

## 1 – Vendor Profile

### Statement of Interest & Understanding of Project

#### Statement of Interest

We believe that **we are the ideal partner** to immediately tackle the As Needed Geologic and Hydrogeologic Services tasks at hand. Our project team **have worked efficiently together** on past projects similar to the scope outlined in the RFP and have repeatedly delivered innovative solutions relying on our long history of solid waste focused project experience. As demonstrated in our submittal, **CEC has more than 17 years of experience providing solid waste related services** at a wide range of municipal and private landfills across Florida. CEC expanded into hydrogeological services approximately five years ago and **members of our staff have been performing hydrogeologic services for landfills for over 20 years**. We are intimately familiar with the solid waste permits (0125106-029SO-MM, 0125106-032-SO-01, 0125106-033-SF-01, and 0125106-034-SF-14) for the Lake County Central Solid Waste Management Facility (Central Landfill) and (0075543-005-SF) for the Umatilla Closed Landfill (Umatilla Landfill) and the detailed monitoring requirements associated with the Sites. **Our experienced staff located in Tampa and Orlando** are available to provide safe, efficient, and thorough support. We are prepared to fully meet and exceed your expectations. We offer a unique combination of experience, knowledge and skills which, combined with our presence near Lake County, makes us the best choice for meeting the County's goals with this project.

**We have assembled a project team with deep bench strength to service Lake County** and can add additional capacity as needed. **CEC currently has over 215 employees** including Florida licensed Professional Engineers, Professional Geologists, compliance and permitting staff, local operations and maintenance personnel, eight (8) construction piping crews, and six (6) drill rigs. Our in-house engineering, permitting, and operations, maintenance & monitoring capability will allow CEC to provide services to the County in a cost-effective and seamless manner.

CEC has extensive experience in the specific technical scope of the RFP and currently work on multiple projects similar in size and scope. Our team has experience with similar projects, includes Florida professional engineers and geologist with experience in landfills, landfill water quality monitoring systems, landfill gas, and associated systems.

#### Understanding of Project

Lake County owns and maintains the Central Landfill and the Umatilla Landfill. Lake County requires performance of the following geologic and hydrogeologic professional services in accordance with the facility permits and plans, FDEP regulations, and relevant guidance:

- Geologic and Hydrogeologic services, monitoring plan design, contamination assessments, alternate source demonstrations (ASD), evaluation monitoring, and similar tasks as requested by County.
- Review monitoring well data and water levels.
- Prepare water quality monitoring reports, including contour maps, to be submitted to FDEP.
- Make recommendations about changes to future landfill water quality monitoring.

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- Make recommendation to reduce monitoring requirements based on the historical data and present reasoning to FDEP.
  - Obtain permits on behalf of the County.
  - Provide oversight for the installation of new monitoring wells.
  - Well installation, repair, and/or abandonment services.

CEC understands the basic project schedule to be as follows:

### **Water Quality Semi-Annual:**

#### **Central Landfill:**

- Semi-annual water quality monitoring, analysis, and reporting for the Central Landfill.
  - Forty-five MPIS wells (organics, indicators, and metals)
  - Six C&D wells (organics, indicators, metals)
  - Twenty-one MOP wells (three are annual only) (VOCs and indicators)

#### **Umatilla Landfill:**

- Semi-annual water quality monitoring, analysis, and reporting for the Umatilla Landfill.
  - Seven MPIS wells (one is annual only) (chloride (annual well only), arsenic, sodium (annual well only), benzene, xylene (annual well only)).

### **Technical Water Quality Reporting:**

#### **Central Landfill**

- Technical water quality monitoring report is due every 2.5 years. Previous report was due March 1, 2021 (granted extension on June 30, 2021 to August 20, 2021). Next report will be due September 1, 2023.

#### **Umatilla Landfill**

- Technical water quality monitoring report is due every five years. Current report is due October 28, 2021 (Submitted September 21, 2021). Next report will be due October 31, 2026.

## **Firm Profile / Firm History**

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Since 2004, CEC has been a **full-service provider of solid waste services** to the southeast United States and is headquartered in Monroe, North Carolina with a principal office in Marietta, Georgia and Orlando, Florida. Unlike most other general engineering firms, **CEC specializes in landfills** - over 90% of our work and experience is specific to landfills. We have grown tremendously since our inception and continue to grow due to our unique service and expertise. CEC currently has over 215 employees including licensed Florida Professional Engineers, Professional Geologists, compliance and permitting staff, local operations and maintenance personnel, eight (8) construction piping crews, and six (6) drill rigs. Our in-house engineering, permitting, and operations, maintenance & monitoring capability will allow CEC to provide services to the County in a **cost-effective and seamless manner**.

We believe a key difference in our firm is our overlap between engineering, compliance/permitting, OM&M, and construction services. Each division within our company operates in cooperation with the others and every person in our firm is focused on exceeding our clients' expectations. Many members of our team perform multiple functions to broaden their expertise and increase their ability to support one another, and in turn, our clients. This cooperation ensures **high quality work products** that are

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produced with *all aspects* of the work in mind that have been reviewed from multiple perspectives. Our growth has been largely based on word-of-mouth from one client to another. In their respective expertise, CEC personnel are some of the best in the business and we take pride in **our clients' satisfaction** with our work. One of our guiding principles is to be a **trusted advisor** to our clients and to build long-lasting partnerships. Our goal is to treat a client's project as if it was our own and to ensure it is **completed accurately, on-time, within budget, and in-compliance**.

The basis of CEC's success is founded from our firm's ability to seamlessly link engineering, operations, and construction services. In a highly competitive marketplace, CEC has excelled by employing skilled professionals, providing exceptional hands-on service, and developing **cost-effective solutions for our clients**. We do not advertise, but have grown extensively based solely on word of mouth and satisfied clients.

As a smaller engineering and consulting firm, CEC's strengths are providing personal service to our clients with the flexibility to adapt to project changes with ease. CEC has provided solid waste services and water quality monitoring and reporting services to over **400 open and closed landfills and transfer station facilities** across the country, with a **concentrated volume of projects in the southeastern region** of the United States.

Our client base is comprised of private and municipal clients, however, to date a majority of our work has been with the private sector, meaning **we run leaner and are more cost effective** than firms that cater predominantly to municipalities. Our strength is that we are **innovative, we push for newer, better, and more cost-effective approaches** because our clients demand it. We concentrate our effort in getting the best people and providing the best deliverables rather than just looking good on paper.

Our services include, but are not limited to, water quality monitoring and reporting, landfill improvement designs, storm water system inspections & certifications, construction design and management, transfer station design and construction, regulatory interpretation and negotiation, air and solid waste permitting and regulatory compliance reporting, and post-closure care monitoring, preparation and reviews of financial assurance plans, LFG system maintenance and monitoring, blower/flare station maintenance and construction, environmental due diligence, accumulated liquid management and assessment, data reviews and site assessments, and routing service software. **The CEC team has been performing Semi-Annual Monitoring and Reporting, Technical Water Quality Monitoring Reports, Evaluation Monitoring, Contamination Assessment Monitoring and Reporting, and Alternate Source Demonstrations for landfill facilities for the past 20 years.**

## Completed Attachment 3 – Reference Form

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Below is our completed attachment 3 - client reference forms.

List no more than five projects which best illustrates qualifications relevant to the Solicitation. References must be less than five years old. LIST no more than two LAKE COUNTY GOVERNMENT PROJECTS (past, current, prime, and subcontractor) FIRST.

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Carlson Environmental Consultants, PC

PROJECT NAME: Trail Ridge Landfill Water Quality

Agency: FDEP Northeast District

Address: 5110 US Highway 301 South

City, State, Zip code: Baldwin, Florida 32234

Contact Person: Eric Parker

Title: Environmental Protection Manager

Email: eparker1@wm.com

Telephone: 904-562-9755

Project Cost: Confidential

Contract Start and End Dates: August 2017 - Present

SCOPE of Project (list tasks, outlines or descriptions of items): Trail Ridge Landfill is a 427-acre MSW landfill that is owned by the City of Jacksonville and operated by Trail Ridge Landfill, Inc., a subsidiary of Waste Management. CEC has provided water quality reporting services at the site since 2017. Routine work has included installation of new monitoring wells, review of water quality data, preparation of potentiometric surface maps, and preparation and submission of water quality reports and time sensitive notifications. The City recently began construction and operation of a 280 acre expansion which included an extensive stormwater management system. After contaminants were detected above water quality standards in expansion area groundwater and surface waters, CEC planned and conducted a multi-media field investigation as part of an Alternate Source Demonstration (ASD). CEC worked with multiple stakeholders to conduct the ASD and address neighbor and regulatory concerns.

PROJECT NAME: Vista Class III Water Quality

Agency: FDEP Central District

Address: 242 West Keene Road

City, State, Zip code: Apopka, Florida 32703

Contact Person: Eric Parker

Title: Environmental Protection Manager

Email: eparker1@wm.com

Telephone: 904-562-9755

Project Cost: Confidential

Contract Start and End Dates: August 2019 - Present

SCOPE of Project (list tasks, outlines or descriptions of items): Vista Class III Landfill's 23 existing groundwater monitoring wells monitor the quality of the surficial aquifer at two general depths. Elevated concentrations of parameters have been occasionally detected at the site. These

parameters were shown to be originating from an off-site source and not related to the landfill. Water quality concerns were addressed to avoid corrective actions that could impact waste disposal operations at this critical facility. CEC's work at this site includes routine water quality monitoring, alternate source demonstrations, and 2.5 year technical water quality summary reporting. With mounting regulatory pressure on WMIF, we have been able to avoid corrective actions by acting as a strong advocate on behalf of our client and proving that many of the detections can't be solely attributed to the facility. To date, WMIF continues to solely track groundwater quality by routine monitoring, and the frequency and number of parameters for the monitoring has been reduced.

PROJECT NAME: Otis Road Landfill

Agency: FDEP Northeast District

Address: 1700 Otis Road

City, State, Zip code: Jacksonville, Florida 32220

Contact Person: Edward Schmalfeld II

Title: Operations Manager

Email: Edward.schmalfeld@gflenv.com

Telephone: 904-701-5982

Project Cost: Confidential

Contract Start and End Dates: 2018 to Present

SCOPE of Project (list tasks, outlines or descriptions of items): The Otis Road Disaster Recovery Debris Management and Recycling Facility (a.k.a. Otis Road Landfill) is an active Class III facility owned by Otis Road Landfill, LLC. The Otis Road Landfill consists of approximately 156 acres used for the disposal of Class III waste, land clearing debris, and clean debris; for the processing of yard trash; for the recovering of recyclable materials from the waste stream; and for the temporary storage of disaster recovery debris (which has already been authorized by the City of Jacksonville's Certificate of Public Convenience and Necessity). CEC's work at Otis Road began soon after the landfill began accepting waste. Several groundwater monitoring wells that were installed during site development exhibited excessive turbidity. FDEP requested the site prepare an action plan to address the issue and CEC was retained. CEC worked with FDEP and the site to better evaluate the site hydrogeology and review several potential solutions. Ultimately, the wells were redrilled the wells at different depth intervals using rotary mud techniques. The replacement wells consistently achieve turbidity standards and pose no further issues. CEC was then retained to provide ongoing management of routine water quality sampling and analysis, water quality compliance reporting, alternate source demonstrations, and 2.5 year technical water quality summary reporting. With regulatory pressure on the landfill, we have been able to avoid corrective actions by acting as a strong technical advocate on behalf of our client and proving that none of the detections can be attributed to the facility. To date, Otis Road Landfill continues to solely track groundwater quality by routine monitoring. CEC has also developed the site's Stormwater Pollution Prevention Plan and provides miscellaneous solid waste management technical and consulting services.

PROJECT NAME: Pine Ridge Recycling and Disposal Facility Water Quality

Agency: FDEP Central District

Address: 5617 Rex Drive,

City, State, Zip code: Winter Garden, Florida 34787

Contact Person: Seth Ramaley

Title: Director of Groundwater and Technical Programs

Email: sramaley@wm.com

Telephone: 404-556-2145

Project Cost: Confidential

Contract Start and End Dates: August 2019 - Present

SCOPE of Project (list tasks, outlines or descriptions of items): Pine Ridge Recycling and Disposal Facility's 18 existing groundwater monitoring wells monitor the quality of the surficial aquifer at two general depths. Elevated concentrations of typical landfill gas indicator parameters have been occasionally detected at the site. Landfill gas systems were improved to address the water quality concerns and to avoid corrective actions that could impact waste disposal operations at this facility. Our work at this site includes routine water quality reporting and 2.5 year technical water quality summary reporting, and landfill gas system design and engineering. With mounting regulatory pressure on WMIF, we have been able to avoid corrective actions by acting as a strong advocate on behalf of our client and proactively addressing the potential source of impacts. To date, WMIF continues to solely track groundwater quality by routine monitoring and reporting.

PROJECT NAME: Okeechobee Landfill

Agency: FDEP Southeast District

Address: 10800 NE 128th Ave

City, State, Zip code: Okeechobee, Florida 34972

Contact Person: Elizabeth Foeller

Title: Area Manager – Environmental Protection

Email: efoeller@wm.com

Telephone: 941-720-0564

Project Cost: Confidential

Contract Start and End Dates: 2006 - Present

SCOPE of Project (list tasks, outlines or descriptions of items): The Berman Road Landfill (a.k.a. Okeechobee Landfill) is an active MSW facility owned by Okeechobee Landfill, Inc. a subsidiary of Waste Management. The Okeechobee Landfill has been in operation since 1982. The facility has accepted up to 7,000 tons per day with total design capacity of more than 50 million tons. CEC has been providing varying degrees of construction, engineering, construction quality assurance, planning and operations, maintenance, and monitoring (OMM) support over the past 15 years and has assisted WM to successfully permit, design and construction expansion of the landfill, landfill infrastructure, as well as the landfill gas collections system. CEC performs a variety of services at the Okeechobee Landfill which are representative of work we perform at dozens of other active landfills. 1. •Engineering – Groundwater and Surface Water – CEC prepares and reviews water quality data, preparation of potentiometric surface maps, and preparation and submission of water quality reports, evaluation monitoring reports, and time sensitive notifications. 2. •Engineering – Underground Injection Control (UIC) permitting for the Deep Injection Well – CEC is preparing a minor permit modification for the leachate disposal deep injection well. This included collection of samples, evaluation of data, and preparing the minor permit modification request. 3. •Engineering – Solid Waste Permitting – CEC prepared a minor permit modification and Operation Plan revision to allow the use of Lime Solids (Biosolids) from Drinking Water Treatment Plans as daily cover. 4. •Engineering - Air Compliance Reporting. CEC prepares semiannual and air compliance reports required under the Title V permit. 5. •Blower Flare Station – Operations & Maintenance. CEC has provided quarterly/annual calibration services, inspection services, and troubleshooting for the multiple Flares and Thiopaq plant installed onsite. Often this work requires Confined Space Entry permit or is completed under OSHA Level B Protection.

## **Program Manager**

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CEC's Program Manager, Ken Guilbeault, P.G., is located in Tampa, Florida.

Mr. Guilbeault will communicate with Lake County Staff on a regular basis, and schedule/deploy CECs staff where needed. He will also collect and review field documentation, and will coordinate subsequent report preparations, engineering design, permitting, construction management, and submittals back to Lake County.

### **Program Manager:**

Ken Guilbeault, P.G.  
100 South Ashley Drive  
Suite 600  
Tampa, Florida 33602  
(813) 240-4568  
kguilbeault@cecenv.com

***Education***

BS – Environmental Science/Policy, University of South Florida, 1999

***Professional Geologist Certifications***

Florida, Georgia, Tennessee, Alabama, and Louisiana

***Specialty Certifications***

OSHA 29 CFR 1910.120 HAZWOPER, Worker, 2000

OSHA 29 CFR 1910.120 8 Hour HAZWOPER Refresher

Mr. Guilbeault is a Project Director. He has over 21 years of environmental consulting experience. His environmental consulting experience includes coordinating, conducting, and managing projects involving hydrogeologic assessments; hazardous wastes; contamination assessment, remedial design, construction, and operation of groundwater treatment systems; environmental due diligence; pollution prevention; environmental permitting; solid waste management; storage tanks; water resources; deep injection wells; and stormwater. Mr. Guilbeault specialties include database management, 3-D visual modeling of sites, statistics, and geographic information systems (GIS). His environmental consulting experience has resulted in being well practiced in the major federal environmental regulations with specialization in the Southeastern United States.

Examples project experience includes:

**Landfill**

**Hillsborough County, Florida, Active Landfill Engineering and Environmental Services.** Mr. Guilbeault served as Project Manager under a multi-year, continuing solid waste management consulting services contract for the County's active landfill. Project work included negotiations with the FDEP, preparation of biennial technical water quality reports, preparation of an Alternate Procedures Plan, Corrective Action Plan, and Leachate Management Plan.

**Pinellas County, Toytown Landfill.** Staff professional for renewal of the long-term care permit for the Toytown Landfill in Pinellas County, Florida including preparation of the biennial groundwater monitoring evaluation report and slurry wall evaluation report.

**Waste Management, Inc., Keene Road, Pine Ridge, Berman Road, Vista, Bayside Landfills, Longleaf C&D, Springhill, Trail Ridge Landfill, Jones Road Landfill, Old Kings Road Landfill, Pasco Lakes Landfill, Panama City C&D, Gulf Coast, Immokalee Landfills.** Project Manager for routine and evaluation monitoring studies, including evaluation of historical groundwater, surface water and leachate quality data, and evaluation of potentiometric data. The water quality and potentiometric data are tabulated and plotted for interpretation, including the use of time plots, histograms, Stiff diagrams and potentiometric maps. Conclusions are drawn regarding adequacy of sampling parameters and frequency along with direction and rate of groundwater flow. Prepared quarterly, semi-annual, and biennial technical water quality reports for submittal to the FDEP.



**Manatee County Closed and Active Landfills, Manatee County, Florida**

Project Manager for routine and evaluation monitoring studies, including evaluation of historical groundwater and surface water quality data, and evaluation of potentiometric data. This included evaluation of the source of groundwater impacts.

**Volusia County, Tomoka Farms Road Landfill and Plymouth Avenue Landfill.** Project Professional for routine and evaluation monitoring studies, including evaluation of historical groundwater, surface water and leachate quality data, and evaluation of potentiometric data. The water quality and potentiometric data are tabulated and plotted for interpretation, including the use of time plots, histograms, and potentiometric maps. Conclusions are drawn regarding adequacy of sampling parameters and frequency along with direction and rate of groundwater flow.

**Flagler County, Active C&D Facility, Bunnell Landfill, and Old Kings Road Landfill.** Project Professional for routine and evaluation monitoring studies, including evaluation of historical groundwater, surface water and leachate quality data, and evaluation of potentiometric data. The water quality and potentiometric data are tabulated and plotted for interpretation, including the use of time plots, histograms, and potentiometric maps. Conclusions are drawn regarding adequacy of sampling parameters and frequency along with direction and rate of groundwater flow.

**Marion County, Closed Davis Landfill.** Project Manager and Project Geologist for site assessment and groundwater monitoring at the Closed Davis Landfill site. Project included the evaluation of the extent of the contaminant of concern across several flow zones within the Surficial and Floridan aquifers systems. Oversight of the installation of several deep monitoring wells with a sonic drill rig (200-300 feet). Completed supplemental site assessment and initiated a semi-annual groundwater-monitoring program to determine plume stability and contaminant trends across the site.

**Charlotte County, Zemel Road Landfill.** Project Manager for routine and evaluation monitoring studies, including evaluation of historical groundwater, surface water and leachate quality data, and evaluation of potentiometric data. The water quality and potentiometric data are tabulated and plotted for interpretation, including the use of time plots, histograms, and potentiometric maps. Conclusions are drawn regarding adequacy of sampling parameters and frequency along with direction and rate of groundwater flow.

**Hardee County, Hardee County Landfill.** Project Manager for routine and evaluation monitoring studies, including evaluation of historical groundwater, surface water and leachate quality data, and evaluation of potentiometric data. The water quality and potentiometric data are tabulated and plotted for interpretation, including the use of time plots, histograms, and potentiometric maps. Conclusions are drawn regarding adequacy of sampling parameters and frequency along with direction and rate of groundwater flow.

**Citrus County, Citrus County Landfill.** Project Manager for preparing and maintaining a database of groundwater and leachate monitoring results, the collection and preparation of leachate monitoring reports, the installation and abandonment of monitoring wells. Hydrogeologist for the preparation of biennial groundwater technical reports. The technical report included an evaluation of data for groundwater impacts related to landfill gas interaction with groundwater. Hydrogeologist for a sinkhole evaluation in the area of the proposed landfill footprint. Prepared 3-Dimensional models of the landfill in support of expanding permitted disposal areas.

**Winter Haven, Sage Road Landfill.** Staff professional for contamination assessment of the Sage Road Closed Landfill in Winter Haven, Florida. The work consisted of inventorying of surrounding private wells, assessing landfill gas on the landfill and in adjacent structures, assessing cover thickness, installation and sampling of monitoring wells, and negotiating with regulators regarding long-term closure requirements.

**Northwest Hillsborough County Closed Landfill.** Senior Project Scientist assisting the Hillsborough County Solid Waste Department with assessment of groundwater and surface water quality assessment of the Northwest Hillsborough Closed Landfill in order to address requirements in a consent order. Specific issues include evaluation of groundwater/surface water interaction and potential mobilization of contaminants from loading of waste filled areas. Developed Geographic Information System (GIS) and Access Database for the landfill.

**Putnam County, Central Landfill.** Project Manager for well abandonment, installation, and slug testing for wells around Cell 3 of the Putnam County Central Landfill. Worked with County and several contractors during the construction of Cell 3 to coordinate abandonment and installation activities that would not be disruptive during the construction of the Landfill Cell.

**Buncombe County, North Carolina, Groundwater Monitoring Program.** Project Manager on a multi-year surface and groundwater-monitoring program at the Buncombe County, NC old and new landfill facilities. Sampling and testing of the groundwater and surface water is conducted twice yearly. Additional testing is required for potable wells around the new landfill site as the county develops a data base of water quality in the area. The result of the testing is reported to the NCDENR and to the County. A Microsoft Access data base is used for the storage of the collected data and an Access program was developed to provide the County with a simple method of reviewing the data results.

**Marion County, Oregon, North Marion County Disposal Facility and Browns Landfill.** Hydrogeologist on a multi-year surface and groundwater-monitoring program at the Marion County, Oregon NMCDF and Browns Island landfill facilities. Sampling and testing of the groundwater and surface water is conducted twice yearly. A Microsoft Access database is used for the storage of the collected data and an Access program was developed to provide the County with a simple method of reviewing the data results. Stiff and piper diagrams are prepared to compare water quality data.

**Sarasota County Closed and Active Landfills, Sarasota County, Florida.**

Project Manager for routine and evaluation monitoring studies, including evaluation of historical groundwater, surface water and leachate quality data, and evaluation of potentiometric data. The water quality and potentiometric data are tabulated and plotted for interpretation, including the use of time plots, histograms, and potentiometric maps. Conclusions were drawn regarding adequacy of sampling parameters and frequency along with direction and rate of groundwater flow.

## **Copies of Required Licenses**

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Below are copies of our required Licenses.





Ron DeSantis, Governor

Halsey Beshears, Secretary



**STATE OF FLORIDA**  
**DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

**BOARD OF PROFESSIONAL GEOLOGISTS**

THE PROFESSIONAL GEOLOGIST HEREIN IS LICENSED UNDER THE  
PROVISIONS OF CHAPTER 492, FLORIDA STATUTES

**GUILBEAULT, KENNETH EDWARD**

16802 WOBURN LANE  
LUTZ FL 33549

**LICENSE NUMBER: PG2907**

**EXPIRATION DATE: JULY 31, 2022**

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Ron DeSantis, Governor



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## STATE OF FLORIDA

### BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE  
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

**NUNES, SETH A**

1511 JOHNSON FERRY ROAD  
SUITE 125  
MARIETTA GA 30062

**LICENSE NUMBER: PE69457**

**EXPIRATION DATE: FEBRUARY 28, 2023**

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Ron DeSantis, Governor

Halsey Beshears, Secretary



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DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

**CONSTRUCTION INDUSTRY LICENSING BOARD**

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**NUNES, SETH A**

CARLSON ENVIRONMENTAL CONSULTANTS, PC  
305 SOUTH MAIN STREET  
MONROE NC 28112

**LICENSE NUMBER: CUC1225496**

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