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WORK AUTHORIZATION # CM2685-WA07 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

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

	CURRENT WOR	RK AUTHORIZATION						
		ort on the Inward Gradient Impact to	Water Quality					
Standards at the 42-Acr	e West Nassau Class I L	andfill Area						
CONTRACT OVERVIEW								
		Total of Previous Authorizations	\$324,293.52					
Date Submitted	7/26/19	Adjustments/Change Orders	\$0					
Amount	\$22,873.00	This Work Authorization	\$22,873.00					
Scheduled Completion	120 days from NTP	Current Contract Total	\$347,166.52					

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:

S2Li will begin preparation of a FDEP Report on the Inward Gradient Impact to Water Quality Standards at the 42-Acre West Nassau Class I Landfill Area. Services for the Work Authorization are further described in Attachment "A", attached hereto and incorporated herein.

ARTICLE 2. Time Schedule

Work under the Scope of Services provided above will begin upon receipt of the signed Work Authorization. Assuming a receipt of a Notice to Proceed by mid-October 2019, the draft report for County review will be submitted within 70 days such that corrections and finalization can be made to allow for final submittal to FDEP by January 7, 2020. A meeting with FDEP to discuss the report results and the LTC permit renewal is assumed to be conducted by February 15, 2020. Total days to conduct the services within this Work Authorization is 120 days from the Notice-to-Proceed.

ARTICLE 3. Budget

The cost estimate to conduct the work as described in the attached Scope of Service is \$22,873.00. 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.

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.

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.

AGR	EED	TO	RV.

Account No.: 01362534-531000

RECOMMENDED AND APPROVED BY NASSAU COUNTY:

Public Works:	Department Head or Designee
Contract Management:	Grayson Hagins
Office of Management & Budget:	Megan Diehl ///
County Manager:	Michael S. Mullin
Ex-Officio Clerk:	N/A John Crawford
County Attorney:	Michael S. Mullin

Attachment "A" Scope of Services

Preparation of a FDEP Report on the Inward Gradient Impact to Water Quality Standards at the 42-Acre West Nassau Class I Landfill Area

Nassau County
S2L, Inc.'s Contract and Work Authorization Number: CM2685-WA07
S2Li Project Number: 19-845

BACKGROUND

In July 2015, Nassau County ("County") renewed a closure permit (Permit No. 0002870-017-SF) that provided for long-term care ("LTC") after the closure of the West Nassau Class I Landfill ("Landfill" consisting of both the old closed unlined 11-acre and the lined 42-acre areas). Specific Condition No. C.8.b. allowed the County to discontinue groundwater withdrawal through the use of the "Recovery Well System" in the southeast corner of the Landfill for a testing period until July 1, 2020, to demonstrate that turning the system off will not result in violations of State water quality standards outside of the slurry wall. During this testing period, the County did not need to maintain an inward gradient at the slurry wall for the southern portion of the Landfill but is required to continue to monitor water level measurements inside and outside the slurry wall during this period. This monitoring work is currently being conducted by S2L, Incorporated ("S2Li") under a separate Work Authorization.

With the demonstration period nearing an end at the time of the LTC permit renewal, water quality analysis of the ground and surface water quality needs to be conducted for the demonstration period to determine if any water quality standards were impacted as a result of turning off the Recovery Well System. This analysis will include review of the water quality testing results and inward gradient well measurements to corollate any impact to water quality. The results of this analysis will formulate a recommendation to the Florida Department of Environmental Protection (FDEP) to either permanently shut down and abandon the Recovery Well System, or extend the demonstration period, or to turn the Recovery Well System back on. The report will be submitted to FDEP prior to meeting with the permitting staff to discuss the results/recommendation of the analysis. This analysis is to be conducted prior to preparing the Water Quality Technical Report due to FDEP by May 2020.

This Work Authorization will provide engineering and hydrogeological consulting services by S2Li and The Colinas Group ("TCG") (S2Li's hydrogeological subconsultant) collectively known as the "S2Li Project Team" to conduct an analysis of the inward gradient system and impacts to the water quality standards, and to assist the County in technical representations to the FDEP. Under the scope of services for this Work Authorization, S2Li Project Team will perform the following:

SCOPE OF SERVICES

Task 1: Water Quality Results Comparison to Inward Gradients Measurements

S2Li Project Team will analyze recorded monthly groundwater levels and results of semi-annual water quality sampling and chemical analyses available over the testing period to assess whether monitoring data indicate a resumption of internal groundwater withdrawals is necessary to protect groundwater resources outside the landfill slurry wall.

S2Li Project Team will prepare a written report presenting water level and water quality data used in the assessment, graphic presentations of the monitoring data, conclusions drawn as a result of the analysis, and recommendations for the future operation or shutdown of the Recovery Well System.

Deliverables: Draft and Final Report Documents

Task 2: Meeting with FDEP

S2Li Project Team will prepare for and attend one meeting with Nassau County and FDEP to discuss the results of our analysis and recommendations for future facility operations related to groundwater gradient control and the Recovery Well System at the West Nassau Landfill.

Deliverables: Meeting Agenda

SCHEDULE

Work under the Scope of Services provided above will begin upon receipt of the signed Work Authorization. Assuming a receipt of a Notice to Proceed by mid-October 2019, the draft report for County review will be submitted within 70 days such that corrections and finalization can be made to allow for final submittal to FDEP by January 7, 2020. A meeting with FDEP to discuss the report results and the LTC permit renewal is assumed to be conducted by February 15, 2020. Total days to conduct the services within this Work Authorization is 120 days from the Notice-to-Proceed.

COST ESTIMATE

The cost estimate to conduct the Work as described in the above listed Scope of Services is \$22,873.00. 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\Massau County\Inward Gradient Impact to Water Quality Standards\WNLF 42 Acre Inward Gradient Impact to Water Quality Analysis _OES.sbl.docx

August 5, 2019

1

2

Total Project Costs

S2Li Fee Estimate

Measurements Report

Meeting with FDEP

SUBTOTALS:

EXHIBIT 1

Preparation of a FDEP Report

Inward Gradient Impact to Water Quality Standards

West Nassau Landfill - 42 Acre Lined Area

Nassau County, Florida

\$

\$

		THE BUILDING				LABO	R CATEGORY AND	RATE	SAL BEGINN		
LABOR		Project Dir./ Principal	Regional Manager/ QC Officer	Principal Engineer	Senior Engineer	Project Engineer	Associate Engineer/CADD	Field Technician	Office Manager	TOTAL HOURS	SUBTOTAL LABOR
TASK	DESCRIPTION	\$250.00	\$232.25	\$190.26	\$137.09	\$97.92	\$74.21	\$52.38	\$76.24	Selection in the	
1	Water Quality Results Comparison to Inward Gradients Measurements Report	2	16	0	8	8	0	0	6	40	\$6,553.52
2	Meeting with FDEP	0	16	0	0	0	0	0	2	18	\$3,868.48
	SUBTOTALS:	2	32	0	8	8	0	0	8	58	\$10,422.00
EXPENS TASK	SES DESCRIPTION	Field Vehicle (\$100/day)	Lab Testing (est.)	Equipment Rental (est.)	Parts (est.)	The Colinas Group (Attachment)					SUBTOTAL EXPENSES

\$

	COST SUMMARY				
TASK	DESCRIPTION	SUBTOTAL SUBTOTAL EXPENSES including S2Li LABOR Subconsultant		EXPENSES including	TASK
1	Water Quality Results Comparison to Inward Gradients Measurements Report	\$ 6,553.52	\$	10,617.40	\$ 17,170.92
2	Meeting with FDEP	\$ 3,868.48	\$	1,833.60	\$ 5,702.08
T	OTALS	\$ 10,422.00	\$	12,451.00	\$ 22,873.00

\$

\$

\$10,617.40

\$1,833.60

\$ 12,451.00 \$

S2Li No.

County No.

19-845

CM2685-WA07

10,617.40

1,833.60

12,451.00

\$

Water Quality Results Comparison to Inward Gradients

August 5, 2019

Preparation of a FDEP Report Inward Gradient Impact to Water Quality Standards

S2Li No. 19-845 County No. CM2685-WA07

Attachment - The Colinas Group Fee Estimate - Subconsultant

West Nassau Class I Landfill Nassau County, Florida

					LABO	R CATEGORY AND	RATE						
LABOR			Senior Hydrogeologist	Staff Hydrogeologist	Environ. Field Tech.	Draftsperson/ CADD Oper.					Clerk/ Word Processor	TOTAL HOURS	SUBTOTAL LABOR
TASK	DESCRIPTION	\$152.80	\$123.50	\$90.50	\$88.35	\$62.00					\$39.50	4 1 1	
	Water Quality Results Comparison to Inward Gradients Measurements												
•	Report	13	34	40	0	8					8	103	\$10,617.40
2	Meeting with FDEP	12	0	0	0	0					0	12	\$1,833.60
	SUBTOTALS:	25	34	40	0	8					8	115	\$12,451.00
		Field	Lab	Equipment	Parts	Landtec		Subcon-					
EXPENSES	أأك عند أزيد	Vehicle (\$90/day)	Testing (est.)	Rental (est.)	(est.)	Web Data Base		tractors (est.)					SUBTOTAL EXPENSES
TASK	DESCRIPTION					(\$500/m)							
1	Water Quality Results Comparison to Inward Gradients Measurements Report	s -	\$ -	s -	\$ -	s -	\$ -	\$ -					\$ -
2	Meeting with FDEP	\$ -	s -	\$ -	\$ -	\$ -	\$ -	\$ -		1			\$ -
	SUBTOTALS:	s -	s -	\$ -	\$ -	\$ -	\$ -	\$ -					\$ -
		•	•	•	•			•	•	•	TOTAL		\$12,451.00

THE COLINAS GROUP, INC.

HYDROGEOLOGISTS & ENGINEERS

August 5, 2019

Mr. Omar Smith, P.E. S2L, Inc. 531 Versailles Drive Suite 202 Maitland, Florida 32751

Subj: Proposal for Hydrogeological Services
Inward Hydraulic Gradient Analysis
West Nassau Closed Landfill
TCG Proposal No. P-584

Dear Mr. Smith:

The Colinas Group, Inc. (TCG) is pleased to submit this proposal and fee estimate to complete the following Scope of Services for hydrogeological services in support of regulatory compliance actions for Nassau County's West Nassau Closed Class I Landfill.

SCOPE OF SERVICES

In the most recent permit modification for the closed West Nassau Landfill in July 2015, the FDEP approved discontinuing internal groundwater pumping inside the southern cell of the landfill's surrounding slurry wall for a testing period extending until July 1, 2020. The purpose of the testing period is to demonstrate that turning the internal pumping off has, or has not, resulted in violations of State of Florida water quality standards in groundwater outside of the slurry wall.

TCG will analyze monthly groundwater levels recorded by Nassau County staff and results of semiannual water quality sampling and chemical analyses available over the testing period to assess whether monitoring data indicate resumption of internal groundwater withdrawals is necessary to protect groundwater resources outside the landfill slurry wall.

TCG will prepare a written report presenting water level and water quality data used in the assessment, graphic presentations of the monitoring data, conclusions drawn for the analysis, and recommendations for future operation of the landfill inward hydraulic gradient pumping system.

TCG will attend one meeting with Nassau County and the FDEP to discuss the results of our analysis and recommendations for future facility operations related to groundwater gradient control at the West Nassau Landfill.

ESTIMATED FEES AND COSTS

TCG proposes to complete the above Scope of Services on a not-to-exceed fee basis in accordance with our personnel standard hourly rates. A summary of professional labor fees to complete this assignment is provided below:

Professional Labor

PROJECT COMPLETION

We estimate approximately 60 days from notice to proceed to complete the Inward Hydraulic Gradient Analysis and submit a written draft report to S2Li for review and comment. The final report will be delivered electronically within two weeks of draft review and approval.

I trust this proposal is suitable for your budget and contracting needs. If you have any questions or require further information, please do not hesitate to contact me at your convenience. We look forward to being of continued service to S2Li and Nassau County.

Very truly yours,

THE COLINAS GROUP, INC.

Richard L. Potts, Jr., P.G. Principal Consultant

Fl. P.G. Reg. No.1113



Attachment B

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

Contract Position	Hourly Rates
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.

THE COLINAS GROUP

Mr. Omar Smith, P.E. S2L, Inc. 529 Versailles Drive, Suite 202 Maitland, FL 32751

April 4, 2019

Subj: Professional Hydrogeologic Services Fee Schedule

S2L, Inc - Nassau County Continuing Contract for Engineering Services

Dear Mr. Levin:

The Colinas Group, Inc. (TCG) herein presents our proposed Professional Services Fee Schedule for hydrogeologic services that may be required from time to time in support of specific projects assigned to S2Li by Nassau County:

S2L, Inc. / Nassau County Continuing Professional Engineering Services Contract Support April 4, 2019

Personnel Classification	Billing <u>1</u> /. Rate
Principal Consultant/Project Manager (PG)	\$ 152.80 -
Sr. Hydrogeologist (PG)	\$ 123.50
Staff Hydrogeologist	\$ 90.50
Environmental Field Technician	\$ 88.35 <u>2</u> /.
Draftsperson/CAD Operator	\$ 62.00
Clerk/Word Processor	\$ 39.50

- 1/. Billing Rates include typical expenses such as mileage, reproduction and communication costs.
- 2/. Billing Rate includes mileage, field-testing instrument rental and water sampling supplies.
- 3/. As required, on a project-by-project basis, specialized field investigation equipment rental and subcontract drilling and well construction services will be billed as pass through costs with no profit or other fees added to actual cost.

The above billing rates will remain in force throughout the duration of S2Li's contract term with Nassau County.

Very truly yours, THE COLINAS GROUP, INC.

Richard L. Potts, Jr., P.G Principal Consultant FL P.G. Reg. No.1113

FY 2019-2020 BUDGET REQUEST

Operating Expenditures Detail

WN Phase II New PC & Closure 01362534

4 1 4 3

Vendor Name	Object	DESCRIPTION	Calculation	Contract Number	Itemized Cost	Object Class Total Cost
Professional Services S2Li	531xxx 531325	LFG O&M of Flare and gas system required by West Nassau FDEP Title V Permit		CM2096	146,000.00	699,934.00
				CIVIZUSE	146,000.00	
S2Li S2Li	531000 531000	Inward Gradient well monitoring & reporting required by FDEP WNLF Permit Landfill Stabilization & WQ Tech Report Due June 2020 FDEP required		CM2096 CM2096	22,000.00 27,000.00	
S2Li	531000	Financial Assurance Rpt FDEP required		CM2096	18,000.00	
S2Li S2Li	531000 531000	Water Quality collection, testing & reporting as required by FDEP Inward Gradient & Water Quality Impact Study as required by FDEP	CM2685	CM2096 CM2096	21,000.00 25,000.00	
S2Li	531000	General Engineering (other FDEP items that may arise or needed)	Chiadaos	CM2096	25,000.00	
Amelia Urgent Care	531035	Drug Testing as needed (1) one employee	4 employees@25\$		25.00	
Water Recovery	531313	Leachate removal Water Recovery	svg 405,000 gallon/mo *12/mo plus buffer	CM2245	325,000.00	
Water Recovery	531313CSCSW	Leachate removal Water Recovery FDEP Grant Funding reimb anticipated by	123110 plus bunci		90,909.00	
		FDEP Grant amount of \$90,909				
Contractual Services	534xxx					COMPANIENCE CONTRACTOR
SPECIAL DESCRIPTION OF THE PROPERTY OF THE PRO	AND DESCRIPTION AND DESCRIPTION OF THE PERSONS	Tellis and Charles (1994)				
Fravel & Per Diem	540xxx	(see itemized worksheet tab)				
Communications & Freight	541xxx 541000	753-1340 E.Diden County Cell	12mo*50/mo	HINESEE STATE OF	600.00	1,143.00
Verizon	541000	Gps services for Synovia SWD-229	12*0.20	CM2408a1	3.00	
Verizon	541000	Verizon wireless 753-0411 (on call cell phone)	12mo*\$45/mo		540.00	
Postage	542xxx					200.00
- College	542000	Various Fed-Ex permit requirement mailings			200.00	200.00
				ale con tree		
Utility Services (Electric, Water/Sewer, Garbage,						
etc.)	543xxx					11,880.00
FPL	543000	Flare Meter # KN37910 25% of total cost of bill other 25% budgeted in 01361534	\$600/mo*75%*12		5,400.00	
FPL	543000	NS leachate tanks mtr#KN37907 avg bill \$200*12			2,400.00	
FPL FPL	543000 543000	WS Pumping station mtr#AC64901 avg bill \$80*12 ES Pumping station mtr#AC64902 avg bill \$100*12			960.00 1,200.00	
FPL	543000	Maint shop at LF mtr#AC64904 avg bill \$80*12			960.00	
FPL	543000 543000	Street light mtr#AC64951 avg bill \$40/mo*12 SS pumping station mtr#AC64951 avg bill\$40/mo*12			480.00 480.00	
					700.00	
Rentals & Leases	544xxx					2,981.00
Airgas Fo be Determined	544000 544000	Rental & lease of oxygen, acetelyn tanks Rental of various closure equipment as needed			815.00 2,000.00	
		budgeted in 01361534, 01363534, 01364534				
Synovia	544000	GPS rental for closure vehicle 12*\$13,78 Synovia CM2408-A1 Unit SWD229			166.00	
nsurance	545xxx					4 775 00
nsurance		Insurance on equipment		and participated R	4,775.00	4,775.00
		Estimate based upon FY 19/20 Insurance Estimates provided by OMB				