

Indian River County, Florida
Solid Waste Disposal District
Board Memorandum

Date: November 11, 2022

To: Jason E. Brown, County Administrator

From: Sean C. Lieske, Director of Utility Services

Prepared By: Himanshu H. Mehta, PE, Managing Director, Solid Waste Disposal District

Subject: Work Order No. 18 to Geosyntec for Segment 3, Cell 3 Site Preparations

Descriptions and Conditions:

The Indian River County (IRC) Solid Waste Disposal District (SWDD) Class 1 landfill includes the closed Segment 1 - Infill/Segment 2 vertical expansion, and Segment 3 lateral expansion (Segment 3). The total footprint area of Segment 3 is 76 acres and consists of eight cells that are being constructed in phases, as needed. Segment 3 - Cell 1, directly east of and on top of the east slope of Segment 2, was constructed in 2013. Segment 3 - Cell 2 was constructed in 2020.

Over the past two years, we have seen an average 21% increase in construction and demolition (C&D) debris going into the landfill compared to an average 1% increase in municipal solid waste (MSW). Based on the University of Florida Bureau of Economic and Business Research (BEBR) reports, our average population growth for the past two years has only been 2%. The significant increase in overall tonnages into the landfill has resulted in our operator, Republic Services of Florida, LP (Republic), to estimate that the filling of Cell 2 will be nearly completed by the end of Calendar Year (CY) 2023 and has therefore recommended that SWDD consider construction of Cell 3 during CY 2023.

SWDD staff is preparing a request for qualification (RFQ) for an engineering and construction services package for future cell design, permitting, and construction services, which is projected to be complete before the end of CY 2022. In the meantime, staff is recommending that we proceed with the Segment 3 - Cell 3 site preparations, which include the earthwork for the subgrade of Cell 3, appropriate routing of the perimeter stormwater ditch, and any impacts to groundwater monitoring wells and landfill gas probes, as necessary.

Accordingly, staff requested the attached proposal from Geosyntec to provide engineering design, contractor procurement, and construction support services related to the site preparation activities.

Analysis:

Geosyntec has prepared Work Order No. 18, provided in Attachment 1, for engineering services detailing the scope of work, budget, and schedule for each of the phases. The fees to be paid by SWDD for the execution of this work authorization are in accordance with the Continuing Contract Agreement for Professional Services (CCNA), dated April 17, 2018, renewed and amended as of May 18, 2021 engineer's

continuing consulting services master agreement. The phases are listed below along with their estimated fees.

Phase Description	Budget
Phase 1: General Consulting/Meeting Support/Project Management	\$19,502.26
Phase 2: Preparation of Construction Documents	\$31,499.02
Phase 3: Contractor Procurement Support Services	\$22,458.75
Phase 4: Construction-Phase Support Services	\$83,707.44
Phase 5: Abandonment and Installation of Existing Monitoring Wells and LFG Probe	\$14,137.24
Total	\$171,304.71

Since time is of the essence, the proposed schedule anticipates contractor award by the end of January 2023, and to have the site preparation work ready for a future liner construction project by April 2023.

Funding:

Funding of \$171,304.71 for this project is budgeted and available in the SWDD/WIP/Cell 3 Landfill Expansion account, number 411-169000-22034. This is funded from SWDD assessments and user fees.

Description	Account Number	Amount
SWDD/ WIP/Cell 3 Landfill Expansion	411-169000-22034	\$171,304.71

Recommendation:

Solid Waste Disposal District staff recommends that its Board approves and authorizes the Chairman to sign Work Order No. 18 authorizing Geosyntec to provide engineering services for a not to exceed fee of \$171,304.71.

Attachment:

1. Geosyntec Work Order No. 18