

**WORK AUTHORIZATION # CM2685-WA19  
 NASSAU COUNTY BOARD OF COUNTY COMMISSIONERS  
 CONTINUING CONTRACT FOR PROFESSIONAL ENGINEERING SERVICES  
 SOLID WASTE LANDFILLS AND OTHER RELATED ANCILLARY FACILITIES  
 FOR NASSAU COUNTY, FLORIDA  
 RFQ/BID NO. NC19-001**

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

CURRENT WORK AUTHORIZATION			
Project Short Title: Landfill Gas Sample Collection and Testing & Tier 2 Calculation Services at the West Nassau Landfill			
		CONTRACT OVERVIEW	
		<b>Total of Previous Authorizations</b>	\$930,564.10
<b>Date Submitted</b>	7/21/20	<b>Adjustments/Change Orders</b>	\$0
<b>Amount</b>	\$11,187.70	<b>This Work Authorization</b>	\$11,187.70
<b>Scheduled Completion</b>	90 days from NTP	<b>Current Contract Total</b>	\$941,751.80

This Work Authorization is to the CONTRACT between Nassau County and the Consultant known as 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 Authorization provides for the services required to collect and test three (3) landfill gas samples from the West Nassau Landfill. Under the scope of services for this Work Authorization, S2L, Incorporated (S2Li) and its subconsultant, Grove Scientific and Engineering (Grove) (collectively known as the “S2Li Team”) will perform the following further described in Attachment “A”, attached hereto and incorporated herein.

- **Conduct sampling in compliance with Tier 2 protocol, to determine the NMOC emissions**
- **Conduct landfill gas sampling in triplicate from flare station before the condensate knock out and fan**
- **Send landfill gas samples to the lab for analysis**
- **Determine updated NMOC site-specific concentration and recalculate the NMOC emission rate using the procedures outlined in 40 CFR Part 60.754(a)(3)**
- **Prepare a letter summarizing the emission rate and recommendations based on the results of the emission rate**

ARTICLE 2. Time Schedule

The total expected time period for this work authorization is 120 days from the notice to proceed.

ARTICLE 3. Budget

The cost estimate to perform the work as described in the Scope of Services is \$11,187.70. A detailed breakdown for each task in conjunction with the estimated labor hours, contract labor rates, and expenses are attached as Exhibit 1. Costs incurred will be invoiced on a time and material basis. The County will be notified when the overall project budget is nearing its limit.

ARTICLE 4. Other Provisions

The Services covered by this Work Authorization will be performed in accordance with the provisions set forth in the CONTRACT 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 CONTRACT when executed by both parties.

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In presenting this Work Authorization, Consultant agrees that:

Unless detailed herein, all drawings, data, electronic files and other information required for this Work Authorization has been accepted by Consultant. 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: \_\_\_\_\_  
Print Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

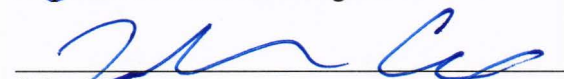
Account No.: 01361534-531000 \$2,573.17  
01362534-531000 \$8,614.53

**RECOMMENDED AND APPROVED BY NASSAU COUNTY:**

Public Works:

  
\_\_\_\_\_  
Department Head or Designee

Contract Management:

  
\_\_\_\_\_  
John Cox

ARTICLE 2. Time Schedule

The total expected time period for this work authorization is 120 days from the notice to proceed.

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ARTICLE 4. Other Provisions

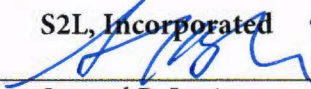
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Unless detailed herein, all drawings, data, electronic files and other information required for this Work Authorization has been accepted by Consultant. Specifically, all electronic files have been reviewed and accepted for the purposes of this Work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

AGREED TO BY:

**S2L, Incorporated**  
BY:   
Print Name: Samuel B. Levin  
Title: President  
Date: September 17, 2020


Account No.: 01361534-531000 \$2,573.17  
01362534-531000 \$8,614.53

**RECOMMENDED AND APPROVED BY NASSAU COUNTY:**

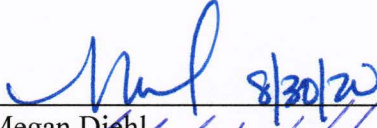
Public Works:

  
Department Head or Designee

Contract Management:

  
John Cox

Office of Management & Budget:

  
Megan Diehl

County Manager:

  
Michael S. Mullin

Ex-Officio Clerk:

N/A  
John Crawford

County Attorney:

  
Michael S. Mullin

APPROVED by the County Manager, Designee for NASSAU COUNTY BOARD OF COUNTY COMMISSIONERS, the 8 day of September, 2020.

**Attachment “A”**

**Scope of Services**

**Landfill Gas Sample Collection and Testing**

**and**

**Tier 2 Calculation Services**

**at the**

**West Nassau Landfill**

**County Contract Number: CM2685-WA19**  
**S2Li Project Number: 20-892**

**BACKGROUND**

Nassau County operates and maintains a Landfill Gas Collection and Control System (LFGCCS) at its West Nassau Landfill to comply with Federal Title V air regulations and New Source Performance Standards (NSPS) operating and reporting standards. These rules allow the County to seek relief from these air emission requirements upon meeting certain conditions. Unfortunately, the required protocol approval process and associated testing (known as Tier 2 testing) to meet those conditions could take up to two years, and it is possible that the results of Tier 2 testing will not support relief from the NSPS requirements. Therefore, before initiating Tier 2 testing, the County wants to collect and test landfill gas samples. Testing of the landfill gas samples will enable the calculation of non-methane organic compound (NMOC) emissions. If the updated NMOC emission rate is calculated to be below 50 Mg per year, the landfill may consider implementing the Tier 2 process, with the goal of eliminating the need for future compliance with operating and reporting obligations mandated by NSPS.

It should be noted that the cessation of the LFGCCS operation and compliance with NSPS operating parameters does not mean the end of the flare station operation, greenhouse gas (GHG) reporting requirements, odor control requirements, or landfill gas migration monitoring. Landfill gas will continue to be generated at the landfill for an extended period of time and the County will need to continue to operate a collection system to ensure odor control, liner, and cover integrity, and to reduce potential impact to groundwater resources. However, the financial benefits associated with the elimination of NSPS operations and reporting requirements alone are significant.

This Work Authorization provides for the services required to collect and test three (3) landfill gas samples from the West Nassau Landfill. Under the scope of services for this Work Authorization, S2L, Incorporated (S2Li) and its subconsultant, Grove Scientific and Engineering (Grove) (collectively known as the “S2Li Team”) will perform the following:

- Conduct sampling in compliance with Tier 2 protocol, to determine the NMOC emissions.
- Conduct landfill gas sampling in triplicate from flare station before the condensate knock out and fan.
- Send landfill gas samples to the lab for analysis.

- Determine updated NMOC site-specific concentration and recalculate the NMOC emission rate using the procedures outlined in 40 CFR Part 60.754(a)(3).
- Prepare a letter summarizing the emission rate and recommendations based on the results of the emission rate.

#### **SCHEDULE**

The total expected time period for this work authorization is 120 days from the notice to proceed.

#### **SCOPE OF SERVICES - COUNTY ASSUMPTIONS**

It has been assumed that the County will perform, provide, or make available the following:

- Access into the Landfill;
- Assistance with the technicians in collecting the samples.

#### **COST ESTIMATE**

The cost estimate to conduct the Work as described in the above-listed Scope of Services is **\$11,187.70**. A detailed breakdown for each task in conjunction with the estimated labor hours, contract labor rates, and expenses are included in the attached Exhibit 1 for the S2Li Team. Costs incurred will be invoiced on a time and material basis. The County will be notified when the overall project budget is nearing its limit.

H:\PROPOSALS AND MISC CORRESPONDENCE\Wassau County\West Nassau LFG Sampling and Testing - Tier 2 Calculation Services\S2Li\_West Nassau LFG Sampling and Testing Services\_Draft\_WA19.sbl.docx

July 23, 2020  
 Total Project Costs  
 S2Li Fee Estimate

EXHIBIT 1

S2Li No. 20-892  
 County No. CM2685-WA19

**Landfill Gas Sample Collection and Testing  
 and Tier 2 Calculation Services  
 West Nassau Landfill  
 Nassau County, Florida**

LABOR		LABOR CATEGORY AND RATE								TOTAL HOURS	SUBTOTAL LABOR
		Project Dir./ Principal \$250.00	Regional Manager/ QC Officer \$232.25	Principal Engineer \$190.26	Senior Engineer \$137.09	Project Engineer \$97.92	Associate Engineer/CADD \$72.21	Field Technician \$52.38	Office Manager \$76.24		
TASK	DESCRIPTION										
	LFG Sample Collection and Testing, Tier 2 Calculations	4	16	0	8	4	0	0	4	36	\$ 6,509.36
	SUBTOTALS:	4	16	0	8	4	0	0	4	36	\$ 6,509.36

EXPENSES		Field Vehicle (\$100/day)	Lab Testing (est.)	Equipment Rental (est.)	Parts (est.)	Surveyor (est)		The Colinas Group (see attached)			SUBTOTAL EXPENSES
TASK	DESCRIPTION										
	LFG Sample Collection and Testing, Tier 2 Calculations	\$ -	\$ -	\$ -			\$ -	\$ 4,678.34	\$ -		\$ 4,678.34
	SUBTOTALS:	\$ -	\$ -	\$ -	\$ -		\$ -	\$ 4,678.34	\$ -	\$ -	\$ 4,678.34

Estimated Fee By Landfill for County Accounting Purposes:

West Nassau Landfill 42 acres Lined	\$	8,614.53
West Nassau Landfill 11 acres Unlined	\$	2,573.17
	\$	11,187.70

COST SUMMARY				
TASK	DESCRIPTION	SUBTOTAL S2Li LABOR	SUBTOTAL EXPENSES including Subconsultants	TASK TOTAL
	LFG Sample Collection and Testing, Tier 2 Calculations	\$ 6,509.36	\$ 4,678.34	\$ 11,187.70
	<b>TOTALS</b>	<b>\$ 6,509.36</b>	<b>\$ 4,678.34</b>	<b>\$ 11,187.70</b>

July 23, 2020

Attachment - Grove Fee Estimate - Subconsultant

**Landfill Gas Sample Collection and Testing**  
**West Nassau Landfill**  
**Nassau County, Florida**

S2Li No. 20-892  
 County No. CM2685-WA19

LABOR		LABOR CATEGORY AND RATE										TOTAL HOURS	SUBTOTAL LABOR	
		Principal Consultant	Senior Scientist \$126.57	Environmental Scientist \$84.38	Field Technician	Draftperson/CAD	Clerk/Word Process.							
TASK	DESCRIPTION													
	LFG Sample Collection and Testing, Tier 2 Calculations	0	10	28	0	0	0	0	0	0	0	0	38	\$ 3,628.34
	SUBTOTALS:	0	10	28	0	0	0	0	0	0	0	0	38	\$ 3,628.34

EXPENSES		Field Vehicle (\$100/day)	Lab Testing (est.)	Equipment Rental (est.)	Parts (est.)		Subcontractors (est.) lab							SUBTOTAL EXPENSES
TASK	DESCRIPTION													
	LFG Sample Collection and Testing, Tier 2 Calculations	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,050.00	\$ -						\$ 1,050.00
	SUBTOTALS:	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,050.00	\$ -						\$ 1,050.00

<b>TOTAL</b>													<b>\$4,678.34</b>
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July 22, 2020



Mr. Omar E. Smithy, P.E.  
S2Li  
531 Versailles Drive, Suite 202  
Maitland, FL 32751

**RE: West Nassau Landfill  
Tier 2 Sampling**

Dear Omar:

We have prepared this proposal for conducting Tier 2 sampling at the West Nassau Landfill. The scope of work and price are outlined below;

#### **SCOPE OF SERVICES**

**TASK 1 – Conduct Tier 2 sampling to determine the non-methane organic compound (NMOC) emissions;**

We propose the following;

- Conduct landfill gas sampling in triplicate from flare station before the condensate knock out and fan.
- Send landfill gas samples to lab for analysis.
- Determine updated NMOC site-specific concentration and recalculate the NMOC emission rate using the procedures outlined in 40 CFR Part 60.754(a)(3). Prepare a letter summarizing the emission rate and recommendations based on the results of the emission rate.

### Cost Task 1


Labor Description	Hourly Rate (\$)	Hours	Total (\$)
Senior Scientist/Principal	126.57	10	1,265.70
Environmental Scientist	84.38	28	2,362.64
Laboratory Analysis Costs & Rental Equipment	3 samples for analysis	n/a	1,050.00
<b>Total</b>	n/a	n/a	<b>4,678.34</b>

### Other Considerations

If the updated NMOC emission rate is below 50 Mg per year, the landfill may consider beginning the process to get out of the New Source Performance Standards (NSPS) reporting obligations; however the landfill gas collection system will likely need to remain active and properly maintained to ensure the landfill continues to meet their obligation of odor control, control landfill gas from leaving the property and maintaining the integrity of the geomembrane liner. This will be addressed in more detail once we have the results of the sampling.

Please let me know if you have any questions regarding this quote.

Sincerely,  
Grove Scientific & Engineering Company



Sara Greivell  
President



## Attachment "B"

**Proposed Loaded Billing Rates for 2019/2020 for  
Services Provided by S2Li on Behalf of Nassau County**

<b>Contract Position</b>	<b>Hourly Rates</b>
Project Director/Principal-in-Charge	\$250.00
Regional Manager/QC Officer	\$232.25
Principal Engineer	\$190.26
Senior Engineer	\$137.09
Project Engineer	\$ 97.92
Associate Engineer/CADD	\$ 74.21
Field Technician	\$ 52.38
Office Manager	\$ 76.24

1. Billing rate based on applying a 10% profit to S2Li's breakeven multiplier. Project Director was capped at \$250.00 per hour.
2. Rates include typical expenses such as reproduction, travel costs (except for field vehicle), lodging, and printing. Any other extraordinary direct expenses shall be negotiated on a case by case basis and will be identified in the Work proposal.
3. Subconsultant costs and parts purchased on the County's behalf will be billed as pass-through costs with no profit or markup added by S2Li in addition to actual costs.
4. Field vehicle (truck) will be billed at \$100/day.

## Fee Quotation Proposal

Re: Nassua County Bid #NC19-001

As requested, the following is our information regarding overhead multipliers and personnel hourly rates for projects with Nassua County. These are the determined rates for Grove Scientific & Engineering Company that is standard proposals for any and all government entities:

### RATE SCHEDULE

<u>LABOR</u>	<u>BILLABLE</u>
Senior Scientist/Principal	\$126.57
Senior Engineer/Professional Engineer	\$225.00
Professional Geologist	\$57.92
Environmental Scientist	\$84.38
Environmental Specialist	\$70.38
Paraprofessional	\$59.67
Technician	\$35.10

Rates include all direct costs.

Under penalty of perjury, I declare that I have read the foregoing and the facts stated in it are true. False statements may result in criminal prosecution for a felony of the third degree as provided for in Section 92.525(3), Florida Statutes.

Sara Greivell, CEO

Printed Name and Title

Grove Scientific & Engineering Company

Sara Greivell

Signature

4/4/2019

Date

Initials

SG