

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

**Date:** September 8, 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:** Change Order No. 2 to Agreement with Biogas Engineering for a High Pressure Skid System

**Descriptions and Conditions:**

On April 5, 2022, the Solid Waste Disposal District (SWDD) approved the agreement with Biogas Engineering (BGE) to fabricate the High-Pressure Skid (HPS) system for a not-to-exceed cost of \$789,000. On May 10, 2022, SWDD approved Change Order No. 1 to BGE for \$292,570 to add a Chiller to the HPS system to provide dry gas.

The objective of the HPS system is to send pressurized landfill gas (LFG) to both the Leachate Evaporation system, which will be constructed approximately ½ mile from the new HPS, and the Renewable Natural Gas (RNG) project by Nopetro Eco District, LLC (NED) that will be located approximately ½ mile away on the neighboring Indian River Eco District (IREC) property.

One of the critical contractual parameters for the RNG project is to meet certain LFG quantity and quality target specifications, which are tied to financial incentives for SWDD. The current HPS system does include flow meters to measure the quantity of LFG; however, to monitor the quality parameters such as methane, sulfur, oxygen, and nitrogen, our consultant is recommending that we install a gas chromatograph (GC) and associated control equipment to the HPS system

Staff requested the attached Change Order No. 2 from BGE to facilitate this additional equipment.

**Analysis:**

BGE has provided Change Order No. 2 to provide a GC and associated control equipment. This change order covers the cost of providing the necessary equipment to achieve this request, including the cost to engineer, size, and integrate this equipment into the HPS system.

Upon approval of Change Order No. 1 for \$112,980, the total authorization to BGE for the fabrication of the HPS system with the GC is now \$1,194,550.

**Funding:**

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. Funding for the landfill gas flare skid improvements in the amount of \$1,194,550 is available in the SWDD/Accrued Closure – I, II & Infill account, number 411-239006, which is funded from SWDD assessments and user fees.

<b>Project Portion</b>	<b>DESCRIPTION</b>	<b>ACCOUNT</b>	<b>AMOUNT</b>
Original	SWDD/Accrued Closure – I, II & Infill	411-239006	\$ 789,000
Change Order No. 1	SWDD/Accrued Closure – I, II & Infill	411-239006	\$ 292,570
Change Order No. 2	SWDD/Accrued Closure – I, II & Infill	411-239006	\$ 112,980
Total			\$1,194,550

**Recommendation:**

Solid Waste Disposal District staff recommends that its Board approve Change Order No. 2 with Biogas Engineering to include a gas chromatograph and associated control equipment in the fabrication of the high-pressure skid system for a not-to-exceed cost of \$112,980; and authorize the Chairman to execute the same, after approval by the County Attorney.

**Attachment:**

1. BGE Change Order No. 2