

**WORK AUTHORIZATION # CM2685-WA18
 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: Leachate Sample Collection and Testing Services at the West Nassau Landfill			
		CONTRACT OVERVIEW	
		Total of Previous Authorizations	\$923,582.06
Date Submitted	7/21/20	Adjustments/Change Orders	\$0
Amount	\$6,982.04	This Work Authorization	\$6,982.04
Scheduled Completion	60 days from estimated NTP of 10/1/20	Current Contract Total	\$930,564.10

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 five liquid samples from the West Nassau Landfill listed below. Under the scope of services for this Work Authorization, S2L, Incorporated (“S2Li”) and its subconsultant, The Colinas Group (“TCG”) (collectively known as the “S2Li Team”) will perform the services further described in Attachment “A”, attached hereto and incorporated herein.

- 1. West Side Pump Station (42-acre Lined Area)**
- 2. East Side Pump Station (42-acre Lined Area)**
- 3. French Drain Pump Station (11-acre Unlined Area)**
- 4. Leachate Storage Tanks – Composite**
- 5. Landfill Gas Flare Station or PS D-1 – LFG Condensate**

ARTICLE 2. Time Schedule

The total expected time period for this work authorization is 90 days from the notice to proceed assuming an October 15, 2020 notice to proceed date. If the NTP date is delayed, the sampling would need to be conducted as part of the spring sampling event and an alternate schedule will need to be provided to the County.

ARTICLE 3. Budget

The cost estimate to perform the work as described in the Scope of Services is \$6,982.04. 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:

BY: _____
Print Name: _____
Title: _____
Date: _____

Account No.: 01362534-531000

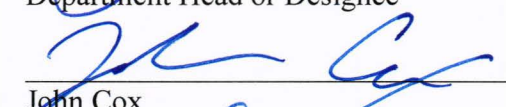
RECOMMENDED AND APPROVED BY NASSAU COUNTY:

Public Works:



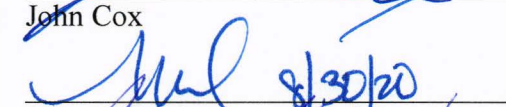
Department Head or Designee

Contract Management:



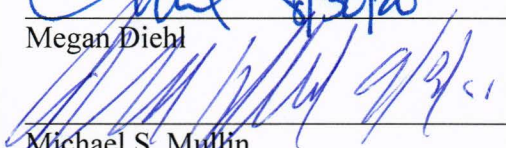
John Cox

Office of Management & Budget:



Megan Diehl 8/30/20

County Manager:



Michael S. Mullin 9/2/21

ARTICLE 3. Budget

The cost estimate to perform the work as described in the Scope of Services is \$6,982.04. 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.

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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: [Signature]
Print Name: Samuel B. Levin
Title: President
Date: September 17, 2020

Account No.: 01362534-531000

RECOMMENDED AND APPROVED BY NASSAU COUNTY:

Public Works:

[Signature]
Department Head or Designee

Contract Management:

[Signature]
John Cox

Office of Management & Budget:

[Signature] 8/30/20
Megan Diehl

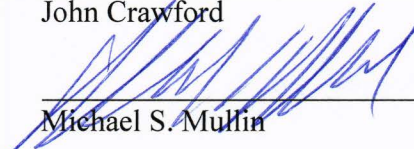
County Manager:

[Signature] 9/2/20
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

Leachate Sample Collection and Testing Services

at the

West Nassau Landfill

County Contract Number: CM2685-WA18
S2Li Project Number: 20-891

BACKGROUND

Nassau County is interested in evaluating potential alternative leachate and landfill gas condensate disposal options, with a goal of reducing its current costs for leachate and condensate disposal. A first step in the process is to evaluate the composition and quality of leachate and condensate being collected and hauled off site for disposal. There are several distinct sources generating leachate and condensate at the West Nassau Landfill, and all are currently combined for subsequent disposal. As the quantity and quality of these liquid streams varies, a total of five liquid samples will need to be collected and tested.

One sample will be collected for testing at each of the following locations:

1. West Side Pump Station (42-acre Lined Area)
2. East Side Pump Station (42-acre Lined Area)
3. French Drain Pump Station (11-acre Unlined Area)
4. Leachate Storage Tanks – Composite
5. Landfill Gas Flare Station or PS D-1 – LFG Condensate

This Work Authorization provides for the services required to collect and test five liquid samples from the West Nassau Landfill. Under the scope of services for this Work Authorization, S2L, Incorporated ("S2Li") and its subconsultant, The Colinas Group ("TCG") (collectively known as the "S2Li Team") will perform the following:

SCOPE OF SERVICES

S2Li Team will collect leachate samples at a total of five sampling locations. S2Li Team will measure and record certain field parameters during each sample collection to include the parameters listed below.

Field parameters:

- Specific conductivity
- pH
- Dissolved oxygen
- Temperature
- Colors, sheens (by observation)

Collected samples will be properly prepared and stored on ice for transport to the analytical laboratory for chemical analysis. Laboratory services will be provided by Environmental Conservation Laboratories, Inc. in Jacksonville. Specific analyses to be provided by the laboratory are listed below.

Laboratory parameters:

- Total ammonia - N
- Bicarbonate
- Chlorides
- Iron
- Mercury
- Nitrate
- Sodium
- Total dissolved solids (TDS)
- Biochemical oxygen demand (BOD5)
- Chemical oxygen demand (COD)
- PFAS
- Those parameters listed in 40 CFR Part 258, Appendix II.

Leachate sampling will be scheduled for completion during the upcoming semi-annual FDEP monitoring event scheduled for November 2020.

Deliverables: Test results for each sample collected.

SCHEDULE

The total expected time period for this work authorization is 90 days from the notice to proceed assuming an October 15, 2020 notice to proceed date. If the NTP date is delayed, the sampling would need to be conducted as part of the spring sampling event and an alternate schedule will need to be provided to the County.

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 to 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 **\$6,982.04**. 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.

July 23, 2020
 Total Project Costs
 S2Li Fee Estimate

EXHIBIT 1

S2Li No. 20-891
 County No. CM2685-WA18

Leachate Sample Collection and Testing 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										
	Leachate Sample Collection and Testing	1	2	0	0	0	0	0	1	4	\$ 790.74
	SUBTOTALS:	1	2	0	0	0	0	0	1	4	\$ 790.74

EXPENSES		Field Vehicle (\$100/day)	Lab Testing (est.)	Equipment Rental (est.)	Parts (est.)	Surveyor (est)		The Collins Group (see attached)			SUBTOTAL EXPENSES
TASK	DESCRIPTION										
	Leachate Sample Collection and Testing	\$ -	\$ -	\$ -			\$ -	\$ 6,191.30	\$ -		\$ 6,191.30
	SUBTOTALS:	\$ -	\$ -	\$ -	\$ -		\$ -	\$ 6,191.30	\$ -	\$ -	\$ 6,191.30

Note: All of this Work is associated with the Lined 42 Acre area of the landfill.

COST SUMMARY				
TASK	DESCRIPTION	SUBTOTAL S2LI LABOR	SUBTOTAL EXPENSES Including Subconsultants	TASK TOTAL
	Leachate Sample Collection and Testing	\$ 790.74	\$ 6,191.30	\$ 6,982.04
	TOTALS	\$ 790.74	\$ 6,191.30	\$ 6,982.04

July 23, 2020

Attachment - The Colinas Group Fee Estimate - Subconsultant

Leachate Sample Collection and Testing Services
 West Nassau Landfill
 Nassau County, Florida

S2Li No. 20-891
 County No. CM2685-WA18

LABOR		LABOR CATEGORY AND RATE										TOTAL HOURS	SUBTOTAL LABOR
		Principal Consultant \$152.80	Senior Hydrogeologist \$123.50	Staff Hydrogeologist \$90.50	Field Technician \$88.35	Draftperson/ CAD \$62.00	Clerk/ Word Process. \$39.50						
TASK	DESCRIPTION												
	Leachate Sample Collection and Testing	4	0	0	6	0	0	0	0	0	0	10	\$ 1,141.30
	SUBTOTALS:	4	0	0	6	0	0	0	0	0	0	10	\$ 1,141.30
EXPENSES		Field Vehicle (\$100/day)	Lab Testing (est.)	Equipment Rental (est.)	Parts (est.)		Subcontractors (est.) (see attached)						SUBTOTAL EXPENSES
TASK	DESCRIPTION												
	Leachate Sample Collection and Testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,050.00	\$ -					\$ 5,050.00
	SUBTOTALS:	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,050.00	\$ -					\$ 5,050.00
TOTAL												\$6,191.30	

THE COLINAS GROUP, INC.
HYDROGEOLOGISTS & ENGINEERS

July 22, 2020

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

Subj: Proposal for Professional Hydrogeological Services
Leachate Collection and Laboratory Analysis
West Nassau Closed Landfill
Nassau County, Florida
TCG Proposal No. P-605

Dear Mr. Smith:

The Colinas Group, Inc. (TCG) is pleased to present this proposal to provide professional services for collection and laboratory analysis of representative landfill leachate samples from the leachate management system at the West Nassau Closed Landfill.

Scope of Services

TCG will collect leachate samples at a total of five (5) sampling locations identified by S2Li around the closed northern and southern portions of the landfill. TCG will measure and record certain field parameters during leachate sample collection to include the parameters listed below.

Field parameters:
Specific conductivity
pH
Dissolved oxygen
Temperature
Colors, sheens
(by observation)

Collected samples will be properly prepared and stored on ice for transport to the analytical laboratory for chemical analysis. Laboratory services will be provided by Environmental Conservation Laboratories, Inc. in Jacksonville. Specific analyses to be provided by the laboratory are listed below.

Laboratory parameters:

- Total ammonia - N
 - Bicarbonate
 - Chlorides
 - Iron
 - Mercury
 - Nitrate
 - Sodium
 - Total dissolved solids (TDS)
 - Biochemical oxygen demand (BOD5)
 - Chemical oxygen demand (COD)
 - PFAS
- Those parameters listed in 40 CFR Part 258, Appendix II.

Leachate sampling will be scheduled for completion during the upcoming semi-annual FDEP monitoring event scheduled for November 2020.

Estimated Labor Fees and Costs

TCG proposes to complete the above Scope of Services in accordance with our current standard hourly fee schedule and a quote from our selected chemical laboratory Environmental Conservation Laboratories, Inc. for laboratory analysis. An estimate of fees and costs to complete this project is provided below as follows:

TCG Professional Labor.....	4 hours @ \$ 152.80/Hr.	= \$ 611.20
Field Sample Collection.....	6 hours @ \$ 88.35/Hr.	= <u>530.10</u>
	Sub-Total	\$ 1,141.30
Laboratory Analytical Cost.....	\$1,010.00/sample x 5 samples	= <u>\$ 5,050.00</u>
	Total Fees and Costs	= \$ 6,191.30

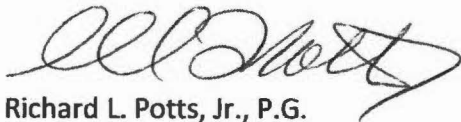
TCG will not exceed the above fee estimates and laboratory costs unless the Scope of Services is increased, and then only upon prior receipt of written authorization from S2Li.

Project Schedule

TCG proposes to complete leachate sampling activities in conjunction with routine semi-annual water quality monitoring sampling activities scheduled at the West Nassau Landfill during November 2020. We estimate thirty (30) days from submission of samples to the laboratory for completion of analyses and delivery of results to S2Li.

We appreciate the opportunity to present this proposal for your consideration and look forward to being of service to S2Li and Nassau County. If you have any questions concerning this proposal please do not hesitate to contact our office at your convenience.

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 ^{1/} . Rate
Principal Consultant/Project Manager (PG)	\$ 152.80
Sr. Hydrogeologist (PG)	\$ 123.50
Staff Hydrogeologist	\$ 90.50
Environmental Field Technician	\$ 88.35 ^{2/} .
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

Initials