



# FLORIDA DEPARTMENT OF Environmental Protection

CENTRAL DISTRICT OFFICE  
3319 MAGUIRE BLVD, SUITE 232  
ORLANDO FLORIDA 32803

**Ron DeSantis**  
Governor

**Jeanette Nuñez**  
Lt. Governor

**Noah Valenstein**  
Secretary

September 15, 2020

Mr. Kirk Willis  
Southern Region Engineer  
Waste Connections of Osceola County, LLC  
1501 Omni Way  
St. Cloud, Florida 34773  
[Kirk.Willis@wasteconnections.com](mailto:Kirk.Willis@wasteconnections.com)

Osceola County – Solid Waste  
J.E.D. Solid Waste Management Facility  
St. Cloud, Florida  
WACS ID: 89544

## **Review of 32nd Semi-Annual Water Quality Monitoring Report**

Dear Mr. Willis:

The Department has reviewed the “**32nd Semi-Annual Water Quality Monitoring Report**”, which was dated September 4, 2020 and submitted on September 8, 2020 for the **J.E.D. Landfill – (Solid Waste Management Facility) - WACS Facility ID: 89544 – Osceola County**. The Report was submitted by Geosyntec Consultants. The report is 432 pages long, and the EDD files were included in the submittal. We find the report acceptable. The last permit modification for this facility is dated April 10, 2019, and the facility is compliant with the Monitoring Plan Implementation Schedule (MPIS) attached to that permit modification.

A total of **50** groundwater monitoring wells were utilized to monitor the groundwater at the **J.E.D. Landfill** facility during the May 2020 event. No exceedances of state surface water standards or criteria were reported. Review of the data provided indicates that 6 parameters were detected at concentrations exceeding their respective Florida regulatory limits or criteria for groundwater. This includes Arsenic, Sodium, Chloride, Iron, Benzene, and Total Dissolved Solids. This data is summarized in Section 4.2 and Table 3 of the Report. The analytes of concern and/or exceedances of the respective Primary Drinking Water Standards (PDWS) (62-550 Florida Administrative Code (F.A.C.)), Secondary Drinking Water Standards (SDWS) (62-550 FAC), or Florida Groundwater Cleanup Target Levels (GCTLs) (62-777 F.A.C.) detected during this period include:

**Arsenic** - This analyte was detected in compliance wells CW-1A (120 micrograms per liter (µg/L)) and MW-29A (17 µg/L) during this period above the GCTL of 10 micrograms per liter (µg/L). Arsenic has historically exceeded the GCTL in CW-1A. MW-29A was resampled on June 24, 2020 and the result was 8.0 µg/L which is below the GCTL for this analyte. Both wells are located within the perimeter of the facility and this is historically **stable** for this well location. We will continue to monitor these concentrations.

**Sodium** – This analyte was detected in MW-1A, MW-2B, MW-4B, MW-5A, MW-12A, MW-13A, MW-22AR, MW-23A, MW-23B, MW-28A, CW-2A and CW-3A during this period above the PDWS/GCTL of 160,000 µg/L. These detections show a historically **stable** trend and all of these wells are located within the perimeter of the facility. We will continue to monitor these concentrations.

**Chloride** – This analyte was detected in MW-1A, MW-1B, MW-2B, MW-4B, MW-12A, MW-13A, MW-22AR, MW-23A, MW-23B, MW-28A, CW-2A, and CW-3A during this period above the SDWS/GCTL of 250,000 µg/L. All of these wells are located within the perimeter of the facility. These results show a historically **stable** trend for this analyte. We will continue to monitor these concentrations.

**Iron** – This analyte was detected above the SDWS/GCTL of 300 µg/L in all monitoring wells sampled during this event except for MW-5A, MW-4B, and MW-5B. The highest A-Zone and B-zone iron concentrations were from MW-31A and MW-31B. This matches the previous two sampling events and indicates a **stable** trend for this analyte. Historical analytical data indicates Iron has exceeded the SDWS in most wells during all of the groundwater monitoring events, including the baseline events. All of these wells are within the perimeter of the facility. We will continue to monitor these concentrations.

**Benzene**– This analyte was detected above the PDWS/GCTL of 1.0 µg/L in 8 of the A – Zone wells, and one B-zone well, with the highest concentration from MW-10B at 11 µg/L. The source of the benzene has been attributed to landfill gas (HDR Engineering, Inc. 2012, Geosyntec, 2013 and 2017). All of the wells that had detections of benzene are within the perimeter of the landfill and these concentrations show a historically **stable** trend. No additional action is warranted at this time. We will continue to monitor these concentrations.

No surface water samples were collected during the May 2020 event as no flow was observed in Bull Creek at either the upstream (SW-4) or downstream (SW-3) locations. No changes to the MPIS are recommended at this time and we concur with this conclusion.

Please perform the next semiannual groundwater sampling event in **November 2020**. Please notify the Department at [DEP\\_CD@dep.state.fl.us](mailto:DEP_CD@dep.state.fl.us) at least **fourteen (14) days** prior to the installation and/or sampling of any monitoring well. [62-701.510(9)(a), Florida Administrative Code (F.A.C.)]. Please also copy me at [Dale.Melton@dep.state.fl.us](mailto:Dale.Melton@dep.state.fl.us) for field activity notifications and correspondence.

The monitoring report (including ADaPT EDDs) should be emailed to Tallahassee using the following email address: [ADaPT.EDDs.and.Reports@dep.state.fl.us](mailto:ADaPT.EDDs.and.Reports@dep.state.fl.us). **Please copy me on the email.** Additionally, if attachments are too large to email, monitoring reports may also be transmitted to the FDEP Solid Waste program in Tallahassee using the following FTP site: [ftp://ftp.dep.state.fl.us/pub/WACS-ADaPT/EDDS\\_and\\_Reports](ftp://ftp.dep.state.fl.us/pub/WACS-ADaPT/EDDS_and_Reports). Please email us at [ADaPT.EDDs.and.Reports@dep.state.fl.us](mailto:ADaPT.EDDs.and.Reports@dep.state.fl.us) informing us of what files were transmitted via FTP for which facility sampling event.

Please submit the next **MPIS Technical Report by March 31, 2022**. This Technical Report should cover the five (5) semiannual sampling events for the November 2019 through November 2021 monitoring period. If you have any questions concerning this correspondence, please contact me by telephone at (407) 897-4326, or by email at [Dale.Melton@dep.state.fl.us](mailto:Dale.Melton@dep.state.fl.us). Please include the **WACS Facility ID: 89544** on all reports and correspondence.

Sincerely,



Dale Melton  
Environmental Consultant  
Permitting and Waste Cleanup Program

cc:

Craig Joseph, P.G., Geosyntec [CJoseph@Geosyntec.com](mailto:CJoseph@Geosyntec.com)

Mathew Wissler, P.G., Geosyntec [MWissler@Geosyntec.com](mailto:MWissler@Geosyntec.com)

Benjamin Gray, Waste Connections [Benjamin.Gray@WasteConnections.com](mailto:Benjamin.Gray@WasteConnections.com)

DEP: Dale Melton, Lu Burson, Erin Rasnake, El Kromhout, Ashley Gardner