

**WORK AUTHORIZATION # 41
NASSAU COUNTY
BOARD OF COUNTY COMMISSIONERS**

CS-22-381

Consultant/Vendor:	S2L, Incorporated
Contract Number:	CM2685
Contact Name:	Omar Smith, P.E., V.P.
Contact Number:	407-475-9163
Email:	osmith@s2li.com

CURRENT WORK AUTHORIZATION			
Project Short Title: Operation, Monitoring, Maintenance, and Reporting for Landfill Gas Collection and Control System			
		CONTRACT OVERVIEW	
Date Submitted	8/1/2023	Total of Previous Authorizations	\$1,868,119.11
Amount	\$192,690.92	This Work Authorization	\$192,690.92
Scheduled Completion	September 30, 2024	New Contract Amount including this work authorization	\$2,060,810.03

This Work Authorization is to the AGREEMENT between Nassau County and S2L, Incorporated (“Vendor”) for the Continuing Contract for Professional Engineering Services-Solid Waste Landfills and Other Related Ancillary Facilities for Nassau County, Florida, dated July 26, 2019. The services to be provided under this Work Authorization are as follows:

ARTICLE 1. Services Described as:

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. The work described to conduct this service is attached hereto as **Exhibit “A”**.

ARTICLE 2. Time Schedule

Vendor anticipates work under the Scope of Services provided to be completed no later September 30, 2024.

ARTICLE 3. Budget

Vendor will perform the services described outlined herein for the amount of \$192,690.92. Vendor's fee amounts are detailed further in **Exhibit "B"** Vendor will be using rates previously established under Contract CM2685.

ARTICLE 4. Other Provisions

The Services covered by this Work Authorization will be performed in accordance with the provisions set forth in the AGREEMENT referenced above and any of its attachments or schedules. Additional terms or contract provisions whether submitted purposely or inadvertently, shall have no force or effect. This Work Authorization will become a part of the referenced AGREEMENT when executed by both parties.

Any Work Authorization entered into prior to expiration or termination set forth in the AGREEMENT 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.

In presenting this Work Authorization, Vendor agrees that:

Unless detailed herein, all drawings, data, electronic files and other information required for this Work Authorization has been accepted by Vendor. Specifically, all electronic files have been reviewed and accepted for the purposes of this Work assignment. Any additional information, including detailed scope of services are attached.

AGREED TO BY:

BY: Sam Levin
Print Name: Sam Levin
Title: President
Date: 8/22/2023

RECOMMENDED AND APPROVED BY NASSAU COUNTY:

Department Head/Managing Agent: Doug Podiak 8/18/2023

Procurement: Ranasa Kilmote 8/21/2023

Office of Management & Budget: Chris Lacambra 8/18/2023 *TL*

County Manager: Taco E. Pope, AICP 8/22/2023
Taco E. Pope, AICP

Ex-Officio Clerk:

*See below

John A. Crawford

County Attorney:

Denise C. May


8/22/2023

Abigail F. Jorandby

8/22/2023

APPROVED by the BOARD OF COUNTY COMMISSIONERS, this 20th day of September, 2023.

BOARD OF COUNTY COMMISSIONERS
NASSAU COUNTY, FLORIDA



Klynt A. Farmer
Chairman

ACCOUNT NO.: 01361534-531325 \$ 44,318.91 01362534-531325 \$148,372.01

ATTESTATION: Only to Authenticity as to Chairman's Signature:

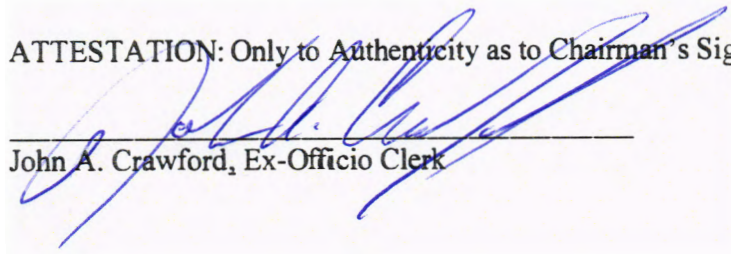

John A. Crawford, Ex-Officio Clerk

EXHIBIT "A"

Scope of Services

**Fiscal Year 2024
Operation, Monitoring, Maintenance, and Reporting
for the
Landfill Gas Collection and Control System
at the
West Nassau Class I Landfill**

**County Contract Number: CM2685-WA41
S2Li Project Number: 23-1017**

Work Authorization Service Period: Fiscal Year 2022 (October 1, 2023 through September 30, 2024)

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;
- b) Annual LFG Flare Visible Emission Testing; and
- c) Reporting.
- 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.

It should be noted that this scope of services is for the period of October 1, 2023 through September 30, 2024.

County Responsibilities

In general, the County shall:

1. Provide access to the site at reasonable times.
2. Provide S2Li with records and copies of previous operations and monitoring reports, permits, maintenance reports, past semi-annual and annual reports to regulatory agencies, operation and maintenance manuals, operations plans, and correspondences to and from regulatory agencies.
3. 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 six 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.

4. Provide, replace, and store the Flare Station LFG flow chart. A continuous LFG flow monitoring system and recorder must continue to be provided and maintained in order to comply with monthly greenhouse gas (GHG) monitoring.
5. 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. Record information into Startup, Shutdown, and Malfunction (SSM) Plan forms and provide them to S2Li. Report to S2Li any necessary changes.
7. By March 1st of each year, provide S2Li with any necessary records for the Title V annual operating report (due April 1st of each year).
8. Provide monitoring and reporting of the landfill's perimeter gas probes and within enclosed structures to the Florida Department of Environmental Protection (FDEP) per Section 2 -Specific Condition No. E4 (April 2020 Permit) of the long-term care permit.
9. Check the air compressor systems.
10. 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.
11. Provide for additional spare parts or other equipment if not sufficiently budgeted under this work authorization.
12. Pay for any required permit fees and the Title V Annual Emission Fee Invoice.

The West Nassau LFG Collection System is operated to vent all collected LFG to an open flare operated in compliance with New Source Performance Standards (NSPS) requirements. In the event that the collection system is inoperable, it will be shut down and any valves in the LFGCCS contributing to the venting of gas to the atmosphere will be closed within one hour. NSPS operational and testing requirements apply at all times, except during periods of start-up, shutdown, or malfunction, provided that the duration of start-up, shutdown, or malfunction does not exceed five days for collection systems and does not exceed one hour for treatment and control devices (i.e. flares).

Schedule

Work under the Scope of Services provided below will begin October 1, 2023 and run through this service period ending September 30, 2024.

Cost Estimate

The cost estimate to conduct the Work as described in the below-listed Scope of Services is \$192,690.92. 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 LFG collection and control systems for the West Nassau Landfill will be operated, maintained, and monitored in accordance with NSPS requirements per 40 Code of Federal Regulations (CFR) 60 Subpart WWW, 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. This information will be utilized as a part of the annual GHG reporting requirements.
2. Record LFG flow rate to the flare and thermocouple temperature as displayed on the chart recorder or 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 meters. (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. All system components shall be checked for proper operation in accordance with NSPS requirements 40 CFR 60.
2. 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.
3. 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. Meeting oxygen parameters (<5%) is no longer required under NSPS requirements.
 - c. LFG pressure - Pressures shall be noted and addressed per NSPS requirements. *(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 per NSPS requirements.
 - 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, system balance, and NSPS compliance. 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 the FDEP. A plan will be developed by S2Li with County input and with the Subcontractor's assistance, to correct the exceedance within 120 calendar days. 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. This reporting procedure is not necessary for wells operating under an "Alternative Operating Procedure (AOP) or Alternate Standards (AS)" as allowed under the Title V permit.

There may be a need for follow-up work related to retesting after adjustment to the wellfield system, per NSPS requirements, 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.
3. Surface Emission Testing (Annual Testing)
The West Nassau Landfill gas collection and control system is operated to prevent methane concentrations from exceeding 500 parts per million by volume (ppm_v) above background levels at the surface of the landfill. To determine if this level is exceeded, surface testing is performed around the perimeter of the collection area and along a pattern that traverses the landfill at 30-meter intervals including at each well location, at the open penetration locations, and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover. A surface monitoring design plan has been developed that includes a topographical map with the monitoring route and the rationale for any site-specific deviations from the 30-meter intervals. A monitoring probe will be kept within 2 to 4 inches of the landfill surface while continuous sampling is performed. Surface emissions testing is performed using an NSPS-compliant portable monitor and in compliance with all NSPS procedures. Results from the surface monitoring will be included in the semi-annual NSPS report submitted to FDEP. The testing day will be scheduled during typical weather conditions for the time of year but may need to be changed due to forecasted heavy rains or unseasonably high winds.

Because no exceedances have occurred in at least the past three quarterly surface emission monitoring periods, the County is allowed to reduce the frequency of surface testing to once per year, as long as there are no additional exceedances recorded during subsequent testing periods. If exceedances do occur, additional testing periods will be required. These additional testing or retesting events are not included in this scope of services and can be provided as an additional service or provided as a component of unscheduled maintenance, as described within Task 2.

Any reading of 500 ppm_v or more above the background measured at any location during the surface emissions testing is recorded as a monitored exceedance. In the event of exceedance, the County will be notified, and corrective actions implemented as described below. The exceedance is not a violation of the NSPS operational requirements as long as the following actions are taken:

- The location of each monitored exceedance will be marked and the location recorded;
- Cover maintenance or adjustments to the vacuum of the adjacent wells to increase the LFG collection in the vicinity of each exceedance will be made and the location will be retested within ten calendar days of the initial exceedance;
- If retesting of the location shows a second exceedance, additional corrective action(s) will be taken and the location will be monitored again within ten days of the second exceedance;

- Any location that initially showed an exceedance but has a methane concentration less than 500 ppm_v methane above background at the time of the ten-day retesting, will be retested one month from the initial exceedance. If the one-month retesting shows a concentration of less than 500 ppm_v above background, no further monitoring is required until the next quarterly monitoring period. If the one-month retesting shows an exceedance, corrective action will be taken and the location will be monitored within ten days of the second exceedance, or additional corrective actions (listed below) will be taken; and
- For any location where monitored methane concentrations equal or exceed 500 ppm_v above background three times within a quarterly period, corrective actions will be taken. Corrective actions will include a new well or other collection devices that will be installed within 120 days of the initial exceedance. An alternative remedy, if approved, may include upgrading the blower(s), header pipe(s), and/or control device(s).

1.3 Annual LFG Flare Visible Emission Testing and Reporting

For the flare, the following is to be completed:

- A. Prepare a notification letter for submittal by the County to the FDEP. Notification is required to be submitted 15 days before testing begins.
- B. Conduct a visible emissions test for each flare in accordance with the U.S. Environmental Protection Agency (USEPA) Method 22. The maximum allowable visible emissions may not exceed 20 percent.
- C. Prepare a test report summarizing the test requirements, conditions during the test, and test results. The report shall include the information required by Chapter 62-297, Florida Administrative Code (F.A.C.), and U.S. EPA Method 22. A draft of the report will be submitted to the County for review within 15 days of completion of the test. After review and approval by the County, the final report will be submitted to FDEP within 30 days of the test.

1.4 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 including the NSPS report utilizing an online database program.
 - ii. All wellhead monitoring data required under the NSPS shall be kept on file and stored/backed up off-site as part of the online database system. 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 the NSPS 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 with the NSPS requirements, 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. Any condensate management system monitoring data shall also be provided in the monthly report.

- v. The monthly report shall detail all work conducted and confirm the system is being maintained in compliance with the NSPS. Any corrections conducted on the system or required to be conducted shall be listed. The report shall include a narrative summary of any significant trends in the monitoring data and explanations of anomalous data. Recommendations shall also be provided regarding potential non-routine repairs that are anticipated.

B. Semi-Annual Reporting

This task addresses the semi-annual reports required by the facility's Title V Operation Permit and Solid Waste Long-Term Care Permit. These reports will be prepared for submittal by the following dates:

- 2023 Second Semi-Annual Report (July 1 through December 31, 2023): by January 30, 2024.
- 2024 First Semi-Annual Report (January 1 through June 30, 2024): by July 30, 2024.
 - 2023 Second Semi-Annual Methane Monitoring Report by January 31, 2024.
 - 2024 First Semi-Annual Methane Monitoring Report by July 31, 2024.

i. Semi-Annual NSPS Report

S2Li will prepare semi-annual reports required under 40 CFR 60.757(f) and (g), and will include the following information:

- Value and length of time for exceedance of applicable monitoring parameters.
- Description and duration of all periods when the control device was not operating for a period exceeding one hour and the length of time the control device was not in operation.
- List of periods when the collection system was not operating in excess of five days.
- Description and duration of all periods when the gas stream was diverted from the control device through the bypass line.
- The location of each exceedance of the 500 ppm_v volatile organic compounds (VOC) as methane surface-emission criteria.
- A diagram of the collection system showing all wells and collectors, including the areas excluded from collection and the areas into which the system is added in the future. This diagram will be provided by the County and include all new work that occurred during the reporting period.

ii. Semi-Annual SSM Report

S2Li will prepare semi-annual reports which will include the number of SSM events and whether or not SSM Plan procedures were followed. This information will be incorporated into the semi-annual NSPS report. Any changes required to be made to the SSM Plan are not included in this scope of services.

iii. Semi-Annual Statement of Compliance Form Submittal

S2Li will prepare and provide the Title V Statement of Compliance in draft form for County review on a semi-annual basis. After addressing any County-suggested improvements, the final form will be submitted to the County for signature by the County's Responsible Official. This information will be incorporated into the semi-annual NSPS report.

iv. NSPS Report Submittal

S2Li will provide one draft copy of the NSPS report for the County's review. Upon receipt of comments from the County, S2Li will submit one copy of the signed semi-annual reports to FDEP, and one copy for the County's files. Additionally, an electronic copy of the report will also be provided to each recipient.

v. Semi-Annual Methane Monitoring Reports

S2Li will utilize County equipment and test semi-annually for methane concentrations at twenty-nine 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. S2Li will prepare and submit a report of the testing results to FDEP semi-annually. 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.

C. Annual Reporting

1. GHG Reporting. West Nassau Landfill has been subject to the requirements of Title 40 of the Code of Federal Regulations (CFR), Part 98: Mandatory GHG Reporting because it emits GHG in amounts greater than 25,000 metric tons or more of carbon dioxide equivalent (MTCO₂e) per year. As a result, the County has been collecting data and submitting GHG emission reports every year before March 31st following the year of data collection. S2Li shall utilize the eGGRT reporting tool available online from the USEPA to report GHG emissions. S2Li shall respond to any questions from USEPA related to this submittal.

2. Annual Title V Operating Report Submission and Emissions Fee. S2Li shall prepare the required annual operating report for the West Nassau Landfill, and submit the report prior to April 1, 2024 for the reporting calendar year 2023. A draft of the report shall be submitted to the County for its review, any improvements implemented, and the final submitted electronically via the FDEP electronic annual operating report (EAOR) submittal process. S2Li shall respond to any questions from FDEP related to this submittal.

As part of the new process developed by the FDEP, the emissions fee will be calculated by FDEP's EAOR software at the time of submission of the annual operating report. S2Li shall provide the County with a copy of the fee invoice to be paid to FDEP at least three weeks prior to the April 1st deadline to assist in the payment of the fees. S2Li shall respond to any questions from FDEP related to this submittal.

3. Annual Title V Statement of Compliance. S2Li shall prepare the Statement of Compliance report and associated documentation and calculations demonstrating/documenting the site's compliance with its Title V permit during calendar year 2023. This report will be submitted prior to the April 1st deadline and will list any deviations from the regulatory requirements. The report and associated backup material shall be reviewed in draft form by County representatives, improvements implemented, and the final statement submitted to FDEP. S2Li shall respond to any questions from FDEP related to this submittal.

4. On-Line Data Management System. S2Li is to provide and maintain an online data management system. S2Li is to input data in the data management system collected during the services conducted under Task 1. County staff will be given access to the system. The County is paying for an annual license to be prorated in monthly payments. Should the County decide to cancel the license before the end of the fiscal year, the County will be required to pay the balance of the licensing costs.

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 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 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 of existing reports, preparation of new reports, addressing rule changes, etc. The total work effort is limited to the budget limit provided in this work authorization.

EXHIBIT B
Service Period Estimate
Fiscal Year 2024 (October 1, 2023 through September 30, 2024)
Operation, Monitoring, Maintenance, and Reporting
Landfill Gas Collection and Control System
 West Nassau Class I Landfill
 Nassau County, Florida

S2U No.: 23-1017
 Nassau County No.: CM2685-WA41

Total Project Costs
 S2U Fee Estimate

TASK	DESCRIPTION	LABOR CATEGORY AND RATE										TOTAL HOURS	SUBTOTAL LABOR	
		Project Dir./Principal	Regional Manager/QC Officer	Principal Engineer	Senior Engineer	Project Engineer	Associate Engineer/CADD	Field Technician	Office Manager					
1	Routine Operation, Monitoring, Adjustments, and Reporting	23	151	0	46	100	300	0	0	40	0	0	660	\$82,230.49
1.1	Blower/Flare Station (12 events)	0	24	0	0	12	12	0	0	0	0	0	48	\$7,639.56
1.2	LFG Extraction System (2/month; 24 events)	12	48	0	24	48	240	0	0	12	0	0	364	\$40,863.60
1.3	LFG Flare Emission Test and Reporting- Method 22 (1 event)	1	3	0	4	0	0	0	0	2	0	0	10	\$1,617.59
1.4	Reporting	6	48	0	12	24	36	0	0	12	0	0	138	\$20,229.60
1.4A	Monthly (12 events)	2	16	0	4	8	8	0	0	12	0	0	50	\$7,056.28
1.4B	Semi-Annual (2 events)	2	12	0	2	4	4	0	0	2	0	0	30	\$4,793.86
1.4C	Annual Title V Operating Report/GHG Report/SDC	2	24	0	6	36	96	0	0	1	0	0	165	\$17,622.06
2	Non-Routine Scheduled Maintenance	2	16	0	8	8	8	0	0	1	0	0	35	\$5,669.28
3	Non-Routine Unscheduled Emergency Services	0	8	0	8	0	4	0	0	2	0	0	22	\$5,404.04
4	Parts and Subcontractors for Non-Routine Services	1	12	0	6	0	0	0	0	2	0	0	21	\$4,012.02
5	Miscellaneous Services	28	211	0	66	144	408	0	0	46	0	0	903	\$112,937.89
SUBTOTALS:														

TASK	DESCRIPTION	LABOR CATEGORY AND RATE					SUBTOTAL EXPENSES
		Field Vehicle (\$110/day) (Attach. 2)	Lab Testing (est.)	Equipment Rental (est.) (Attachment 2)	Parts (est.) (Attachment 2)	Grove Scientific (est.) (Attachment 3)	
1	Routine Operation, Monitoring, Adjustments, and Reporting						
1.1	Blower/Flare Station (12 events)						\$ 9,022.76
1.2	LFG Extraction System (2/month; 24 events)	\$ 2,880.00					\$ 2,001.32
1.3	LFG Flare Emission Test and Reporting- Method 22 (1 event)						\$ 7,200.00
1.4	Reporting						\$ 13,246.76
1.4A	Monthly (12 events)						\$ 10,602.19
1.4B	Semi-Annual (2 event)						\$ 1,940.00
1.4C	Annual Title V Operating Report/GHG Report						\$ 12,240.00
2	Non-Routine Scheduled Maintenance	\$ 1,440.00					\$ 23,500.00
3	Non-Routine Unscheduled Emergency Services			\$ 3,600.00			\$ -
4	Parts and Subcontractors for Non-Routine Services						\$ -
5	Miscellaneous Services						\$ -
SUBTOTALS:		\$ 4,320.00	\$ -	\$ 3,600.00	\$ 7,100.00	\$ 31,993.03	\$ 79,753.03

COST SUMMARY				
TASK	DESCRIPTION	SUBTOTAL LABOR	SUBTOTAL EXPENSES	TASK TOTAL
1	Routine Operation, Monitoring, Adjustments, and Reporting	\$82,230.49	\$41,073.03	\$123,303.52
2	Non-Routine Scheduled Maintenance	\$17,622.06	\$1,940.00	\$19,562.06
3	Non-Routine Unscheduled Emergency Services	\$5,669.28	\$12,240.00	\$17,909.28
4	Parts and Subcontractors for Non-Routine Services	\$3,404.04	\$23,500.00	\$26,904.04
5	Miscellaneous Services	\$4,012.02	\$ -	\$4,012.02
TOTALS		\$112,937.89	\$79,753.03	\$192,690.92

Estimated Fee by Landfill for County Accounting Purpose:		
West Nassau Class I Lined Landfill (42 acre area):	77%	\$ 148,372.01
West Nassau Unlined Landfill (11 acre area):	23%	\$ 44,318.91
Total:	100%	\$ 192,690.92

Fiscal Year 2024 (October 1, 2023 through September 30, 2024)
Operation, Monitoring, Maintenance, and Reporting
Landfill Gas Collection and Control System

West Nassau Class I Landfill
 Nassau County, Florida

Attachment 2 - 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 Rental		\$ 300	per day	4	\$ 1,200					\$ 1,200		
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.	\$ 1,500	per event	1	\$ 1,500					\$ 1,500	\$ 2,550	
	- Field Removal and Install Costs	Sullivan or SZLI	\$ 1,275	per event	2	\$ 2,550					\$ -	\$ -	
5.	Flare Station Check/Maintenance												
a.	- UV Eye Cleaning and visual inspection	Rental - Manlift	\$ 900	per event	1	\$ 900					\$ 900		
	- Rental - Manlift Labor	Sullivan Envir.	\$ 2,100	per event	1	\$ 2,100					\$ -	\$ 2,100	
	- Mob/Demob	Sullivan Envir.	\$ 1,200	per event	1	\$ 1,200					\$ -	\$ 1,200	
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	\$ 200	
6.	Condensate Pump - Shop Cleaning/Repair	Sullivan	\$ 350	per event	1	\$ 350					\$ 350	\$ 350	
7.	GW-6 or 11 Type Repair	Sullivan Envir.											
a.	Parts	Isco	\$ 800	per event	2	\$ 1,600			\$ 1,600		\$ -	\$ -	
b.	Labor	Sullivan Envir.	\$ 1,020	per event	2	\$ 2,040				\$ 2,040	\$ -	\$ -	
8.	Sullivan Envir. Mob/Demob	Sullivan Envir.	\$ 1,800	per event	1	\$ 1,800				\$ 1,800	\$ -	\$ -	
9.	Emergency Subcontractor Services	Sullivan Envir.	\$ 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					\$ 27,740	\$ -	\$ -	\$ 1,600	\$ 8,140	\$ 3,600	\$ 14,400	
	Other												
1.	Truck Rental		\$ 120	per day	36	\$ 4,320		\$ 1,440					
2.	Ecotec Database	Ecotec	\$ 600	per month	12	\$ 7,200							
3.	Spare Parts												
a.	Parts - Miscellaneous		\$ 2,000	ea.	1	\$ 2,000					\$ 2,000	\$ 2,000	
b.	Parts - Wellheads		\$ 500	ea.	4	\$ 2,000					\$ 2,000	\$ 2,000	
	Total Parts		\$ 2,500			\$ 4,000	\$ -	\$ 500	\$ 500	\$ 2,000	\$ 4,000	\$ 1,000	
4.	Miscellaneous or Identifiable Costs					\$ 4,500					\$ 500	\$ 500	
	TOTAL					\$ 47,760	\$ 10,080	\$ 1,940	\$ 2,100	\$ 10,140	\$ 8,100	\$ 15,400	

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

\$ 10,080 \$ 1,940 \$ 12,240 \$ 23,500



ECOTEC Solutions, Inc.
850 S Via Lata, Suite 115
Colton, CA 92324
(909) 906-1001

Quote



0004298

QUOTE DATE: 7/19/2023

SALESPERSON: SW

CUSTOMER NUMBER: 20-5101680

QUOTE Expiration Date: 11/30/2023

SOLD TO:
S2L Incorporated
531 Versailles Drive
Suite 202
Maitland, FL 32751

SHIP TO:
S2L Incorporated
531 Versailles Drive
Suite 202
Maitland, FL 32751

Confirm To: Greg Brunson/Omar Smith
osmith@s2li.com

gbrunson@s2li.com

CUSTOMER PO#	SHIP VIA	F.O.B. Colton	TERMS NET 30		
ITEM	ORDERED	SHIPPED	BACKORDER	UNIT PRICE	EXTENSION
S2LI No.: to be determined Nassau County No.: to be determined					
/SW-SUB-ANNUAL					7,200.00
Software Subscription Annual					
Envirocomp Services from October 1, 2023 - September 30, 2024					
West Nassua Landfill					

Thank you for your business!

TERMS: · Signature below acknowledges acceptance of ECOTEC's Standards Terms & Conditions. · Net 30 Days; Past 30 Days 1.5% per month interest. · FOB Shipping Dock unless otherwise noted. · This quote is valid for 30 days from date of issue. · All Payments will be paid in U.S. Currency. · Applicable sales tax and shipping & handling charges will be added to invoice. · To place this order: Please Sign, Date, Include your Purchase Order Number and Return via Fax or Email.

Net Order:	7,200.00
Less Discount:	0.00
Estimated Freight:	TBD
Sales Tax:	0.00

Signature: _____ Date: _____ Purchase Order # _____