and concentration cell corrosion throughout.
- The inspection report stated that there were large amounts of derbies, including biological and inorganic materials, present in the tank.
 - The reservoir floor was unable to be inspected properly due to roughly one foot or more of iron and manganese sediment in some areas sediment exceeding seven feet.

(b) In addition to the deficiencies identified in the inspection report, it was noted in the 2019 LSSV that the concrete collars surrounding the tank vents were damaged and needed repair. The vents are also older-style vents which have larger screens that do not meet Ten States Standards for vent screen size.

Corrective Action: The City will shortly contract with Burgess & Niple, Inc. to develop a General Plan for renovations to the Sugarcreek Water Treatment Plant, including but not limited to an evaluation of Cromer reservoir and, specifically, the items mentioned in the significant deficiency letter. The plan will include a proposed scope of work, estimated cost, and a recommendation sequencing all suggested Sugarcreek Water Treatment Plant related work. The Plan will be used to design a set of construction plans, specifications and an engineering cost estimate for the overall project. When completed, and funding availability is confirmed, the project will be advertised for build and a contractor(s) selected.

The approximate timeline, which may be adjusted as more information becomes available, is as follows:

- COMPLETE- March 31, 2020: Finalize Sugarcreek Water Treatment Plant General Plan.
- IN PROGRESS- May 20, 2020 through June 29, 2020: Selection of an engineering firm to design renovation project.
- December 31, 2021: Finalize detail plans and specifications for the Cromer Reservoir renovation work.
- March 15, 2022: Begin construction.
- March 15, 2023: Substantial completion of Cromer reservoir work.