

**Indian River County, Florida  
Solid Waste Disposal District  
Board Memorandum**

**Date:** July 1, 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:** Amendment No. 2 to Work Order No. 44 to Kimley-Horn for Landfill Gas Flare Skid Improvements and Pipeline Extension Project

**Descriptions and Conditions:**

On October 12, 2021, the Solid Waste Disposal District (SWDD) approved Work Order No. 44 to Kimley-Horn and Associates, Inc. (KHA) utilizing Biogas Engineering (BGE) as a sub-consultant to provide engineering services related to the Landfill Gas Pipeline Extension and Skid Improvements project for a cost of \$226,420. The project includes the replacement of the current “low-pressure” landfill gas (LFG) collection and control system to a “high pressure” system, as well as a new LFG line from the flare system to the new evaporation system. On January 18, 2022, the SWDD Board approved Amendment No. 1 to Work Order No. 44 to Kimley-Horn for \$40,830, with an amended total of \$267,250.

The design work is proceeding well; however, an amendment is needed for additional geotechnical services related to additional concrete slabs needed for reconfiguration of the skid modifications, review of blower skid proposals from various suppliers, structural design of the concrete slabs, additional meetings, and general project management efforts.

Staff received the attached Amendment No. 2 from KHA for these additional services and recommends approval from the SWDD Board.

**Analysis:**

KHA has prepared Amendment No. 2 to Work Order No. 44, per the Continuing Consulting Engineering Services Agreement for Professional Services, for engineering services detailing the scope of work, budget, and schedule for each of the tasks. The tasks are listed below showing the scope and their estimated fees.

Previously Approved Work Order No. 44 Task Summary:

<b>PHASE 1</b>	<b>DESCRIPTION</b>	<b>KIMLEY-HORN</b>	<b>SUBCONSULTANT</b>	<b>OTHER EXPENSES *</b>	<b>TOTAL AMOUNT</b>
Task 1	Landfill Gas Pipeline Extension	\$31,280	\$ 60,500	\$ 0	\$ 91,780
Task 2	Landfill Flare Skid Improvements	\$14,340	\$112,300	\$8,000	\$134,640
<b>TOTAL =</b>		<b>\$45,620</b>	<b>\$172,800</b>	<b>\$8,000</b>	<b>\$226,420</b>
<i>* Other Expenses are for travel to be billed on a time and materials basis.</i>					

Amendment No. 1 Work Order No. 44 Task Summary:

<b>PHASE 1</b>	<b>DESCRIPTION</b>	<b>KIMLEY-HORN</b>	<b>SUBCONSULTANT</b>	<b>OTHER EXPENSES *</b>	<b>TOTAL AMOUNT</b>
Task 1	Landfill Gas Pipeline Extension	\$ 9,450	\$1,750	\$0	\$11,200
Task 2	Landfill Flare Skid Improvements	\$18,620	\$ 0	\$0	\$18,620
Task 3	SCADA	\$11,010	\$ 0	\$0	\$11,010
<b>TOTAL =</b>		<b>\$39,080</b>	<b>\$1,750</b>	<b>\$0</b>	<b>\$40,830</b>
<i>* Other Expenses are for travel to be billed on a time and materials basis.</i>					

Amendment No. 2 Work Order No. 44 Task Summary:

<b>PHASE 1</b>	<b>DESCRIPTION</b>	<b>KIMLEY-HORN</b>	<b>SUBCONSULTANT</b>	<b>OTHER EXPENSES *</b>	<b>TOTAL AMOUNT</b>
Task 1	Landfill Gas Pipeline Extension	\$ 3,160.50	\$1,000	\$0	\$ 4,160.50
Task 2	Landfill Flare Skid Improvements	\$ 9,145.50	\$ 0	\$0	\$ 9,145.50
Task 3	SCADA	\$ 0.00	\$ 0	\$0	\$ 0.00
<b>TOTAL =</b>		<b>\$12,306.00</b>	<b>\$1,000</b>	<b>\$0</b>	<b>\$13,306.00</b>
<i>* Other Expenses are for travel to be billed on a time and materials basis.</i>					

**Funding:**

Funding for the SWDD Leachate Project is budgeted and available in the SWDD/Landfill/Engineering Services, account number 41121734-033130, for \$4,160.50, which is funded from SWDD assessments and user fees. The Landfill Gas Flare Skid Improvements are considered a “closure activity” and, as such, is funded from an escrow account long established per Florida Department of Environmental Protection (FDEP) requirements, which has the funds available in the SWDD/Accrued Closure – I, II & Infill, account number 411-239006, for \$9,145.50.

<b>Account Name</b>	<b>Account Number</b>	<b>Amount</b>
SWDD/Landfill/Engineering Services	41121734-033130	\$ 4,160.50
SWDD/Accrued Closure – I, II & Infill (Escrow)	411-239006	\$ 9,145.50
<b>Total</b>		<b>\$13,306.00</b>

**Recommendation:**

Solid Waste Disposal District staff recommends that its Board approve the following:

- a) Approve Amendment No. 1 to Work Order No. 44 with Kimley-Horn and Associates, Inc. for \$13,306, with an amended total of \$280,556, to provide engineering services related to the Landfill Gas Pipeline Extension and Skid Improvements.
- b) Authorize the Chairman to execute the same, as presented.

**Attachment:**

Amendment No. 2 Work Order No. 44 – KHA