



Legislation Text

File #: 15-5138, **Version:** 1

TO: Mayor and Commission

AGENDA DATE: 4/5/2021

FROM: John A. Peters, III, PE, Acting City Manager **AGENDA ITEM:** 8 - B

SUBJECT:

Notification of FDEP Consent Order OGC# 20-1509 for the Deltona Lakes Water Reclamation Facility along with proposed response activities - Steven Danskine, P.E., Public Works, 386-878-8998.

Strategic Goal: 5 - Public Safety

LOCATION:

Citywide

BACKGROUND:

While performing the Permit Renewal for the Deltona Lakes Water Reclamation Facility (WRF), Facility ID No. #FLA111724, two separate events prompted action from the Florida Department of Environmental Protection (FDEP). Firstly, Discharge Monitoring Reports (DMR's) for the plant reported two quarterly exceedances for Total Nitrogen as Nitrate (Nitrate), one in 2019 and the second in 2020, nearly one year apart in an onsite monitoring well. Secondly, on September 21, 2020, during multiple consecutive torrential downpours, approximately 4,000 gallons of raw sewage overflowed a manhole adjacent to Lake Gleason. Each incident was reported to FDEP along with subsequent discussions of the causes and proposed remedies, and subsequently the aforementioned Consent Order (attached) was issued on March 1, 2021.

Conditions:

- An Infiltration & Inflow (I&I) Plan will be implemented by piggybacking on a Toho Water District contract with USSI, Inc. for smoke testing, manhole inspections/repair along with other minor repairs to the sanitary sewer collection system in order to reduce the likelihood of overwhelming the collection system's ability to function properly.
- Obtain design, permitting, and construction for plant modifications to eliminate discharge to the onsite storage pond.

Fines:

- Fines and Penalties total \$9,263.20. \$250.00 of which is administrative.
- In lieu of paying the \$9,013.20 civil penalty, we may instead implement a Pollution Prevention (P2) Project in an equal or greater value.
- Staff intends to install to Variable Frequency Drives (VFD's) on an existing lift station, the cost

of which exceeds the civil penalty, and the resultant energy savings is anticipated to repay the initial cost in approximately 7 years.

Remedies:

- Modifications to Deltona Lakes WRF are anticipated to eliminate groundwater discharge and improve the treatment process through the end of its operational life.
- As groundwater and stormwater inflow into the collection system cause great increases in flows to the WRF's, the I&I Study and repairs associated with it is anticipated to have a significant reduction in wet weather flows.
- Additionally, the gravity collection system suffers from great age and pipe cracking, root intrusion, and other failures. In previous years, \$500,000 has been allocated to collection system pipe repair/replacement, it has been inadequate in addressing the extent of needed improvements. Going forward, Deltona Water intends to allocate \$1,000,000 per year for pipe lining/repair and replacement which is anticipated to address approximately 1-mile per year of the existing 45 miles of gravity sewer pipe within the 3 major collection areas.

Future meetings will address Purchase Orders and Task Authorizations for Consultants and Contractors to address these proposed remedies.

COST:

\$9,263.20

SOURCE OF FUNDS:

Water/Sewer Utility Fund

ORIGINATING DEPARTMENT:

Deltona Water

STAFF RECOMMENDATION PRESENTED BY:

Steven Danskine, PE, Acting Public Works Director-The commission to enter into Consent Order OGC# 20-1509 with the Florida Department of Environmental Protection (FDEP) and proceed with the remediation and compliance activities outlined above.

POTENTIAL MOTION:

"I move to enter into Consent Order OGC# 20-1509 with the Florida Department of Environmental Protection (FDEP) and proceed with the remediation and compliance activities outlined above. The Acting City Manager has the authority to make corrections of scrivener's errors and the like."