



INDIAN RIVER COUNTY
SOLID WASTE DISPOSAL DISTRICT
BOARD MEMORANDUM



Date: September 22, 2017
To: Jason E. Brown, County Administrator
From: Vincent Burke, Director of Utility Services
Prepared By: Himanshu H. Mehta, P.E., Managing Director, Solid Waste Disposal District
Subject: IRC Landfill Amendment No. 1 to Work Order No. 1 to CDM Smith, Inc.

DESCRIPTIONS AND CONDITIONS:

On July 18, 2017, the Solid Waste Disposal District (SWDD) Board approved the Indian River County (IRC) Landfill contract agreement with CDM Smith, Inc. (CDM Smith), in accordance with FS 287.055, Consultant's Competitive Negotiation Act per the Request for Qualification #2017048 for Engineering Consulting Services for Landfill Closure, Landfill Gas System Expansion, and Cell Construction.

Staff requested a proposal from CDM Smith to provide professional engineering services for the proposed Class I Landfill, Segment 3, Cell 2 expansion; the partial closure of Segment 2; and expansion of the landfill gas collection system (Project). The proposed new cell is Cell 2 of Segment 3 (approximately 10.6 acres in size), which will be located immediately to the east of the existing Segment 3, Cell 1. The proposed partial closure of Segment 2 (approximately 25 acres in size) includes closure of the Segment 1, infill vertical expansion area and the final elevations of Segment 2. Expansion of the landfill gas system within Segment 2 is proposed to be constructed concurrently with the partial closure of Segment 2 so that the final components can be installed prior to the closure cap being constructed. Staff has also requested an evaluation of an alternative cover design as well as preliminary planning for a new lift station.

This project will be completed in multiple phases. Phase I includes evaluation of available information and developing sufficient information to update/revise existing permit design drawings, and complete the final design and specifications that will be used for procurement. On July 18, 2017, the SWDD Board approved the IRC Landfill Work Order No. 1 to CDM Smith in the amount of \$131,820 for this initial phase.

Staff has received a proposal from CDM Smith for Phase II of the work, which includes preparation of the final design and bid package, permitting/regulatory agency support, opinion of probable construction cost, and bidding assistance. Per staff's request, CDM Smith has also included work related to the preliminary evaluation of a leachate pretreatment system and a fire suppression system for the landfill.

The final phase will include engineering services during construction to be brought to the SWDD Board for approval at a future date.

This agenda item requests authorization to CDM Smith to initiate Phase 2 of the Project under IRC Landfill Amendment No. 1 to Work Order No. 1.

ANALYSIS:

CDM Smith has prepared IRC Landfill Amendment No. 1 to Work Order No. 1, provided in Attachment 1, for engineering services detailing the scope of work, budget, and schedule for the project. The fees to be paid by SWDD for the execution of this work authorization are in accordance with the engineer's continuing consulting services master agreement. The table below shows the expected completion date and their estimated fees.

TASK	DESCRIPTION	AMOUNT
Phase 2	Task 1 - Meetings, Data Collection, Survey, and Geotechnical Investigation <ul style="list-style-type: none">• Subtask 1.7 – Preliminary Leachate Pre-Treatment Evaluation• Subtask 1.8 – Preliminary Fire Suppression System Evaluation	\$28,440
	Task 2 – Project Quality Management	\$90,426
	Task 3 – Final Design, Drawings, Specifications, and Opinion of Probable Construction Cost Estimate	\$342,581
	Task 4 – Permitting Assistance	\$43,790
	Task 5 – Bidding Assistance	\$28,292
	Task 6 – Additional Engineering Services	\$25,150
		\$558,679

FUNDING:

Funding for the Cell 2 work is partially budgeted in the amount of \$260,000 for FY17-18. This funding is available in the Engineering Services account number (41121734-033130), which is funded from SWDD assessments and user fees. A portion of this work was budgeted in FY16-17 and a roll-over of funds will be enough to cover the total Phase II expenditures. A budget amendment will be needed to fund the future Phase III work. Funding for the Closure work is available in the landfill closure escrow account.

DESCRIPTION	ACCOUNT NO.	AMOUNT
Engineering Services – Cell 2	41121734-033130	\$330,964
Engineering Services – Closure	411-239006	\$227,715

RECOMMENDATION:

SWDD staff recommends that its Board approve the following:

- a) Approve IRC Landfill Amendment No. 1 to Work Order No. 1 with CDM Smith Inc. in the amount of \$558,679 to provide engineering services related to Phase 2 of the Class I Landfill Segment 3 Cell 2 expansion, partial closure of Segment 2, and expansion of the landfill gas collection system.
- b) Authorize the Chairman to execute the same, as presented.

ATTACHMENT:

- 1) IRC Landfill Amendment No. 1 to Work Order No. 1