

NASSAU COUNTY WORK AUTHORIZATION #22

CS-24-552

Contract Number:	CM3621
Consultant/Vendor:	S2L, Inc.
Consultant/Vendor Contact Name:	Samuel B. Levin
Consultant/Vendor Contact Phone Number:	407-475-9163
Consultant/Vendor Contact Email Address:	slevin@s2li.com
Project Short Title:	Fiscal Year 2026 Operation, Monitoring, Maintenance, and Reporting for the Landfill Gas Collection and Control System at the West Nassau Class I Landfill
Total Amount of Previous Work Authorizations:	\$764,552.39
Amount of this Work Authorization:	\$174,338.00
New Contract Amount including this Work Authorization:	\$938,890.39
Funding Source:	01362534-531325 -\$134,240.00 / 01361534-531325 - \$40,098.00

This Work Authorization is issued pursuant to the Contract referenced above between Nassau County and the Consultant/Vendor for the following services:

ARTICLE 1. Description of Services. Consultant/Vendor shall provide the services as set forth in Exhibit "A", attached hereto and incorporated herein.

ARTICLE 2. Time Schedule. Consultant/Vendor anticipates the services to be completed pursuant to the time schedule contained in Exhibit "A", attached hereto and incorporated herein, or no later than September 30, 2026. The parties agree that this Work Authorization shall be considered as the Notice to Proceed.

ARTICLE 3. Compensation. Consultant/Vendor shall be compensated for the services in detailed in Exhibit "1", attached hereto and incorporated herein, using rates previously established in the Contract referenced above.

ARTICLE 4. Other Provisions. This Work Authorization shall become a part of the Contract when executed by both parties. Any Work Authorization entered into prior to expiration or termination set forth in the Contract shall continue in effect through the earlier of: (i) the date all of the Services thereunder have been fully completed and accepted by Nassau County, or (ii) until such time as such Work Authorization expires or is terminated in accordance with its terms or is terminated pursuant to Article 2 hereof. Consultant/Vendor acknowledges that all drawings, data, electronic files and other information required for this Work Authorization has been accepted by

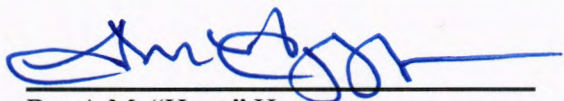
Consultant/Vendor. Specifically, all electronic files have been reviewed and accepted for the purposes of this Work Authorization.

RECOMMENDED AND APPROVED BY:

Department Head/Managing Agent:	<u>Doug Podiak</u>	<u>8/21/2025</u>	Date
Procurement:	<u>Samuel B. Levin</u>	<u>8/22/2025</u>	Date
Office of Management & Budget:	<u>Chris Lacambra</u>	<u>8/21/2025</u>	Date <i>JP</i>
County Attorney:	<u>Denise C. May, Esq., BCS</u>	<u>8/27/2025</u>	Date <i>EM</i>
	<u>Denise C. May</u>		Date

IN WITNESS WHEREOF, the Parties have caused this Work Authorization to be executed by its duly authorized representatives, effective as of the last date below.

**BOARD OF COUNTY COMMISSIONERS
NASSAU COUNTY, FLORIDA**

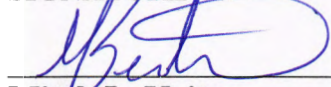


By: A.M. "Hupp" Huppmann

Its: Chair

Date: 9-22-2025

**ATTEST TO CHAIR'S
SIGNATURE**



Mitch L. Keiter

Its: Ex-Officio Clerk

S2L, INCORPORATED

BY: Samuel B. Levin

Print Name: Samuel B. Levin

Title: President

Date: 8/26/2025

Exhibit "A"
Scope of Services
Fiscal Year 2026
Operation, Monitoring, Maintenance, and Reporting
for the
Landfill Gas Collection and Control System
at the
West Nassau Class I Landfill

County Contract Number: CM3621-WA22
S2Li Project Number: 25-1106

Work Authorization Service Period: Fiscal Year 2026 (October 1, 2025 through September 30, 2026)

This Work will provide for the operation, monitoring, maintenance, and reporting of the Landfill Gas (LFG) Collection and Control System (CCS or LFGCCS) at the West Nassau Landfill. The existing systems at the Landfill consist of approximately 50 vertical gas wells, 5 condensate pump stations, 12 condensate connections to the leachate collection system risers, LFG header and lateral piping, control valves, 2 air compressors, blower, and control station, and 1 candlestick flare. Under the scope of work for this Contract, S2L, Incorporated (S2Li) and its team of subconsultants shall perform four categories of service during a service time period, beginning on the contract date, which includes the following:

- | | |
|--------|--|
| Task 1 | a) Routine operation and monitoring of the blower flare station, extraction well system, and conveyance piping; and
b) Reporting to the County. |
| Task 2 | Non-routine scheduled maintenance. |
| Task 3 | Non-routine unscheduled emergency services. |
| Task 4 | Parts and subcontractors for non-routine services. |
| Task 5 | Miscellaneous Services. |

Although as of July 1, 2024, the LFGCCS is no longer operating under a Title V air permit or related regulations, the existing "Non-Title V" permit does require the County to operate and maintain the LFGCCS for odor control and to prevent the accumulation of LFG under the liner cap. Therefore, S2L, Incorporated (S2Li) will attempt to maintain and operate the LFGCCS within past Title V regulatory operating parameters and standards. Any needed deviations of these parameters (e.g. shutting down a LFG collection well) will be discussed with the County to adjust the Standard Operating Procedures that would be beneficial to the County while maintaining odor control and the accumulation of LFG under the liner cap.

It should be noted that this scope of services is for the period of October 1, 2025 through September 30, 2026.

County Responsibilities

In general, the County shall:

1. Provide access to the site at reasonable times.
2. Provide a Landtec GEM2000, GEM5000, or equivalent to measure LFG flow rates, composition, and pressures at each wellhead, header/lateral piping, and flare station. The County is responsible for satisfying the manufacturer's recommended factory maintenance of the instrument (every 6 months for the GEM2000 or every 12 months for the GEM5000), as well as any unscheduled repair or maintenance of the instrument). If the County cannot provide a calibrated gas measuring unit, S2Li will provide a unit and bill the County as a rental unit under Task 4.
3. A continuous LFG flow monitoring system and recorder must continue to be provided and maintained
4. Respond to system dialer alerts and alarms such as flare outages, blower shutdown, etc., and attempt to determine system fault and, if possible, restart the system. If the system cannot be restarted to normal continuous operations, notify S2Li to assist as provided under Task 3.
6. Check the air compressor systems.
7. Replace or maintain compressed (nitrogen or air) gas canisters for the operation of the automatic control valves and propane gas canisters for the operation of the flare.
8. Maintain and operate the onsite back-up power generators per the County's air permit requirements including recording run-time information for inspection by FDEP.
9. Provide for additional spare parts or other equipment if not sufficiently budgeted under this work authorization.
10. Pay for any required permit fees.

Schedule

Work under the Scope of Services provided below will begin October 1, 2025 and run through this service period ending September 30, 2026.

Cost Estimate

The cost estimate to conduct the Work as described in the below-listed Scope of Services is **\$174,338.00**. A detailed breakdown for each task with the estimated labor hours and expenses is included in the attached Exhibit 1. Costs will be invoiced on a time and materials basis. The County will be notified when the overall project budget is nearing its limit.

Scope of Services

Task 1 – Routine Operation, Monitoring, Adjustments, and Reporting

The LFGCCS for the West Nassau Landfill will be operated, maintained, and monitored in accordance with the facility's air permit, including pertinent calibrations, monitoring, and reporting. Operation and monitoring will include, but not be limited to, the following schedule:

1.1 Blower/Flare Station

A. Monthly Blower/Flare Station Checks

S2Li will visit the site once per month to perform the following services:

1. Measure and record LFG composition (methane, carbon dioxide, oxygen, and balance gas percent by volume), pressure, and temperature at the flare inlet.
2. Record LFG flow rate to the flare and thermocouple temperature as displayed on the control panel indicator.
3. Measure and record the pressure at the condensate knockout pot, the blower inlet and outlet, the flame arrester inlet and outlet, and the pressure drop across the flame arrester.
4. Adjust the system to increase or decrease the LFG flow depending on the monitoring data to maintain proper gas quality and provide sufficient vacuum to the extraction system.
5. Minor items such as damaged monitoring ports and temperature gauges will be repaired or replaced when encountered. Major repair problems will be reported to the County immediately and covered under Task 2 as appropriate.
6. Check the flare pilot system and propane cylinder levels.
7. Check compressed nitrogen or air cylinder levels for the operation of the main automatic control valves.
8. Observe and record any problems with equipment including any flare shutdowns. Check and adjust controller setpoints.
9. Check air compressors' operation including above-ground airlines.
10. Check and add grease (if needed) for the blower bearings.

B. Quarterly Blower/Flare Station Checks

S2Li will visit the site quarterly (may be conducted during a normal monthly visit) to do the following:

1. Compressors' belt replacement (as needed).
2. Blow out compressors' airline (as needed).
3. Replace blower bearing grease. Services required will be addressed under Tasks 2 and 4.

C. Annual Blower/Flare Station Checks

S2Li will visit the site once per year to do the following:

1. Conduct a system test in cooperation with the County. Test all blower/flare controls, meters, chart recorders, and automatic feature functions including startup and shutdown checks, emergency shutdown valve function, and emergency call-out check.
2. Calibrate gas flow meter. (Provide County with calibration certification documentation.)
3. Check and clean the flare flame arrester and knock-out pot.
4. Clean the UV eye in the flare stack.

1.2 LFG Extraction System

A. Monthly LFG Extraction Systems Checks and Tuning

S2Li will visit the site at least once per month to do the following:

1. Perform preventive and corrective maintenance relative to the LFG Extraction Systems in accordance with applicable federal and state laws, regulations, and permits and generally accepted or recommended industry maintenance practices, procedures, and standards. Additional adjustments may be required to address odor concerns. Note: This service may be required under Tasks 2, 3, and 4.
2. At each well extraction point, the following shall be measured and/or observed and recorded.
 - a. LFG flow rate.
 - b. LFG composition (methane, carbon dioxide, oxygen, and balance gases). Oxygen levels above 5 percent shall be noted and addressed.
 - c. LFG pressure - Pressures shall be noted and addressed. *(Note: Since the landfill was closed with the use of geomembrane or synthetic cover, positive pressures are allowed. However, the facility will be tuned such that each well will be pulling a vacuum, if possible).*
 - d. LFG temperature - Temperatures equal to or above 131 degrees Fahrenheit shall be noted and addressed.
 - e. The condition of the wellhead piping and well bore seal condition at the landfill surface.
 - f. In conjunction with the once-per-month monitoring, adjustments to the system shall be made as required to maintain odor control and system balance. If pressure, composition, and temperature exceedances as noted above cannot be corrected within 15 days by adjusting the system, S2Li will notify the County and discuss the ways to correct the exceedance. Any such corrective actions shall be conducted in accordance with Tasks 2, 3, and 4.
 - g. Check the condensate handling system for proper operation. Perform an external inspection of condensate sumps, condensate traps, pump stations, and condensate discharge locations. Where the pumps discharge to an above-ground well riser or below-ground injection system, visually confirm that liquid is being pumped.
 - h. Report to the County within 24 hours of measurement or observation, any abnormal readings of LFG temperature (131 degrees Fahrenheit or greater, oxygen levels above 5 percent) or other observations (such as a smoky odor or substantial waste settlement) which may be indicative of a subsurface landfill fire.

There may be a need for follow-up work related to retesting after adjustment to the wellfield system or for any corrections to the system. One additional day per month has been budgeted for retesting wells and connection points found to be out of compliance during the routine monthly monitoring event. This work does not include any non-routine services, or the purchase and installation of required parts and supplies included under Tasks 2, 3, and 4.

B. Annual LFG Extraction System Checks

S2Li will visit the site once per year to perform the following services:

1. Condensate pumps shall be pulled and inspected with some pumps requiring more in-depth servicing due to their particular environment.
2. Exercise all valves annually. The wellhead valves will be exercised on an annual basis. If it reaches a point where five valves failed the exercising procedure, the exercising of the valves will be discontinued until after the valves are either repaired or replaced. Upon approval by the County, work to repair or replace the items identified under this task will be billed under Tasks 2 and 4 assuming sufficient funds are available.

C. Semi-Annual Monitoring of the Perimeter LFG Methane Monitoring Probes

S2Li will utilize County equipment in order to test semi-annually for methane concentrations at 29 gas monitoring probes located near the property boundary and within ambient air inside identified enclosed structures within the landfill boundary to determine the effectiveness of the gas migration controls by December 31, 2025 and July 1, 2026.

1.3 Reporting

A. Monthly Reporting

- i. A summary report shall be submitted to the County around the 15th of each month summarizing the previous month of operation.
- ii. All wellhead monitoring data required shall be kept on file and stored/backed up off-site. The monthly report shall include wellhead readings of gas composition (methane, carbon dioxide, oxygen, and balance gas), pressure, temperature, and flow rate. Readings and comments shall also be included for rechecks of wells that are out of compliance with wellhead operating criteria. The report shall detail the cause of the non-compliance, all remedial actions taken to correct the non-compliance, any future work that may be necessary to keep the wells in compliance, and any other information as required under this Task.
- iii. Flare station data to be included in the report shall include gas composition and temperature, vacuum applied to the header system, and flow rate.
- iv. Although not required under the air permit, to document information concerning the operation of the flare station, record information into the applicable Startup, Shutdown, and Malfunction (SSM) Plan forms and provide them to the County for the operating record.
- v. Any condensate management system monitoring data shall also be provided in the monthly report.

B. Semi-Annual Reporting

1. Semi-Annual Methane Monitoring Reports. S2Li will prepare and submit a report for each testing event to the FDEP per Section 2 - Specific Condition No. E4 (May 2025 Permit) of the long-term care permit. The gas monitoring results shall be reported as a percent of the lower explosive limit (LEL), calibrated to methane. In accordance with the permit, monitoring probes shall be monitored by July 31 and January 31 of each year. Testing usually occurs in June and December of each calendar year. The report shall be submitted to the Department under separate cover no later than 15 days after the end of the period in which the monitoring occurred.

Task 2 – Non-Routine Scheduled Maintenance

- A. S2Li's duties under this section shall include non-routine scheduled maintenance consisting of corrective repair or maintenance work identified during the monthly monitoring. This work shall include but not be limited to:

1. Header and lateral pipe realignment.
2. Determining water levels in wells.
3. Adding pumps to wells.
4. Resetting of pipe supports.
5. Repairing of broken valves.
6. Replacing well heads.
7. Replacing flex hoses (e.g., torn, degraded, needs extension).

8. Overseeing the repair of all items associated with the landfill cap which resulted from the repair or movement of header pipes and/or lateral lines.
9. Overseeing the repair of the landfill closure liner cap system.
10. Adding new monitoring ports as needed to measure pressure levels.
11. Repairing or replacing damaged or broken monitoring ports, valves, couplings, thermometers, and clamps.
12. Cleaning and adjusting the flame arrester.
13. Cleaning and adjusting condensate pumps and components.
14. UV eye cleaning.
15. Replacing flare station components such as thermocouples, etc.
16. Replacing or cleaning the filter within the Knockout Pot at the Flare Station.
17. LFG analytical sampling.
18. Replacing or maintaining propane tanks for the operation of the ignition systems.
19. Providing rental equipment.
20. Changing bearing grease for the blower (quarterly).
21. Having the LFG flow meter removed, calibrated, and reinstalled. A temporary rental meter may be required to be installed and removed.
22. Assessing, ordering, and/or replacement of parts.

B. This type of work under Task 2 is critical for system operation and the required services are difficult to predict during a contract service period. Some of these services under Task 2 may be provided by a specialized subcontractor. The number of authorized hours may exceed the amount budgeted for this work authorization due to the level of effort required under Task 2. These additional hours may potentially utilize a portion of the budget allocated for parts or other services. Payment for Task 2 shall be billed at the contract hourly rate. All parts and/or rental equipment are to be paid at the delivered cost. S2Li shall submit a copy of the invoice for the parts used for price verification along with the invoice submitted to the County for payment under Task 4 – Parts and Subcontractors for Non-Routine Services unless the County elects to provide a Purchase Order for the direct purchase of a part. Should a Subcontractor be required for construction-related work, it must be authorized in writing by the County under Task 4 – Parts and Subcontractors for Non-Routine Services. The total costs for the services provided under this task are limited to the budgeted amount under this task. If the costs for services are expected to exceed the budget amount or amount remaining under this task, S2Li will notify the County and alternative funding will be obtained.

Task 3 – Non-Routine Unscheduled Emergency Services

S2Li duties under this task include events that require immediate response to assist County personnel. Due to the urgent nature of these items, they cannot be scheduled. The events and services under this task could include, but are not limited to:

- a. Blower/Flare Station shut down;
- b. Repair of main header or lateral line breaks;
- c. Response to odor complaints;
- d. Installing replacement extraction wells;
- e. Repair/maintenance and troubleshooting of the blowers and flare; and
- f. The detection of LFG migration.

Sampling of LFG composition and pressures within various locations of the header pipe may also be necessary to diagnose problems within the LFG collection system, such as condensate accumulation, pipe obstructions, broken valves, etc.

S2Li is available to be contacted 24 hours a day, 7 days a week and, if required, will usually be on-site within 24 hours of notification.

S2Li Contact: Omar E. Smith, P.E., V.P.,
Regional Manager
Tel: 407-475-9163
Cell: 770-330-1638

Work under this task shall be conducted upon authorization by the County and shall be billed at the hourly contract rate for Task 3. All parts are to be paid at the delivered cost. Should a Subcontractor be required for specialty-related work, it must be authorized in writing by the County under Task 3 or Task 4 – Parts and Subcontractors for Non-Routine Services.

The total costs for the services provided under this task are limited to the budgeted amount under this task. If the costs for services are expected to exceed the budget amount or the amount remaining under this task, S2Li will notify the County and alternative funding will be obtained.

Task 4 - Parts and Subcontractors for Non-Routine Services

- A. Required parts and/or rental equipment provided by S2Li's services under Tasks 2 and 3 are to be paid under Task 4. All parts or equipment are to be paid at the delivered cost. S2Li shall submit a copy of the invoice for the parts or rental equipment used for price verification, along with the invoice submitted to the County for payment from the funds allocated for Task 4 – Parts and Subcontractors.
- B. Should S2Li require a Subcontractor for specialty-related work such as realignment of lateral and header lines, repairs to the Flare Station, or repair to the liner cap system, etc., an estimate for the Subcontractor's work must be submitted to the County for review and approval. The Subcontractor's work must be authorized by the County. No work shall be conducted under this task unless authorized, in writing, by the County.
- C. S2Li shall submit a copy of the Subcontractor's invoice for price verification along with S2Li's invoice. The total costs for the services provided under this task are limited to the budgeted amount under this task. If the costs for services are expected to exceed the budget amount or the amount remaining under this task, S2Li will notify the County, and alternative funding will be obtained.

Task 5 – Miscellaneous Services

S2Li is to provide miscellaneous services to address assignments by the County, including updating existing reports, preparing new reports, addressing rule changes, etc. The total work effort is limited to the budget limit provided in this work authorization.

LABOR		LABOR CATEGORY AND RATE										TOTAL HOURS	SUBTOTAL LABOR
		Project Dir./	Regional Manager/	Principal	Senior	Project	Associate	Field	Office				
		Principal	QC Officer	Engineer	Engineer	Engineer	Engineer/CADD	Technician	Manager				
TASK	DESCRIPTION	\$295.00	\$254.00	\$204.00	\$179.00	\$129.00	\$95.00	\$90.00	\$116.00				
1	Routine Operation, Monitoring, Adjustments, and Reporting	20	136	0	40	292	64	0	26			578	\$94,368.00
1.1	Blower/Flare Station (12 events)	0	24	0	0	12	12	0	0			48	\$8,784.00
1.2	LFG Extraction System (2/month; 24 events)	12	48	0	24	240	16	0	12			352	\$53,900.00
1.3	Reporting												\$0.00
1.3A	Monthly (12 events)	6	48	0	12	24	36	0	12			138	\$24,018.00
1.3B	Semi-Annual (2 events)	2	16	0	4	16	0	0	2			40	\$7,666.00
2	Non-Routine Scheduled Maintenance	2	24	0	6	96	4	0	1			133	\$20,640.00
3	Non-Routine Unscheduled Emergency Services	2	16	0	0	16	4	0	1			39	\$7,214.00
4	Parts and Subcontractors for Non-Routine Services	0	8	0	8	2	2	0	2			22	\$4,144.00
5	Miscellaneous Services	2	14	0	6	0	0	0	2			24	\$5,452.00
	SUBTOTALS:	26	198	0	60	406	74	0	32	0	0	796	\$131,818.00

EXPENSES		Field Vehicle (\$120/day)	Lab Testing (est.)	Equipment Rental (est.)	Parts (est.)				Subcontractors (est.)				SUBTOTAL EXPENSES
		(Attachment 1)	(est.)	(Attachment 1)	(Attachment 1)				(Attachment 1)				
1	Routine Operation, Monitoring, Adjustments, and Reporting												
1.1	Blower/Flare Station (12 events)												\$ -
1.2	LFG Extraction System (2/month; 24 events)	\$ 2,880.00						\$0.00					\$ 2,880.00
1.3	Reporting												
1.3A	Monthly (12 events)						\$ -						\$ -
1.3B	Semi-Annual (2 event)							\$0.00					\$ -
2	Non-Routine Scheduled Maintenance	\$ 1,440.00			\$ 500.00								\$ 1,940.00
3	Non-Routine Unscheduled Emergency Services				\$ 2,500.00				\$ 10,500.00				\$ 13,000.00
4	Parts and Subcontractors for Non-Routine Services			\$ 3,300.00	\$ 4,900.00				\$ 16,500.00				\$ 24,700.00
5	Miscellaneous Services												\$ -
	SUBTOTALS:	\$ 4,320.00	\$ -	\$ 3,300.00	\$ 7,900.00		\$ -	\$ -	\$ 27,000.00				\$ 42,520.00

				COST SUMMARY				
Estimated Fee By Landfill for County Accounting Purposes:				TASK	DESCRIPTION	SUBTOTAL LABOR	SUBTOTAL EXPENSES	TASK TOTAL
West Nassau Class I Lined Landfill (42 acre area):	\$	134,240.26	77%	1	Routine Operation, Monitoring, Adjustments, and Reporting	\$94,368.00	\$2,880.00	\$97,248.00
West Nassau Unlined Landfill (11 acre area):	\$	40,097.74	23%	2	Non-Routine Scheduled Maintenance	\$20,640.00	\$1,940.00	\$22,580.00
Total:	\$	174,338.00	100%	3	Non-Routine Unscheduled Emergency Services	\$7,214.00	\$13,000.00	\$20,214.00
				4	Parts and Subcontractors for Non-Routine Services	\$4,144.00	\$24,700.00	\$28,844.00
				5	Miscellaneous Services	\$5,452.00	\$ -	\$5,452.00
				TOTALS		\$131,818.00	\$42,520.00	\$174,338.00

Service Period Estimate
Fiscal Year 2026 (October 1, 2025 through September 30, 2026)
Operation, Monitoring, Maintenance, and Reporting
Landfill Gas Collection and Control System
West Nassau Class I Landfill
Nassau County, Florida

S2Li No. 25-1106
County No. CM3621-WA22

Attachment 1 - Estimate of Parts, Rental Equipment, Sullivan Environmental, Subcontractors, Misc.

Parts, Rental Equip., Subcontractors, Misc. Cost Estimate							FY2016					
No.	Item/Event	Manufacturer or Subcontractor	\$/Item or Event	Item or Event Type	NO. OF Items or Events	Total Cost	Costs Under Task 1	Costs Under Task 2	Costs Under Task 3 -Exp	Costs Under Task 3 -Sub	Costs Under Task 4-Exp	Costs Under Task 4-Sub
1.	GEM5000 & SEM500 Rental		\$ 400	per day	0	\$ -					\$ -	
2.	Blower/Motor Belt (est)		\$ -	ea.	0	\$ -					\$ -	
3.	Blower Replacement Grease & Disposal	Sullivan Envir.	\$ 2,000	per event	4	\$ 8,000						\$ 8,000
4.	Flow Meter Calibration											
	- Manufacturer Calibration & Rental Costs	Thermal Instr.	\$ 2,000	per event	1	\$ 2,000					\$ 2,000	
	- Field Removal and Install Costs	Sullivan or S2Li	\$ 1,500	per event	2	\$ 3,000						\$ 3,000
5.	Flare Station Check/Maintenance											
a.	- UV Eye Cleaning and Visual inspection											
	Rental - Manlift	Rental	\$ 1,300	per event	1	\$ 1,300					\$ 1,300	
	Labor	Sullivan Envir.	\$ 2,300	per event	1	\$ 2,300						\$ 2,300
	- Mob/Demob	Sullivan Envir.	\$ 1,300	per event	1	\$ 1,300						\$ 1,300
b.	- Cleaning of knock-out pot filter	Sullivan Envir.	\$ -	per event	1	\$ -						\$ -
c.	- Cleaning of flare arrestor	Sullivan Envir.	\$ -	per event	1	\$ -						\$ -
d.	- System Check - Mics Equipment & Parts	Sullivan Envir.	\$ 200	per event	1	\$ 200						\$ 200
6.	Condensate Pump - Shop Cleaning/Repair	Sullivan	\$ 350	per event	2	\$ 700						\$ 700
7.	GW-6 or 11 Type Repair	Sullivan Envir.										
a.	Parts	Isco	\$ 1,000	per event	2	\$ 2,000			\$ 2,000			
b.	Labor	Sullivan Envir.	\$ 1,200	per event	2	\$ 2,400				\$ 2,400		
8.	Sullivan Envir. Mob/Demob	Sullivan Envir.	\$ 1,800	per event	1	\$ 1,800				\$ 1,800		
9.	Emergency Subcontractor Services		\$ 3,000	ea.	1	\$ 3,000				\$ 3,000		
10.	Miscellaneous Costs	Sullivan Envir.	\$ 1,300	per event	1	\$ 1,300				\$ 1,300		
	Total Cost Estimate					\$ 29,300	\$ -	\$ -	\$ 2,000	\$ 8,500	\$ 3,300	\$ 15,500
	Other											
1.	Truck Rental	Ecotec	\$ 120	per day	36	\$ 4,320	\$ 2,880	\$ 1,440				
2.	Ecotec Database		\$ -	per month	12	\$ -	\$ -					
3.	Spare Parts											
a.	Parts - Miscellaneous		\$ 2,000	ea.	1	\$ 2,000					\$ 2,000	
b.	Parts - Wellheads		\$ 600	ea.	4	\$ 2,400					\$ 2,400	
	Total Parts		\$ 2,600			\$ 4,400	\$ -	\$ -	\$ -	\$ 2,000	\$ 4,400	
4.	Miscellaneous or Identifiable Costs					\$ 4,500	\$ -	\$ 500	\$ 500	\$ 2,000	\$ 500	\$ 1,000
TOTAL						\$ 42,520	\$ 2,880	\$ 1,940	\$ 2,500	\$ 10,500	\$ 8,200	\$ 16,500

Note: Due to the current inflationary adjustments and increased costs, actual costs may vary and passed through.

\$ 2,880 \$ 1,940 \$ 13,000 \$ 24,700

**Operation, Monitoring, Maintenance, and Reporting
FY2026**

**Landfill Gas Collection and Control System
West Nassau Landfill, Nassau County , Florida**

Form Date:

7/25/25

Contract Service Period: October 1, 2025 through September 30, 2026		FY2026											
Fiscal Year Month		Oct 25	Nov 25	Dec 25	Jan 26	Feb 26	Mar 26	April 26	May 26	June 26	July 26	Aug 26	Sept 26
Routine Operation, Monitoring, Adjustments, and Reporting													
1. Blower/Flare Station													
<u>A. Monthly Blower/Flare Station Checks</u>													
Measure and record LFG composition		●	●	●	●	●	●	●	●	●	●	●	●
Record LFG flow rate to the flare and thermocouple temperature		●	●	●	●	●	●	●	●	●	●	●	●
Measure and record pressure		●	●	●	●	●	●	●	●	●	●	●	●
Adjust the system to increase or decrease the LFG flow		●	●	●	●	●	●	●	●	●	●	●	●
Repair or replace damaged monitoring ports and temperature gauges		●	●	●	●	●	●	●	●	●	●	●	●
Check flare pilot system and propane cylinder levels		●	●	●	●	●	●	●	●	●	●	●	●
Check compressed nitrogen or air cylinder levels		●	●	●	●	●	●	●	●	●	●	●	●
Observe and record any problems with equipment		●	●	●	●	●	●	●	●	●	●	●	●
Check air compressors' operation		●	●	●	●	●	●	●	●	●	●	●	●
Open flare base drain to allow liquid to drain then close		●	●	●	●	●	●	●	●	●	●	●	●
Check and add grease		●	●	●	●	●	●	●	●	●	●	●	●
<u>B. Quarterly Blower/Flare Station Checks</u>													
Blow out compressors' airline (as needed).		●			●			●			●		
Change blower bearing grease				●				●				●	
<u>C. Annual Blower/Flare Station Checks</u>													
Conduct a System test					●								
Manufacturer calibration of gas flow meter/Rent Flow Meter						●							
Check and clean the flare arrestor					●								
Check and clean knock-out pot					●								
Check and clean the UV eye in the flare stack					●								
Pull, inspect, and clean pneumatic pump					●								
2. LFG Extraction System													
<u>A. Monthly LFG Extraction Systems Checks and Tuning</u>													
All system components shall be checked for proper operation		●	●	●	●	●	●	●	●	●	●	●	●
Perform preventive and corrective maintenance		●	●	●	●	●	●	●	●	●	●	●	●
At each well: measured and/or observed and record the following:		●	●	●	●	●	●	●	●	●	●	●	●
LFG flow rate		●	●	●	●	●	●	●	●	●	●	●	●
LFG composition		●	●	●	●	●	●	●	●	●	●	●	●
LFG pressure		●	●	●	●	●	●	●	●	●	●	●	●
LFG temperature		●	●	●	●	●	●	●	●	●	●	●	●
The condition of the well head piping and well bore seal condition		●	●	●	●	●	●	●	●	●	●	●	●
Adjustments to the system		●	●	●	●	●	●	●	●	●	●	●	●
Check condensate handling system		●	●	●	●	●	●	●	●	●	●	●	●
Record condensate pump counters		●	●	●	●	●	●	●	●	●	●	●	●
Report within 24 hours of measurement or observation any abnormal readings		●	●	●	●	●	●	●	●	●	●	●	●
<u>B. Semiannual LFG Extraction System Checks</u>													
Condensate pumps shall be pulled and inspected (annually for all, 2 semi)							●	All			2 pumps		●
<u>C. Annual LFG Extraction System Checks</u>													
Exercise all valves semi-annually							●						●
3. Reporting													
<u>A. Monthly Reporting to County</u>		●	●	●	●	●	●	●	●	●	●	●	●
<u>B. Methane (LEL) Monitoring at Property Boundary (GP-1 to GP-29, ES-1 to ES-3)</u>				●						●			