WORK AUTHORIZATION # CM2096-WA08 NASSAU COUNTY BOARD OF COUNTY COMMISSIONERS RFQ/BID NO. NC13-033

Consultant:	S2L, Incorporated	
Contract Number:	CM2096	
Contact Name:	Sam Levin, P.E.	
Contact Number:	407-475-9163	
Email:	Slevin@s2Li.com	

	CURRENT	WORK AUTHORIZATION							
Project Short Title: Pro Nassau Class 1 Landfill	*	it Application for Long-Term Care Renev	val for the West						
CONTRACT OVERVIEW									
2-10		Total of Previous Authorizations	\$368,698.43						
Date Submitted	02-23-15	Adjustments/Change Orders	\$13,682.18						
Amount	\$77,546.42	This Work Authorization	\$77,546.42						
Scheduled Completion	9 months	Current Contract Total	\$459,927.03						

This Work Authorization is to the AGREEMENT 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 April 16, 2014. The services to be provided under this Work Authorization are as follows:

ARTICLE 1. Services Described as:

S2Li will provide engineering consulting services for the preparation of a permit application for long-term care renewal for the West Nassau Class 1 Landfill, in accordance with the scope of services, attached hereto as Attachment "A".

ARTICLE 2. Time Schedule

S2Li shall perform the services in accordance with the schedule provided with the scope of services, attached hereto as Attachment "A".

ARTICLE 3. Budget

The cost estimate to conduct the Work as described in the Scope of Services is \$77,546.42. A detailed breakdown for each tasks with the estimated labor hours and expense are included in the Exhibit 1 of Attachment "A". Costs incurred will be invoiced on a time and material basis.

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.

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: Samue Presi Title: Date: 3 -

RECOMMENDED AND APPROVED BY NASSAU COUNTY:

Director of Public Works:

Board of County Commissioners, Chair:

Ex-Officio Clerk:

County Attorney:

APPROVED by the BOARD OF COUNTY COMMISSIONERS, the 18thday of _____, 2015

ACCOUNT NO.:

ATTEST AS TO CHAIRMAN'S SIGNATURE ONLY

Preparation of a Permit Application for Long-Term Care Renewal

for the West Nassau Class I Landfill

County Contract Number: CM2096-WA08 S2Li Project Number: 15-581

BACKGROUND

In 2010, Nassau County ("County") obtained a closure permit (Permit No. 0002870-014-SF) that provided for the closure and long-term care after closure of the West Nassau Class I Landfill ("Landfill" consisting of both the old closed 11 acre and the lined 42 acre areas). In March 2013, the County received closure certification from the Florida Department of Environmental Protection ("FDEP" or "Department") and the Landfill entered into long-term care ("LTC"). The duration of LTC is 20 years for the old closed 11 acre area and 30 years for the 42 acre lined area. During these LTC periods, the County has been:

- conducting water quality testing and reporting;
- operating/maintaining an active landfill gas collection system and flare station facility;
- conducting landfill gas measurements to remain in compliance with New Source Performance Standards (NSPS) operating parameters;
- conducting inward gradient elevation measurements for the monitoring of two slurry wall systems;
- operating and maintaining a leachate collection and pumping system;
- collecting, storing, and hauling out leachate for disposal;
- maintaining a stormwater management system;
- mowing the surface of the landfill property;
- maintaining a vegetative cover and soil and erosion control; and
- continuing other miscellaneous operational and maintenance items required for a closed facility.

The existing closure permit for the Landfill is scheduled to expire on September 13, 2015. The existing permit requires that a renewal application to continue LTC be submitted to FDEP by July 16, 2015. However, at a December 16, 2014 meeting, FDEP requested that a draft application be submitted to them by June 1, 2015. For the Landfill LTC permit renewal, an application in accordance with Rule 62-701.620, and with limitations and as directed by FDEP at the December 16th meeting is to address the following:

- Application Fee (to be provided by the County) normally \$2,000 for a 10-year term but may be waived by the Department.
- Application Form, limited to Parts A, B, L, N, Q, R, , and S;
- Stabilization Report;
- Water Quality Technical Report and any Water Quality Monitoring Plan changes;
- Updated Annual Post-Closure Care Cost Estimates and FDEP Financial Assurance Forms;
- Updated Long-Term Care and Operations Plan;

- Information related to shutting down of the Recovery Well System serving the southern portion
 of the landfill; and
- Any other information as proposed by the County.

SCOPE OF SERVICES

Task 1: Pre-Application Meeting with FDEP

S2L, Incorporated (S2Li) will prepare for and attend a meeting with County staff, The Colinas Group ("TCG") (S2Li's hydrogeological subconsultant), and FDEP in the Northeast District office of FDEP in Jacksonville. Preparation for the meeting will include:

- development of proposed modifications to the existing water quality monitoring plan by subconsultant TCG;
- development of proposed future inward gradient elevation measurement requirements at the two slurry walls;
- preparation of County-proposed specific conditions;
- preparation of a list of questions to be submitted prior to the meeting for FDEP to be answered at the time of the meeting; and
- preparation of a meeting agenda.

The S2Li Team will provide the County with the items developed during preparation for the preapplication in draft form for County review and comment. The S2Li Team shall meet with County representatives prior to the pre-application meeting to review the items to be addressed, and the approaches to be utilized in discussions with FDEP.

S2Li and TCG will attend the pre-application meeting with County representatives and review requirements for renewal, water quality testing, inward gradient measurement, permit renewal schedule, and other pertinent information (e.g. financial assurance, application fee, long-term care plan, leachate management, and landfill gas management) with FDEP representatives.

Deliverable: Proposed water quality monitoring plan amendments, proposed specific conditions, and questions for FDEP and Agenda for FDEP Meeting.

Task 2: Preparation of Application Form

S2Li Team will prepare a Solid Waste Permit Application Form (FDEP Form 62-701.900(1) dated 08-12-12 or later) of Chapter 62-701, Florida Administrative Code (F.A.C.) for the continued post-closure operation of the landfill. Parts A, B, L, and N through S are normally addressed for the renewal of LTC permits; however, FDEP stated that the County only needs to address Parts A, B, L, N, Q, R, and S along with preparing a new annual cost estimate for LTC as part of an updated financial assurance form and updating the long-term care plan. All sections FDEP stated that do not need to be addressed will be left blank with the heading of the Section entitled "Not Applicable".

The form will include the following sections from the rules:

1) Part A - General Information

Appropriate data for these sections of the permit application will be typewritten on the appropriate electronic application form.

2) Part B - Disposal Facility General Information

Appropriate data for these sections of the permit application will be typewritten on the appropriate electronic application form based upon information from the previous application. The information in this section is to identify the type of facility and existing components that continue to operate during the long-term care period.

3) Part L - Water Quality and Leachate Monitoring Requirements (62-701.510, F.A.C.)

Applicable water quality items addressed in this section will refer to the information prepared in the appropriate sections of the Technical Report, which is a part of the Stabilization Report to be provided as an Appendix to the application. This section will address the following:

- a. Modification of the facility zone of discharge boundary along the southern margin of the landfill;
- Modification of the landfill active monitoring well array to delete existing detection wells serving the southern lined-portion of the landfill from routine water quality sampling, and;
- c. Modification to the current sampling schedule to eliminate quarterly sampling frequency for wells in the southern portion of the landfill as part of Evaluation Monitoring actions ordered by the Department.

4) Part N - Gas Management System (62-701.530, F.A.C.)

The Gas Management System will be discussed related to the current NSPS operational requirements under the County's Title V permit and in the Stabilization Report provided as an Appendix to the application. It is assumed that the Gas Management System discussion will be limited to the existing active gas system to manage landfill gas.

5) Part O - Landfill Final Closure Requirements (62-701.600, F.A.C.)

Does not need to be addressed in the form per FDEP instructions. This Part will be left blank.

6) Part P - Other Closure Procedures (62-701.610, F.A.C.)

Does not need to be addressed in the form per FDEP instructions. This Part will be left blank.

7) Part Q – Long-Term Care (62-701.620, F.A.C.)

A long-term care plan shall be updated and provided as an Appendix to the Application. All other portions of this section will be marked as "No Substantial Change".

8) Part R - Financial Responsibility Requirements (62-701.630, F.A.C.)

A new annual and total cost estimate for a third party to provide LTC at the facility will be prepared on FDEP financial assurance forms. All other portions of this section will be marked as "No Substantial Change".

9) Part S - Certification by Applicant and Engineer or Public Officer

S2Li will include this executed form within the permit application report. It is assumed that J. Scott Herring, Nassau County Public Works Director, is to provide his original signature on behalf of the County.

Deliverable: Application Form

Task 3: Preparation of Report Sections and Reports

S2Li will prepare the Report section of the application that will address the following:

- 1) <u>Discussion of Information Addressed in the Application Form</u>. A narrative will be provided in this section that discusses the applicable sections of the permit application form.
- 2) <u>Water Quality Technical Report</u>. The Technical Report will present and evaluate semi-annual and quarterly groundwater and surface water monitoring data collected at the landfill over the 2½-year period of record extending from June 2012 through December 2014. A concise Executive Summary of findings, conclusions and recommendations for permit modifications derived from the water quality monitoring evaluation will be presented in the Technical Report.

The S2Li Team will prepare an update to the facility's most recent well inventory to identify existing and new public and private water wells within a one-mile radius of the landfill waste storage and disposal areas. The well inventory will include, where available, well construction, ownership and usage information as required by Rule 62-701.410(1)(b), F.A.C. TCG will prepare a map showing locations of identified vicinity water wells, including potable wells located with 500 feet of landfill waste storage and disposal areas as required by rule 62-701.410(1)(d), F.A.C. The Well Inventory Update will be included as a separate section in the Technical Report.

- 3) Landfill Stabilization Report. A report will be prepared to assess landfill stability, in accordance with Rule 62-701.620 (1). The following criteria will be addressed in the report:
 - a. Water quality conditions;
 - b. Landfill gas generation, emission, and migration;
 - c. Landfill surface subsidence activity;
 - d. Condition of vegetative cover related to soil and erosion control; and
 - e. Storm water management system function.
- 4) <u>Financial Assurance</u>. New long-term care cost estimates shall be prepared for the Landfill on DEP Form No. 62-701.900(28), F.A.C. using current third party costs in accordance with Rule 62-701.630, F.A.C. These estimates will be prepared in separate documents for both the 11 acre "old" area and the 42 acre lined area since the areas have differing long-term care term periods.

- 5) Long-Term Care and Operations Plan. A long-term care and operations plan, including inspection forms, will be prepared to comply with current applicable rules and incorporated items from the long-term care plan, the closure permit application's Closure Operations Plan, and other applicable operating items.
- 6) <u>Requested Changes to the Current Permit Specific Conditions and other Recommendations</u>. S2Li Team will prepare and summarize a list of requested changes to the current permit, any changes to the Water Quality Monitoring Plan, long-term recommendations for the slurry wall monitoring southern portion of the landfill, and other recommendations from the reports developed in this Task for consideration by FDEP as part of the application process, including the pre-application meeting.

Task 4: Application Package Preparation and Submittals to FDEP

- 1) <u>Draft Document Preparation</u>. S2Li will prepare the long-term care-only landfill permit renewal application package for the site. The application document will be provided in digital form and will contain the following information prepared under this and other scope of services:
 - Cover
 - Transmittal Letter and Discussion
 - Table of Contents
 - Application Form
 - Engineering Report
 - Appendices
 - Stabilization Report
 - Water Quality Technical Report
 - Financial Assurance Forms
 - Long-Term Care and Operations Plan
 - Leachate Collection system cleaning and storage tank inspection reports
- 2) <u>County Review</u>. S2Li will prepare and submit to the County, a draft application for review and comment. S2Li will meet via conference call with the County as needed to discuss any staff comments. S2Li will incorporate final comments received from the County associated with S2Li's scope of services then will prepare an updated draft for submittal to FDEP.
- 3) <u>FDEP Submittal Draft Application</u>. After incorporating any County comments, the updated draft will be submitted to FDEP as per their request, prior to June 1, 2015 for their review and comment. It is anticipated that the Department will contact the County and/or the S2Li Team to discuss the County's requested permit changes and information submitted in the draft application, and then submit any alternative (or counter) draft language for review and comment from the County.
- 4) <u>FDEP Submittal Final Application</u>. Once the revised specific condition language and additional information requested by FDEP has been provided, FDEP will ask the County to incorporate the Department's requested changes into the draft application, then finalize and submit the signed and sealed application to the Department. After addressing any FDEP comments within the draft response, S2Li shall submit one (1) signed and sealed digital copy of the permit application to FDEP (Northeast District and Tallahassee) and three (3) paper copies and a digital copy of the

application to the County. It is anticipated that the Department will quickly process the application request and issue the permit.

Deliverables: Draft Permit Application Documents, Final Permit Application Document,

Task 5: FDEP's Requests for Additional Information (RAI's)

Should any questions or minor requested changes be received from FDEP whether it is a part of the review of the draft or final permit applications, the S2Li Team, with the assistance of the County, will prepare responses within the required time period. S2Li Team shall join with the County in meeting with FDEP staff, should such a meeting become necessary, to answer any questions associated with the permit renewal. The County understands that the level of effort for RAI response cannot be determined beforehand, and that the budget for Task 5 is based on an educated guess of the level of effort that will be required. The level of effort to be expended for this task is limited to the fee estimate for this task. If additional investigations, analyses, testing, design, or research are required to provide satisfactory responses to the regulatory agencies, beyond the fee estimate of this Task 5, S2Li Team will perform the additional work effort only after receipt of written approval from the County. The S2Li Team will review the new permit and related specific conditions from FDEP and provide any comments to the County.

Deliverables: Formal and informal RAI responses and review of final permit.

SCHEDULE

- A draft permit application document is to be submitted to County staff for review by May 15, 2015. The County is expected to provide comments to S2Li within a week after receiving the draft application;
- After addressing and incorporating County staff comments, the draft permit application document is to be submitted to FDEP by June 1, 2015;
- Assuming timely comments from FDEP, the final version of the permit application is to be submitted to FDEP by July 16, 2015; and
- Total expected time period for this work authorization is nine months which includes time for the County to receive and S2Li to review and finalize the permit by September 2015.

SCOPE OF SERVICES - COUNTY ASSUMPTIONS

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

- Permit application fee if not completely waived;
- Previous water quality results information provided by the County's outside laboratory and technical reports from other consultants;
- Leachate collection pipe cleaning reports if not previously received;
- Leachate Tank inspection report if not previously received;
- Leachate disposal agreement;
- Leachate disposal quantities if not previously received;
- Legal property boundaries for the West Nassau Landfill and adjacent properties;
- Any requested changes to the existing permit's specific conditions, and
- Review and provide comments to the draft permit applications and final permit.

Some of the information may have already been received, so the S2Li Team will work with County staff to ensure that S2Li has received all of the information.

COST ESTIMATE

The cost estimate to conduct the Work as described in the above listed Scope of Services is \$77,546.42. 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.

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TASK	DESCRIPTION	SUBTOTAL SZLJ LABOR	SUBTOTAL EXPENSES including Subconsultants	TASK TOTAL
1	Meeting with FDEP	\$ 4,708.68	\$ 2,800.00	\$ 7,508.68
2	Preparation of Application Form	\$ 3,704.00	\$ 3,765.40	\$ 7,470.40
3	Preparation of Report Sections and Reports	\$ 34,190.82	\$ 12,581.20	\$ 46,772.02
4	Application Package Preparation and Submittals to FDEP	\$ 9,979.04	\$ 1,748.20	\$ 11,727.24
5	FDEP RAIs and Questions	\$ 2,394.88	\$ 1,673.20	\$ 4,068.08
ħ	STALS	\$ 54,977.42	\$ 22,569.00	<u>\$ 77,546.42</u>

February 12, 2015

Preparation of a Permit Application for Long Term Care Renewal West Nassau Class I Landfill Nassau County, Florida

S2Li No. 15-581 County No. CM2096-WA08

LABOR				LABOR CATEGORY AND RATE									
		Principal Consultant	Senior Hydrogeoligat	Staff Hydrologist	Env. Field Technican	Draftperson/ CAD	Clark/ Word Process.					TOTAL NOURS	SUBTOTAL LABOR
TASK	DESCRIPTION	\$145.60	\$117.60	\$86.20	\$84.15	\$60.00	\$37,50		ļ				
1	Meeting with FDEP	16	4	0	0	0	0	0	0	0	0	20	\$2,800.00
	Meeting with County Staff	8	4			1	1				l	12	\$1,635.20
	- Prepare for and attend Meeting with FDEP	8	0					ļ	ļ	ļ	ļ	8	\$1,164.80
	Preparation of Application Form	8	16	L		12			Į	ļ		36	\$3,766.40
	Preparation of Report Sections and Reports	16	40	45	0	16	12	0	0	0		132	\$12,581.20
	- Application Section Discussion			1						l		0	
	- Water Quality Technical Report	16	40	48		16	12					132	\$12,581.20
	- Landfill Stabilization Report						ļ					0	\$0.00
	- Financial Assurance Cost Estimates			1								0	\$0.00
1	- Long Term Care and Operations Plan	[í		1	1	(í		[0	
	- Requested Changes to the Current Permit Requirements	0	O	0	0	0	0	0	0	0	0	0	\$0.00
4	Application Package Preparation and Submittals to FDEP	4	8	0		0	6	0	0	0	0	18	\$1,748.20
	- Draft Document Preparation			Ì			2		1		1	2	
	- County Review of Draft Application	2	4					1			í	6	
	- FDEP Submittal - Draft Application	2	4				2			1		8	
	- FDEP Submittal - Final Application						2			1		2	
\$	FDEP RAIs and Questions	4	8	0	0	0	4					16	\$1,673.20
	SUBTOTALS:	48	76	48	0	28	22	0	0	0	0	222	\$ 22,569.00
		Field	Lab	Équipment	Parts		1	Subcan	1	T	<u> </u>	<u> </u>	
EXPENSE	ES	Vehicle (590/day)	Texting (est.)	Rentel (est.)	(est.)			tractors (est.)	1		1		SUBTOTAL EXPENSES
TASK	DESCRIPTION	()()()	(,	(1	
1	Meeting with FDEP	s .	s .	s .	s .	ls -	s .	5 .	1				e .
	Preparation of Application Form	s .	s .		s .	s .	s.	s .	[1	[•	
	Preparation of Report Sections and Reports	s .	s .	s .	s .	s .	s -	s .		1	1	ļ	
	Application Package Preparation and Submittals to FDEP	\$.	s .	s .	s .	5 -	s -	5 -	1	1	1		
	FDEP RAIs and Questions	s .	s -	s .	s .	5 .	s .	s -	1	1	1		
	SUBTOTALS:	s -	s .	5 .	\$.	5	5 -	+	+	<u> </u>	+	{	s -
	308(01AL);	· · ·	· ·	, ·	, .		, .	ş -					
το											тот	AL	\$22,569.00

Attachment - The Colinas Group Fee Estimate - Subconsultant

NASSAU COUNTY CONTRACT MANAGEMENT

CONTINUTING CONTRACT FOR PROFESSIONAL ENGINEERING SERVICES - SOLID WASTE LANDFILLS AND OTHER RELATED ANCILARY FACILITIES S2L, INCORPORATED CONTRACT NO. CM2096

WA#			IGINAL FEE	CHANGE ORDERS			NTRACT FEE	STATUS	ACTUAL COST	DIFF	ERENTIAL
	Operation, Monitoring, Maintenance and										
	Reporting for the Landfill Gas Collection										
	and Control System at the West Nassau										
01	Class Landfill	\$	101,250.04	\$	-	\$	101,250.04	Complete	\$ 100,922.38	\$	(327.66)
	Preparation of a Title V Air Permit										· · · · · · · · · · · · · · · · · · ·
	Renewal Application for the West Nassau										
02	Class Landfill	\$	20,399.06	\$	-	\$	20,399.06	In progress	\$ 20,399.06	\$	-
	Preparation of a 2014 Landfill Financial										
03	Assurance Report	\$	15,906.20	\$		\$	15,906.20	In progress	\$ 15,906.20	\$	
	Preparation of an Inward Gradint Analysis										
	and Meeting with FDEP for the West										
04	Nassau Class I Landfill	\$	24,329.98	\$	14,009.84	\$	38,339.82	In progress	\$ 38,339.82	\$	-
	Operation, Monitoring, Maintenance and										
	Reporting for the Landfill Gas Collection								a land an		
	and Control System at the West Nassau										
05	Class I Landfill	\$	174,387.83	\$	-	\$	174,387.83	In progress	\$ 174,387.83	\$	-
	Preparation of Technical Bidding								atter and the state of the stat		
	Documents for a Flare Station Blower										
	Replacement Landfill Gas Collection and										
	Control System West Nassau Class I										
06	Landfill	\$	25,925.39	\$	-	\$	25,925.39	In progress	\$ 25,925.39	\$	-
	Well No. 2i Investigation at the Bryceville								的复数形式机械		
07	Landfill	\$	6,499.93	\$	-	\$	6,499.93	In progress	\$ 6,499.93	\$	-
	Preparation of a Permit Application for										
	Long-Term Care Renewal for the West										
08	Nassau Class 1 Landfill	\$	77,546.42			\$	77,546.42	Pending	\$ 77,546.42	\$	
										<u> </u>	(007.00)
		\$	446,244.85	\$	14,009.84	\$	460,254.69		\$ 459,927.03	\$	(327.66)

CURRENT CONTRACT VALUE:

\$ 459,927.03