WORK AUTHORIZATION # CM2685-WA04 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	WORK AUTHORIZATION	
Project Short Title: Inv	vard Gradient Meas	surements and Evaluation for the West Nas	ssau Landfill
		CONTRACT OVERVI	EW
		Total of Previous Authorizations	\$216,850.26
Date Submitted	7/26/19	Adjustments/Change Orders	\$ <mark>0</mark>
Amount	\$26,371.64	This Work Authorization	\$26,371.64
Scheduled Completion	09/30/2020	Current Contract Total	\$243,221.90

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 assist the County by measuring, recording, and evaluating the monthly inward gradient conditions at the slurry wall surrounding the West Nassau Landfill. Under the scope of services for this Work Authorization, S2Li will perform the services further described in Attachment "A", attached hereto and incorporated herein. Services will be completed as tasks consisting of:

RCVD OME Task 1 – Monthly Monitoring of Well Water Elevations by Taking Field Measurements Task 2- Monthly Monitoring Data Evaluation

ARTICLE 2. Time Schedule

Services will begin October 1, 2019 and run through this service period ending September 30, 2020.

ARTICLE 3. Budget

The cost estimate to perform the work as described in the Scope of Services is \$26,371.64. 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.

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:

Print Namé:	Samuel B. Levin	
Title:	President	
Date:	August 27, 2019	

Account No.: 01362534-531000-\$16,877.85 (64%) 01361534-531000-\$9,493.79 (36%)

RECOMMENDED AND APPROVED BY NASSAU COUNTY:

Public Works:

Department Head or Designee

Contract Management:

Office of Management & Budget:

County Manager:

Ex-Officio Clerk:

County Attorney:

Megan Diehl

Megan Diehl

Michael S. Mullin

N/A John Crawford Michael S. Mullin

ATTACHMENT A



SCOPE OF SERVICES

Inward Gradient Measurements and Evaluation for the West Nassau Landfill

Service Period: FY2020 (October 1, 2019 through September 30, 2020)

County Contract Number: CM2685-WA04 ✓ S2Li Project Number: 19-841 Service Period: FY2019 (October 1, 2018 through September 30, 2019)

This Work Authorization (WA) tasks S2L, Incorporated (S2Li) to assist the County by measuring, recording, and evaluating the monthly inward gradient conditions at the slurry wall surrounding the West Nassau Landfill (Landfill). Under the scope of services for this Work Authorization, S2Li will perform the following:

Task 1 – Monthly Monitoring of Well Water Elevations by Taking Field Measurements

S2Li will measure and record the water level elevations within wells at 50 locations (two wells per sampling location) surrounding the Landfill. These measurements will be conducted monthly, while S2Li is on-site for purposes of monitoring and testing the landfill gas extraction wells. A copy of the field form filled out by S2Li's personnel will be provided to the County upon leaving the Site. S2Li's personnel will input the monthly slurry wall monitoring well water elevations into the County provided spreadsheet template and the electronic form will be sent to the County.

Task 2 – Monthly Monitoring Data Evaluation

S2Li will graphically compare the water elevations inside and outside of the West Nassau Landfills' slurry wall and will note trending results. A summary discussion of the monthly data results compared to the previous data trends will be submitted monthly to the County in conjunction with the monthly dataCVD DMB results. Results that show any exceedances (inward gradient less than 12 inches) will be highlighted. Costs C 16 PMC associated with addressing any compliance and regulatory issues with the Florida Department of Environmental Protection (FDEP) are not included in this scope of services and if such services are necessary, will need to be addressed as an additional service.

SCHEDULE

The services under this Work Authorization would be conducted October 1, 2019 through September 30, 2020.

COST ESTIMATE

The cost estimate to conduct the Work as described in the above-listed Scope of Services is \$26,371.64. 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. 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.

D:\CloudStation\Projects\Nassua County\West Nassau\Inward Gradient Data\Proposal\S2LI_NC_WA04_FY20 West Nassau LF_Inward Gradient Collection and Documentation Services_NC_07-24-19.docx

July 24, 2019

SUBTOTALS:

EXHIBIT 1

Total Project Costs

S2Li Fee Estimate

Engineering Services

\$ 1,200.00 \$

Inward Gradient Measurements and Evaluation Service Period: FY2020 (October 1, 2019 through September 30, 2020)

West Nassau Class I Landfill

Nassau County, Florida

LABOR TASK		LABOR CATEGORY AND RATE									
ТАЅК		Project Dir./ Principal	Regional Manager/ QC Officer	Principal Engineer	Senior Engineer	Project Engineer	Associate Engineer/CADD	Field Technician	Office Manager	TOTAL HOURS	SUBTOTAL LABOR
	DESCRIPTION	\$250.00	\$232.25	\$190.26	\$137.09	\$97.92	\$74.21	\$52.38	\$76.24		
1	onthly Monitoring Well Water Elevations Field easurements	2	24	0	0	12	72	0	10	120	\$13,354.56
2 Mo	onthly Monitoring Data Evaluation	2	36	0	0	12	24	0	0	74	\$11,817.08
SUE	BTOTALS:	4	60	0	0	24	96	0	10	194	\$25,171.64
EXPENSES		Field Vehicle (\$100/day)	Lab Testing (est.)	Equipment Rental (est.)	Parts (est.)						SUBTOTAL EXPENSES
TASK	DESCRIPTION						1994 - C				
1	onthly Monitoring Well Water Elevations Field easurements	\$ 1,200.00	\$-	\$ -			\$-	\$0.00			\$ 1,200.00
2 Mo	onthly Monitoring Data Evaluation	\$ -	\$ -	\$ -	\$ -		\$-	\$0.00			\$ -

\$

\$

			COST SUMMARY						
				SUBTOTAL	SUBTOTAL EXPENSES including	TASK			
	Unlined WNLF - 36%; Lined WNLF - 64% of Fee	TASK	DESCRIPTION	S2Li LABOR	Subconsultants	TOTAL	_		
	West Nassau Class I Lined Landfill (42 acre area): \$ 16,877.85	1	Monthly Monitoring Well Water Elevations Field Measurements	\$ 13,354.56	\$ 1,200.00	\$ 14,554.56	1		
(2)	West Nassau Unlined Landfill (11 acre area): \$ 9,493.79	2	Monthly Monitoring Data Evaluation	\$ 11,817.08	\$ -	\$ 11,817.08			
C		TOTA	TALS	\$ 25,171.64	\$ 1,200.00	<u>\$ 26,371.64</u>	-		

\$

\$0.00

1) 01362534 - 531000 #16,877.85 - 22,000 budgeted - # 5,122.15 balance 6490 (2) 01361534 - 531000 #9,493.79 - #4,000 budgeted - (# -3,493.79 > balance 6490 BT from 01362534-53100 above to 01361534 - 531000 to Cover funds

S2Li No.

County No. CM2685-WA04

\$0 \$

1,200.00

\$0

19-841

FY 2019-2020 BUDGET REQUEST

Operating Expenditures Detail

WN Phase II New PC & Closure 01362534

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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
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		CM2096 CM2096	21,000.00 25,000.00	
S2Li	531000	General Engineering (other FDEP items that may arise or needed)		CM2096	25,000.00	
Amelia Urgent Care	531035	Drug Tesling as needed (1) one employee	4 employees@25\$		25.00	
Water Recovery	531313	Leachate removal Water Recovery	svg 405,000 gallon/mo	CM2245	325,000.00	
Water Recovery	531313CSCSW	Leachate removal Water Recovery FDEP Grant Funding reimb anticipated by FDEP Grant amount of \$90,909	*12/mo plus buffer	1.	90,909.00	
Contractual Services	534xxx					
Travel & Per Diem Communications & Freight	540xxx 541xxx	(see Itemized worksheet tab)				1,143.00
At&T Verizon Verizon	541000 541000 541000	753-1340 E.Diden County Cell Gps services for Synovia SWD-229 Verizon wireless 753-0411 (on call cell phone)	12mo*50/mo 12*0.20 12mo*\$45/mo	CM2408a1	600.00 3.00 540.00	
Postage	542xxx 542000	Various Fed-Ex permit requirement mailings		CS/IS/ES	200.00	200.00
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 FPL FPL FPL FPL	543000 543000	NS leachate tanks mtr#KN37907 avg bill \$200°12 WS Pumping station mtr#AC64901 avg bill \$80°12 ES Pumping station mtr#AC64902 avg bill \$100°12 Maint shop at LF mtr#AC64904 avg bill \$80°12			2,400.00 960.00 1,200.00 960.00	
=PL =PL	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	
Rentals & Leases Airgas	544xxx 544000	Rental & lease of oxygen, acetelyn tanks			815.00	2,981.00
ro be Determined Synovia	544000 544000	Rental of various closure equipment as needed budgeted in 01361534, 01363534, 01364534 GPS rental for closure vehicle 12*\$13.78 Synovia CM2408-A1 Unit SWD229			2,000.00	
nsurance	545xxx 545000	Insurance on equipment Estimate based upon FY 19/20 Insurance Estimates provided by OMB			4,775.00	4,775.00

FY 2019-2020 BUDGET REQUEST

Operating Expenditures Detail

WN Phase I Old Post Closure

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Vendor Name	Object	DESCRIPTION	Calculation	Contract Number	Itemized Cost	Object Class Total Cost
Professional Services S2Li S2Li S2Li S2Li S2Li S2Li	531xxx 531325 531000 531000 531000 531000	LFG O&M of Flare and gas system required by West Nassau FDEP Title V Permit Inward Gradient well monitoring & reporting required by FDEP WNLF Permit Landfill Stabilization & WQ Tech Report Due June 2020 FDEP required Financial Assurance RpI FDEP required Water Quality collection, testing & reporting as required by FDEP	Cmauss	CM2096 CM2096 CM2096 CM2096 CM2096 CM2096	44,000.00 6,000.00 8,000.00 5,000.00 6,000.00	69,000.00
Contractual Services	534xxx					
Travel & Per Diem Communications & Freight	540xxx 541xxx	(see ilemized worksheel lab)				-
Postage	542xxx				SALIST MUSIC	-
Utility Services (Electric, Water/Sewer, Garbage, etc.) FPL	543xxx 543000	Flare Meter # KN37910 25% of total cost of bill other 75% budgeted in 01362534	\$600/mo*25%*12		1,800.00	1,800.00
Rentals & Leases To be determined	544xxx 544000	Rental of mower/tractor in the event of equip failure or breakdown posted in other orgs, 01362534, 01363534, 01364534			1,000.00	1,000.00
Insurance	545xxx 545000	Estimate based upon the FY 19/20 Insurance Estimated provided by OMB			850.00	850.00



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.

Budget Transfer Request



Requesting Dept:		SOLID WA	STE	E Fund:		SW		nsfer #			
Requeste	d By:	B.Diden	D	Date:	8/9/19				PG1 of 1		
Purpose: WA 04 Inv			ard Gradient Mea	asurement & E	valuation Wi	NLF					
		FY19/20									
									Fin. Serv. Use Only		
	Acct. Nu	umber	Acct. Des	scription	An	nount	ł	Available Budget	Verified Available		
Transfer: From:	01362534-5	31000	Prof Srvc WNI	<u>_S</u>	\$	(3,500)	_\$	699,934.00			
То:	01361534-5	31000	Prof Srvc Old	Post Closure	\$	3,500	\$	69,000.00			
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