St. Johns River
Water Management District
Michael A. Register, P.E., Executive Director

4049 Reid Street • P.O. Box 1429 • Palatka, FL 32178-1429 • 386-329-4500 • www.sjrwmd.com

DATE: June 27, 2024

TO: Prospective Respondents

FROM: Christina Holloway-Williams, Procurement Specialist

SUBJECT: Addendum 2 to Request for Qualifications 88933, Real Estate Services Environmental Site Assessment Services

As a result of an inquiries received regarding the above referenced solicitation, the following information and documents from the prior awarded solicitation are being provided to all prospective respondents:

1. Who is/are the current contract holder(s)?
   Response: Aerostar SES, LLC and Terracon Consultants, Inc.
2. Please provide copies of the current contract holder(s) winning submittals.
   Response: A copy of the above referenced awarded submittals is attached.
3. Please provide score sheets & comments for all winning submittals.
   Response: A copy of the score sheets and comments for the above referenced awarded submittals is attached.
4. How many contracts does the District intend to award?
   Response: The number of contracts the District intends to award will be two (2).

Please acknowledge receipt of this Addendum on the **Submittal Form** provided in the solicitation package.

NOTE: The Bid Due Date remains **2:00 p.m., Wednesday, July 10, 2024.**

If you have any questions, please e-mail me at chollowa@sjrwmd.com.

The Governing Board of the
St. Johns River Water Management District

Environmental Assessment of District's Lands

RFQ# 35906

Aerostar SES LLC

September 3, 2020

Original

Aerostar SES LLC

September 3, 2020

Carol Miller, Senior Procurement Specialist
ATTN: Office of Financial Services
St. Johns River Water Management District
4049 Reid Street
Palatka, Florida 32177

RE: Request for Qualification Number (RFQ) 35906, Environmental Assessment of District's Land

Dear Selection Committee Members:

Aerostar SES LLC (ASL) is pleased to submit this Letter of Interest in response to the subject RFQ to provide comprehensive environmental assessment and engineering services for the St. Johns River Water Management District (the District). We are confident that this proposal clearly demonstrates our continued ability to provide best in class service to the District. ASL is one of Florida's largest environmental consulting and engineering firms, specializing in environmental site assessment and remediation services since its inception in 1992. During the past 28 years, ASL has developed a professional reputation for excellence with our federal, state, local, public, and private clients, including the District. The ASL team will continue to deliver to the District outstanding professional capabilities and benefits including the following:

- **Specialized experience** executing environmental risk management programs for public sector land acquisition agencies. Having performed over 570 Phase I and II ESA projects in Northeast and Central Florida in the past 5 years, our staff has in-depth understanding of the various technical and regulatory requirements associated with the District's Environmental Assessment Program as well as the local geological site conditions encountered throughout the District's 18-county area.
- **A proven management team** with over 150 years of combined professional experience able to perform turn-key environmental site assessments and remediation operations for public land acquisition programs, and other required tasks such as indoor air quality surveys or demolition services. This team of professionals is strategically located in ASL's Jacksonville and Orlando offices, within a 1.5-hour drive of the District's 18-county geographical area.
- **No learning curve** as ASL has been working with the District on this exact scope of work for the past 15 years. We will provide the same team of professionals, ensuring that all Work Orders will be executed with the level of quality expected by the District.

As Program Manager of ASL, I want to personally thank you for your support the past 15 years and express our continued dedication to the successful performance of this Contract. We will continue to provide the District the same outstanding service and commitment which our business has been built on. We are committed to exceeding your expectations for performance and service and would value the opportunity to continue our win-win relationship with the District.

Sincerely,

Aerostar SES LLC

Frank Redway
Program Manager

3550 St. Johns Bluff Road South • Jacksonville, Florida 32224 • 904-565-2820 • Fax 904-565-2830

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FORMS

SUBMITTAL FORM

Include this form in the response

RESPONDENT:

The undersigned, as Respondent, hereby declares and certifies that the only person(s) or entities interested in this submittal as principal(s), or as persons or entities who are not principal(s) of the Respondent but are substantially involved in performance of the Work, is or are named herein, and that no person other than herein mentioned has any interest in this submittal or in the Agreement to be entered into; that this submittal is made without connection with any other person, company, or parties making a submittal; and that this submittal is in all respects fair and in good faith without collusion or fraud.

Respondent represents to the District that, except as may be disclosed in an addendum hereto, no officer, employee or agent of the District has any interest, either directly or indirectly, in the business of Respondent to be conducted under the Agreement, and that no such person shall have any such interest at any time during the term of the Agreement, should it be awarded to Respondent.

Respondent further declares that it has examined the Agreement and informed itself fully in regard to all conditions pertaining to this solicitation; it has examined the specifications for the Work and any other Agreement documents relative thereto; it has read all of the addenda furnished prior to the submittal opening, as acknowledged below; and has otherwise satisfied itself that it is fully informed relative to the Work to be performed.

Respondent agrees that if its submittal is accepted, Respondent shall contract with the District in the form of the attached Agreement, and shall furnish everything necessary to complete the Work in accordance with the time for completion specified in the Agreement, and shall furnish the required evidence of the specified insurance.

Acknowledgment is hereby made of the following addenda (identified by number) received:

Addendum No.	Date	Addendum No.	Date
1	8/19/2020		

Aerostar SES LLC — Respondent (firm name)

9/3/2020 — Date

3550 St. Johns Bluff Road South, Jacksonville, FL 32224 — Address

fredway@aerostar.net — Email address

Signature

904-565-2820 — Telephone number

Frank Redway, Program Manager — Typed name and title

904-565-2830 — Fax number

Tab 1: Firm's and Subcontractors' Capabilities to Conduct Work as Presented in the Statement of Work

Tab 1. Firm's and Subcontractors' Capabilities to Conduct Work as Presented in the Statement of Work

The following forms are included at the end of this section:

- Certificate as to Corporation Form
- Affidavit as to Non-Collusion and Certification of Material Conformance with Specifications
- Qualifications Form — General
- Subcontractors Form
- Drug-Free Workplace Form

Aerostar SES LLC (ASL) is pleased to submit this proposal in response to the St. Johns River Water Management District's (the District) Request for Qualification (RFQ) Number 35906. This proposal presents our experience, approach, and proven track record in accomplishing the Statement of Work (SOW) provided by the District.

ASL has built our reputation by providing cost effective environmental assessment and cleanup services to public and private sector clients throughout Florida. We are truly North and Central Florida's premier environmental services company. Our growth is directly attributable to our ability to consistently meet our client's needs and expectations. The team of professionals assembled for this contract offers unparalleled expertise and resources aimed specifically at the needs of this contract and will continue to deliver quality and value to the District.

ASL offers the following benefits to the District:

✓	Experienced management team and professional staff who have worked closely with District personnel on this exact scope of work since October 2005. We know and understand the District's mission and business practices. We have continued to incorporate lessons learned on the 108 Work Orders (WO) performed on our previous and existing contracts with the constant goal of improved quality and reduced costs.
✓	A local team of in-house professionals with experience in ASTM E-1527 Environmental Site Assessments (ESAs), site assessments, and remediation projects in accordance with Florida Department of Environmental Protection (FDEP) regulations and standard operating procedures (SOPs). Our reputation for excellence and steady growth has been earned primarily by the successful execution of the types of work listed in your RFQ. Also, our resources are located within a 1.5-hour drive to any District location.
✓	Dedicated internal Geographic Information System (GIS) capabilities with specific relevant skills relating to this work scope. Our personnel have accomplished similar work for the District and other clients located within the District's area of responsibility.

ASL has committed seven of our top senior technical staff and managers Frank Redway, Allyson Charbonnet, PhD, John Hubbard, CSP, LAC, Sarah Riffe, PG, CHMM, Robert Young, PG, Kathy Leggoe, PG, and Paul Fitch, PE, for the duration of this contract. These managers have a combined total of 163 years of experience. All of our senior team members are familiar with the District's goals and business processes, and the completion of ESAs in support of the District's land acquisition program. They have gained additional experience performing 25 ESAs on parcels greater than 300 acres directly for the District.

Our goal is to continue to help the District achieve its primary objective of managing environmental risk/liabilities and providing site characterization and cleanup services required to facilitate land acquisition activities associated with the protection of the St. Johns River watershed.

Proven Experience

The ASL solution delivers professional experience including:

- Experience performing ESAs for the District across your 18-county area of responsibility for over 15 years.
- An in-depth understanding of the various technical and regulatory issues as well as the geological site conditions encountered throughout the District. Our staff has performed 479 Phase I ESAs and 91 Phase II ESAs projects in Florida over the past 5 years (Table 1.1).
- An in-house management team for this contract with over 163 years of combined professional experience performing turn-key environmental site assessment and remediation operations for public land acquisition programs throughout Florida.

"ASL has been very responsible in all aspects of their service including a proven ability to meet stringent deadlines incorporated into many of our client's scopes of work...ASL's technical expertise has assisted us in providing a full range of services to our clients and has been a great partnering firm for us to work with."

Tesfa Abraha, **NAVFAC Southeast**

Table 1.1 Phase I and II ESAs Completed in the Past 5 Years

	2016	2017	2018	2019	2020	Total
Phase I ESAs	130	94	92	77	86	479
Phase II ESAs	25	20	20	15	11	91
Total ESAs	155	114	112	92	97	570

Having worked in all of Florida's environmental remediation programs for 28 years, ASL has extensive experience and a superior reputation with the environmental regulatory staff at the FDEP District level and with the Bureau of Waste Cleanup in Tallahassee. In 2004, ASL was awarded two major multi-year continuing contracts with FDEP including a State Petroleum Cleanup contract with the Bureau of Waste Cleanup and a Combination Environmental Baseline Survey and Environmental Site Assessment Services contact with the Division of State Lands, further demonstrating our experience and superior reputation with FDEP. ASL was again awarded a contract with the Division of State Lands for ESAs in 2013 and three FDEP Petroleum Contamination Site Response Action Services contracts in 2014, providing further testament to our reputation with state regulatory agencies. Having worked in these programs since their inception, we are familiar with regulations governing underground storage tanks and their associated contamination.

"I have engaged the services of ASL on many occasions both as a developer, client representative and board member of the Clay County Chamber of Commerce....I have worked with many of their scientists and engineers and found them to be very professional and extremely easy to work with."

Van Royal, Clay County Economic Development Council

This proposal demonstrates ASL's extensive experience and capabilities in the following three main tasks outlined in the District's RFQ SOW:

SOW TASK A: Completion of Environmental Site Assessments (ESAs)

This includes conducting Phase I ESAs for land acquisitions following the latest ASTM Standard E-1527 and the US Environmental Protection Agency's (EPA) All Appropriate Inquiry Rule (40 CFR Part 312). Phase II, III, and IV ESAs may also be included depending on the results of the Phase I ESA and at the discretion of the District and the Seller of the land.

SOW TASK B: Environmental Sampling of Soil, Sediment, Groundwater and/or Surface Water

All work under this task will follow current FDEP SOPs and include data review, reports, and results evaluation using appropriate FDEP and EPA guidelines. We understand that all sample locations will be recorded with a Global

Positioning System (GPS) and reported in Universal Transverse Mercator (UTM) coordinate system using the North American Datum of 1983 (NAD83) based upon the High Accuracy Reference Networks (HARN) surveys.

SOW TASK C: Other Environmental Assessment Tasks

At the direction of the District's Project Manager, other environmental assessment tasks may include feasibility studies, human health and ecological risk assessments, environmental health studies, environmental health and safety plans, environmental remediation activities, lead and asbestos surveys, and air quality monitoring.

A. Knowledge of Current ASTM E1527 Standard and the EPA All Appropriate Inquiry Rule (40 CFR Part 312)

SOW TASK A: Completion of Environmental Site Assessments

ASL has proven technical approaches and resources in place to successfully perform all the scope of services required under the District's SOW. ASL's success in providing ESA services in Florida over the past 28 years is the result of our emphasis on understanding the requirements, and accomplishing the work while exceeding our client's expectations. We continue to develop and expand an in-house group of motivated professionals with extensive knowledge of EPA and FDEP statutes and regulations. The personnel who will be working on this contract are experienced in implementing the requirements of ASTM Standard E1527-13, EPA's All Appropriate Inquiry (AAI) Rule, CERCLA, and all other applicable environmental assessment standards and regulations. Many of these individuals are working on our current District Contract.

Knowledge of ASTM Standard E1527-13

ASL is very familiar with the AAI rule and we have been completing Phase I ESAs to the same standards since before the AAI rule was promulgated formally in November 2006 and recently revised and incorporated into ASTM E1527-13 in December 2013. Over the past five years, ASL has completed more than 450 Phase I ESA projects. We have a well-defined internal training program and technical approach to performing ESA work in accordance with ASTM E1527-13 guidelines. Our proven expertise and knowledge of this standard is reflected in the amount of business we accomplish for repeat clients. Over 90% of our ESA work comes from existing clients or referrals.

Kick-off Meeting

If required, ASL coordinates project kick-off meetings at the District's office, with subsequent project planning meetings conducted by teleconference or on site. ASL understands that after an ESA Work Order is issued, an initial on-site meeting of stakeholders may be desired. During the kick-off meeting, a preliminary partial site walk over is conducted and future logistic issues (gate keys, access, requirements for special equipment, etc.) are discussed.

Review Existing Background Information

ASL reviews site background information and preliminary data provided by the client and/or other sources prior to conducting the site inspection. An environmental regulatory database search report is obtained from Environmental Risk Information Services (ERIS). Information provided in the environmental regulatory database search report is reviewed prior to visiting the site in order to verify the accuracy of the information and to identify unmapped sites with the potential to negatively impact the subject site. Prior to the inspection, a series of current and historical aerial photographs of the site and surrounding properties are reviewed. Reviews of existing Soil Conservation Service surveys and USGS periodicals for soil type and groundwater characteristics, and topographic maps for general topography are also performed.

Environmental Regulatory Database Search and Records Review

ASL obtains an environmental regulatory database report of the following databases to help determine if hazardous sites or significant local environmental contamination problems may exist on or immediately adjacent (see radius specifications) to the subject site:

- Federal National Priorities List (1 mile radius);
- Federal Delisted National Priorities List (0.5 mile radius);
- Federal Superfund Environmental Management System (SEMS) [former Comprehensive Environmental Response, Compensation and Information System (CERCLIS) list] (0.5 mile radius);
- Federal CERCLIS NFRAP list (0.5 mile radius);
- Federal RCRA CORRACTS list (1 mile radius);
- Federal RCRA Generators list (property and adjoining properties only);
- Federal institutional control/engineering control registries (property only);
- Federal ERNS list (property only);
- State and tribal equivalent NPL (1 mile radius);
- State and tribal equivalent CERCLIS (0.5 mile radius);
- State and tribal landfill and/or solid waste disposal site lists (0.5 mile radius);
- State and tribal equivalent Leaking Underground Storage Tank (LUST) list (0.5 mile radius);
- State and tribal registered storage tank lists (property and adjoining properties only);
- State and tribal institutional control/engineering control registries (property only);
- State and tribal voluntary cleanup sites (0.5 mile radius); and
- State or tribal Brownfield sites (0.5 mile radius).


Historical Aerial Photograph

The ASL team includes one of the nation's best known and most respected database providers, ERIS. We have worked extensively with ERIS for several years, thus bringing a level of familiarity to the review of regulatory information. The database reports provided by ERIS allow us to more cost-effectively obtain information on known sources of contamination on or adjacent to the subject site. Our experienced team of geologists and engineers are utilized to help make the appropriate determinations of potential impacts to the site from on-site and off-site sources.

Regulatory database information is also used to determine if additional regulatory records or files pertaining to environmental compliance or enforcement may be available. As standard company practice, ASL conducts a review of reasonably obtainable federal, state, and local records pertaining to existing and potentially contaminated sites including site investigation reports, discharge notification forms, remedial action plans, tank closure reports, landfill permits and closure documents, UST registrations, RCRA generator and permit files, spill response and incident reports, and any other records which document known or potential sources of contamination. The revisions to ASTM 1527-13 indicate if a subject property or adjoining property is identified in any of the standard environmental records sources, an agency file review must be conducted to evaluate the facility's listing or the Environmental Professional must provide reasoning on why the file review(s) was not conducted and then state their opinion on how this may or may not affect the results of the report. ASL's corporate policy has always required that file reviews be performed for both the subject site and adjoining properties. We have found that regulatory files contain a wealth of information pertaining to the environmental conditions of an area. This is a value-added risk management tool we provide for all our ESA clients.

In addition to the regulatory database and file reviews, ASL determines if previous ESAs have been performed for the subject site. If available, ASL reviews those reports and evaluates the results and recommendations of any previous studies.

ASL will evaluate whether radon, asbestos, or lead-based paint surveys may be required if buildings or structures are present on site. The need for such testing will depend on the building or structure's future use, and whether they will be demolished or renovated. ASL is a State of Florida Licensed Asbestos Consulting Business and has the in-house capabilities to address any hazardous materials or indoor air quality issues. We also maintain the appropriate certifications to perform radon and lead-based paint surveys.

Review of Property Abstract and Site History

Another key element in identifying potential environmental issues is a careful review of the history of the site and adjacent properties. A site history review is conducted to help establish what types of activities were previously conducted on the property. Standard historical sources that are reasonably ascertainable, such as fire insurance maps, USGS topographic maps, historical aerial photographs, city directories, and building department records, are reviewed. If available, copies of historical aerials photographs, Sanborn Fire Insurance maps, and topographic maps are included in all ASL ESA reports. While ASL usually orders a 50-year chain-of-title for each parcel, the District typically supplies the title search for ESAs performed under this contract. Once obtained, we identify prior ownership; all easements; leases for oil, gas, minerals, lumber/timber, and turpentine; agricultural uses; and other uses, restrictions, reverters, covenants, and right-of-ways for roads, railroads, and utilities. A history of ownership is summarized in the report in chronological order from the earliest instrument to the latest instrument listing all parties in the instrument, type of instrument, and official record book and page number for each instrument. The chain-of-title is also used to provide information concerning the presence of federal, state, and local environmental cleanup liens.

Interviews

The interview process is an important part of the environmental due diligence process. Interviews are crucial in obtaining information concerning past site uses. In order to maintain consistency, ASL utilizes an interview form that is followed by all of our auditing personnel. Our auditors are also skilled interviewers and know the appropriate methods for asking questions and obtaining the correct information. A large portion of our experience with public sector real estate acquisitions is within the eminent domain process. In condemnation situations, site owners are often reluctant to discuss the property with the site auditor. By using our customized interview form, ASL ensures that all information is collected in one interview. Interviews are conducted with current and former property owners and facility operators, their employees and neighboring landowners, when available. ASL also understands that attempts to interview neighboring properties is an ASTM guideline when the subject property is abandoned and contact with appropriate site owners or site representatives is not available. We also interview various local agency representatives, including the local fire department, health department, and solid waste department, regarding site history, unique features, historical or archaeological sites, fire history, and grazing and timbering history. We have found that local knowledge of past dumping activities is often obtained through proper use of the interview process with local officials. Finally, as part of the AAI requirement, ASL also supplies a one-page "User" Questionnaire for the District to complete.

Site Inspection


Phase I ESA for a District site

One of the most critical elements of any ESA is the site inspection. The quality of the site inspection is directly dependent on the experience of the site auditor. ASL's proposed Project Manager, Sarah Riffe, is assigned to this contract because of her more than 13 years of experience performing large acreage ESAs. Our auditing specialists have the necessary experience and qualifications to be able to identify and assess recognized environmental conditions associated with a site. ASL's auditors are multi-faceted professionals with degrees in geology, engineering, biology, chemistry, or other applicable science degrees. They are also cross-trained in the other service areas required under your RFQ.

The environmental auditing specialist conducts a site visit and walk through of the property, making every attempt to view and inspect the entire property. Many times dense vegetation, standing water, or other site obstructions make access difficult. If site access is obstructed, ASL identifies inaccessible areas in our reports, as well as verbally informs the District of areas that were inaccessible to the site auditor. Site inspections are performed by walking accessible areas of the site and through the use of an all-terrain vehicle, truck, boat, plane, helicopter, or drone, as needed. If an aerial inspection is utilized, all items of concern noted during the aerial survey will be ground-truthed. Project planning meetings and/or phone calls are a critical element in determining if all-terrain vehicles or aircraft are necessary for a complete site inspection.

Our site inspections are not limited to the property under consideration, but the adjacent properties are also inspected based on legal access. Site plans and topographic maps are also reviewed, where available. The site inspection includes an inventory of former chemical usage and waste generated on the site; information on aboveground and underground storage tanks; available SARA Title III reporting information; information on underground utilities (e.g., sanitary sewer system) serving the property; environmental permitting information and permits from local, state, or federal agencies; engineering reports and surveys relevant to environmental issues; records of claims, litigation, spills, noncompliance, complaints, etc., related to environmental practices; environmental monitoring data, including groundwater and soil testing, local geology and hydrogeology in the vicinity of the site; and data on electrical equipment containing polychlorinated biphenyl (PCB) fluids. All man-made improvements, debris, mounds, trash piles, stressed vegetation, or similar features or deposits that may indicate old dump sites, sink holes, ravines, right-of-ways, edges of fields, watercourses, and pertinent environmental features are inspected and digitally photographed for inclusion in the report. The location of any areas of concern identified during the site inspection are surveyed via GPS, marked on an aerial photograph or map, numbered, and described in the ESA report.

Report Preparation

When the inspection, data collection, and review tasks are complete, a report is prepared documenting our research, on-site inspections, results of the ESA, and other findings. Our reports have consistently been praised by lawyers, bankers, and real estate professionals as being the most concise, comprehensive, and user friendly reports in the industry. Having performed more than 100 ESA projects for the District over the past 15 years, we have developed and will continue to use the report format that is specific to your needs. Our report provides an overall assessment of the property and identifies any Recognized Environmental Conditions (REC), as defined by ASTM 1527-13. The identification of RECs is the core of the ESA process, and an area for which ASL has significant experience.

In addition to RECs, ASL's reports identify the existence of Controlled Recognized Environmental Conditions (CRECs) and/or Historical Recognized Environmental Conditions (HRECs) as defined by ASTM 1527-13.

The current ASTM 1527-13 standard also introduced vapor intrusion as a potential impact (or recognized environmental condition) to the subject site. ASL evaluates the potential for vapor migration into on-site buildings and onto the subject site in the same manner that contaminated groundwater migration is evaluated during a Phase I ESA investigation. The evaluation for vapor migration is performed following the guidelines provided in ASTM E2600-15, Standard Guide for Vapor Encroachment Screening.

For all ESA Work Orders we perform, ASL provides the original color copy of the environmental assessment report to the District and any additional hard copies as listed in the Work Order. Digital copies of the report, including all maps, are also provided on compact disks. All reports are reviewed, approved, and certified by an ASL Professional Engineer or Professional Geologist licensed in the State of Florida. Resumes of the individuals who performed and reviewed the report are included in order to document appropriate levels of training and experience of the environmental professionals.

Performing Updated Environmental Assessments

Due to the extended timeframes required to complete the various activities associated with the closing of a real estate transaction, Phase I and II ESA reports may often require updating and recertification. Current ASTM standards require that a Phase I ESA be updated within 180 days of the original report date. According to the AAI rule, after one year of elapsed time between the Phase I ESA, a new report is required. Any updates of the original ESA will include a field inspection and recertification of the report. Any significant changes to the site or surrounding area or new recognized environmental conditions will be addressed in the updated ESA report. ASL is often called upon to conduct Phase I ESA Updates for projects we have completed ourselves, and for reports prepared by others.

"ASL has been very responsible in all aspects of their service including a proven ability to meet stringent deadlines incorporated into many of our client's scopes of work. ASL's staff has been helpful, accessible, and responsive to our questions and needs. ASL's technical expertise assisted us in providing a full range of services to our clients and has been a great partnering firm for us to work with."

David Dunkley, Jacksonville Aviation Authority

B. Experience Conducting Phase I ESAs on Large Parcels of Land (>300 Acres)

Our proposed technical approach and methods are based on providing ESA and environmental cleanup services throughout Florida for over 28 years. Over the past 5 years, we have completed over 450 Phase I ESAs on sites ranging from 0.25 acres to over 10,000 acres for agricultural, industrial, residential, commercial, and undeveloped properties. Since October 2005, ASL has performed 25 Phase I ESAs on sites in excess of 300 acres totaling 43,251 acres (Table 1.2) for the District. ASL's ESA experience with large parcels of land eliminates the learning curve, thus providing continuous, seamless integrated services to the District.

Table 1.2 SJRWMD Phase I ESAs Greater than 300 Acres from October 2005 – September 2020

W.O. #	Project Description	Total Acres
02	Kings Road/Logan Property Phase I ESA	2,470
10	Joshua Creek Phase I ESA	4,569
16	Bull Creek Limited Phase I ESA	6,200
18	Corrigan Phase I ESA and Soil Assessment	450
23	Geiger Property Phase I ESA	439
26	Yarborough Ranch Phase I ESA	5,040
32	Corrigan update Phase I ESA	450
04	Rybolt Property Phase I ESA	710
06	Hart Property Phase I ESA	1,575

Table 1.2 SJRWMD Phase I ESAs Greater than 300 Acres from October 2005 – September 2020		
W.O. #	Project Description	Total Acres
11	Clonts Property Phase I ESA	3,200
14	West Augustine Property Phase I ESA	565
16	BJ Bar Ranch Phase I ESA	5,100
22	301 Land Investments, LLC Phase I ESA	378
25	301 Land Investments, LLC Parcel B Phase I ESA	823
01	Lukas Ranch Phase I ESA	1,191
02	Fellsmere Joint Venture Parcel D Phase I ESA	520
05	Bear Track Bay Property Phase I ESA	705
07	Clark Bay Addition Property Phase I ESA	312
08	Little Cameron Ranch TSP, Limited Phase II ESA	861
02	Heather Island Property Phase I ESA	322
03	Rainey Exchange Property, Phase I and II ESA	715
07	Silver Springs Forest Phase I ESA	4,836
15	Sun Land Citrus Phase I ESA	596
5	Lake Denham Muck Farm Phase I and II ESA	768
16	Lagemann Avick Property Phase I ESA	456
TOTAL		43,251

Below are examples of large scale ESAs completed by ASL.

Lake Denham Muck Farm, Phase I and II ESA	Lake County, Florida
768 Acres	Contract No. 32044, Work Order No. 05
ASL completed a Phase I and II ESA of seven contiguous parcels of former agricultural and submerged lands totaling approximately 768 acres in Lake County, Florida. The Phase I ESA was completed in general accordance with ASTM Standard E 1527-13 and 40 CFR Part 312. Challenges presented in this project included the evaluation of numerous parcels over a large geographical extent with limited access to remote areas of the site due to woods, submerged lands, and drainage canals. ASL coordinated with the District to prioritize a scope of work to best address the concerns identified at the site. On-site concerns were noted from the former agricultural use of the site, former underground and aboveground petroleum product storage, and the improper use and storage of petroleum products observed around the site. Based on the results of the Phase I ESA, ASL performed Phase II ESA and Additional Phase II ESA activities which included sediment sampling, soil boring advancement, soil sampling, monitor well installation, and groundwater sampling. ASL also worked with the client to develop a suitable and cost efficient sampling plan to assess the soil and groundwater in the former muck fields over a large geographic extent.	

Lagemann Avick Property, Phase I ESA	Brevard County, Florida
456 Acres	Contract No. 32044, Work Order No. 16
ASL is completing a Phase I ESA of an approximate 456-acre parcel of grassy and submerged land in Brevard County, Florida. The Phase I ESA will be completed in general accordance with ASTM Standard E 1527-13 and 40 CFR Part 312. The site was undeveloped and access to the site was not available by land vehicle. ASL coordinated with the District who provided access to the site via airboat.	

Heather Island Property, Phase I ESA	Marion County, Florida
322 Acres	Contract No. 27955, Work Order No. 02
ASL completed a Phase I ESA of an approximate 322-acre parcel of partially wooded and submerged land in Marion County, Florida. The Phase I ESA was completed in general accordance with ASTM Standard E 1527-13.	

The site was undeveloped and access to the site was not available by land vehicle. ASL coordinated with the District who provided access to the site via airboat. ASL reviewed multiple previous ESAs provided by the District on surrounding properties as part of this assessment. No evidence of RECs was identified in connection with the property.

Silver Springs Forest, Phase I and II ESA	Marion County, Florida
4,836 Acres	Contract No. 27955, Work Order Nos. 07, 08

ASL completed a Phase I ESA of an approximate 4,836-acre property consisting of 13 contiguous parcels in Silver Springs, Marion County, Florida. The site was wooded land developed with unpaved trail roads, a pole barn, hunting structures, and a power transmission line. The site inspection was completed by two ASL project scientists over a period of three days. Challenges presented in this project included evaluation of multiple parcels of heavily wooded land over a large geographical extent, which required review of an extensive chain of title and numerous property record cards. One off-site concern was noted from a petroleum storage facility located on an adjoining property. At the request of the District, ASL prepared and submitted a scope of work and cost estimate for a limited Phase II ESA. ASL worked closely with the District to overcome challenges presented by the heavily wooded terrain including access for drilling machinery. ASL was able to remobilize to the site within one week of the initial sampling attempt allowing the District to avoid delays to the closing schedule for the transaction.

Little Cameron Ranch, TSP and Limited Phase II ESA	Seminole County, Florida
861 Acres	Contract No. 26975, Work Order Nos. 08, 09

ASL completed a TSP of an approximate 861-acre property consisting of 30 contiguous parcels in Sanford, Seminole County, Florida. The site was undeveloped partially wooded land. The TSP was completed in general accordance with ASTM Standard E 1528-14 for Transaction Screening Processes (TSPs) to determine if contamination assessment activities were warranted based on any past land uses prior to the conversion of the property into a constructed wetland. On-site and off-site concerns were noted relating to a possible on-site cattle dipping vat and off-site agricultural activities. At the request of the District, ASL prepared and submitted a scope of work and cost estimate for a Limited Phase II ESA. Phase II ESA activities performed at the site presented many access constraints and ASL worked with the District to prioritize a scope of work to best address the concerns given the conditions encountered.

Rainey Exchange, Phase I and II ESA	Marion County, Florida
715 Acres	Contract No. 27995, Work Order Nos. 03, 04

ASL completed Phase I and II ESAs of approximately 715 acres of partially wooded land in Marion County, Florida. The site was developed with a dilapidated hunt camp structure and an open shed structure. The Phase I ESA was completed in general accordance with ASTM Standard E 1527-13. On-site concerns were noted from stained soils observed in the open shed structure and a vessel of unknown origin located on the southwestern portion of the site. Off-site concerns were also noted from a UST facility formerly located on the southwestern adjoining property. Based on the results of the Phase I ESA, ASL performed a Phase II ESA which included an interim source removal of oil-stained soils, and collection of confirmation soil and groundwater samples. Additionally, ASL advanced two temporary shallow wellpoints along the southwestern property boundary and collected groundwater samples to address potential off-site impacts to the site. Laboratory analyses confirmed no impacts to the site remained from the oil stained soils. Additionally, no impacts to the soil or groundwater were detected at the property boundary in the selected locations.

Large Parcel ESA Project Management


Helicopter Used for Site Flyover

Our proposed management team is very experienced in budgeting large parcel ESAs and determining the best approach to cover the most important areas in the most efficient manner. ASL's track record of accurately estimating costs for the 108 awarded District Work Orders has prevented later scope modifications and increased budget. Of particular importance on large area parcels is following logging and hunting trails to find dead-end dumping, and observing adjacent properties for unauthorized dumping or spills. Because some large acreage ESAs sometimes include inaccessible areas, ASL can subcontract helicopter or drone services to reduce limitations to the assessments and provide the District with reliable data to make informed project decisions.

Another practice that ASL employs is to document the track of the site walk-over (fly-over) using GPS units. This is also helpful when tying photo-documentation to specific areas of concern such as cattle dip vats, drum storage or dumping areas, or "maintenance" areas at the end of logging trails. Ultimately, there is digitally recorded geocoded evidence of what areas were covered which is added to the report.

Quality of Service

ASL also maintains a robust Quality Assurance and Quality Control (QA/QC) program that supports large acreage ESAs. This includes a full review cycle to ensure each report is of the highest quality and accuracy. Our Program and Project Managers hold the ultimate responsibility for quality control of the work performed by ASL and the project team. ASL's commitment to quality is evidenced by and documented in our Quality Management System (QMS) Manual which complies with ISO 9001:2000 guidelines. Because of the variety of projects conducted, our corporate QA program is flexible and easily adaptable to the specific scope of each District project. The QMS documents how ASL implements the QA process on a company-wide basis. It addresses the roles, responsibilities, and mechanisms for accountability within the organization. The QMS establishes project-related policies, procedures, standards, training, and guidelines aimed at producing the desired level of quality (projects and/or deliverables), including special controls, processes, skills, or other required resources.

ASL performs all Phase I ESAs in accordance with ASTM Standard E1527-13 and 40 CFR Part 312. Our Phase I ESA reports can be tailored to address non-ASTM scope items such as the presence of asbestos, radon, or lead-based paint. We have in-house capabilities to address any REC to the District's satisfaction. ASL maintains a proven track record for superior performance, as evidenced by the many long-term relationships we have with our existing clients. We understand the technical issues as well as the challenges and nuances associated with the completion of a complex real estate transaction.

C. Experience Using Global Positioning System (GPS) and Mapping in Universal Transverse Mercator (UTM) Coordinate System Using NAD 83 based on HARN

ASL has extensive experience with GPS and mapping in the UTM coordinate system, and regularly employs these tools in a variety of applications. We understand differences between World Geodetic System (WGS) 84 and North American Datum (NAD) 27 or NAD 83 can be as much as 200 meters; therefore, it is critical to ensure our project team knows which reference base datum is being used and always set the GPS unit's datum to match the datum of the map we are using. On a USGS topographic map the datum information is in the fine print at the bottom left of the map. If not in NAD 83, there may be information on how many meters to shift a position to convert it to NAD 83. The application of GPS in the services that ASL provides is extensive. We typically use Garmin™ and

Magellan™ hand-held units and the Avenza Maps® mobile phone application for general field work. However, when a higher level of location accuracy is required, we use differentially corrected sub-meter Trimble units.

Navigation during the site reconnaissance of a large-acreage ESA in a remote area can be challenging. Ms. Sarah Riffe, Project Manager, and our ESA Team are very familiar with using GPS technology to increase the efficiency and accuracy of navigation during the reconnaissance. Prior to the field visit, aerial photographs of current and historical site conditions are georeferenced in ArcGIS and reviewed for potential environmental concerns. The series of aerial photographs is then uploaded into the Avenza Maps application and the field crew can easily navigate to points of interest and determine their location on historical imagery in real time.

Documentation of waypoints and sampling locations is also critical to the successful completion of Phase I and II ESAs. All waypoints on our large-acreage ESA work are mapped using GPS technology. Our ESA team have successfully used GPS to collect, integrate, and present site data. During large acreage Phase I ESAs, we locate and use GPS waypoints to mark and define locations of features identified in the field. GPS track maps are downloaded in UTM coordinates and overlaid onto color or infrared aerial images in a GIS project.

Data collected in the field via hand held GPS units is typically imported into GIS software tools. We can then use our GIS expertise to map environmental, regulatory, and historical land use data collected for each site. As an example, ASL performed an ESA for over 500 parcels of land located in downtown Jacksonville. In order to compile and analyze the information collected, ASL created an Access database application which was linked to the City's GIS. The use of a database allowed the City of Jacksonville to include the data in the overall city-wide GIS system, and made the information collected readily available to all departments within the city, as well as the public. Using GIS for all project data results in a complete and consistent database that supports all of the project stakeholders. GIS can also be an exciting, effective public involvement tool if public meetings are required as part of the land acquisition process.

D. Experience Performing Environmental Sampling in Accordance with FDEP SOPs

SOW TASK B: Environmental Sampling of Soil, Sediment, Groundwater, and/or Surface Water

This section specifically addresses our approach and experience in the areas of sampling soil, sediment, groundwater and/or surface water. All work performed under this task will follow current FDEP SOPs, and will include data review, reports, and result screening using appropriate FDEP and EPA guidelines.

ASL has performed Phase II ESAs, site investigations, and remediation of commercial, industrial, and undeveloped property for public sector agencies and private entities throughout Florida. The FDEP SOPs are our basic guidance for all sampling related work. Our field activities are conducted in strict adherence with FDEP SOPs, as described in FDEP SOP-001/01. ASL is a leader in the use of innovative approaches to conduct expedited Phase II ESA and site investigations. We have performed over 400 projects related to this aspect of your SOW over the past five years (Table 1.3).

Table 1.3. Number of Similar Projects Initiated						
Project Type	2016	2017	2018	2019	2020	Total
Phase II ESA	25	20	20	15	11	91
Contamination Assessment	37	33	25	23	23	141
Soil/Groundwater Testing	18	17	16	29	15	95
Remediation/Source Removal	22	12	15	12	21	82
Total	102	82	76	79	70	409

Standard Methodologies for Phase II ESAs

Based on our 28 years of corporate experience performing site assessments, ASL has also standardized the performance of our Phase II ESA operations, which includes the following elements:

- Focus the field work on areas most likely to be an environmental concern.
- Limit the field work to only those items necessary to identify adverse site impacts.
- Communicate with the District to establish a scope of work that when completed, will provide sufficient information to support your decision-making.

Field tasks include:

- Installing temporary monitor wells using manual or direct-push methodology.
- Surveying relative top-of-casing elevations, measuring depth to water, and determining relative groundwater table elevation and groundwater flow direction.
- Sampling soil in accordance with FDEP SOP FS 3000.
- Sampling groundwater in accordance with FDEP SOP FS 2200.
- Sampling surface water in accordance with FDEP SOP FS 2100.
- Sampling sediment in accordance with FDEP SOP FS 4000.
- Screening soil samples with an Organic Vapor Analyzer (OVA) in accordance with Chapter 62-780, FAC.
- Performing site assessment and remediation in accordance with Contaminated Site Cleanup Criteria Chapter 62-780, FAC.
- Analyzing samples for appropriate indicator constituents which reflect historical site activities.
- Using non-intrusive investigation methods such as geophysical surveys, including terrain conductivity, resistivity, magnetometer, or ground-penetrating radar where feasible and appropriate.
- Preparing a report that describes the work performed, observations, findings, and recommendations based on the conditions encountered, the results of all field screening and laboratory analytical data, and soil boring and monitoring well construction details.

All Phase II ESA projects are directed by an in-house licensed Florida PG. Kathy Leggoe, PG is our proposed Environmental Sampling Team Leader and has over 19 years of experience performing site assessments in Florida. She will be responsible for developing an appropriate scope of work, implementing proper field sampling activities, and signing and sealing of the Phase II ESA report.

ASL also performs its site assessment work with a keen understanding of the Risk-Based Corrective Actions (RBCA) identified in Rule Chapter 62-780, FAC. Chapter 62-780, FAC identifies required time frames for providing notification and reporting if contaminants of concern are discovered. ASL has performed hundreds of site assessments and cleanup actions based on Chapter 62-780, FAC, including sites for the District.

Site Assessments

ASL has completed hundreds of projects involving field data collection, including sampling groundwater, surface water, soil, sediments, and gaseous materials; performing on-site laboratory analyses; surveying site features and groundwater table elevations; interpreting and reporting data; and negotiating No Further Action (NFA) orders to

achieve final regulatory closure at a variety of sites. In fact since 2009, we have performed over 1,000 contamination assessments, Phase II ESAs, or soil and groundwater sampling events. The projects have varied in size from 1,000 square feet to projects that have entailed over 2,500 soil and groundwater sampling locations, and ranged in complexity from undeveloped land to EPA CERCLA sites. We have the in-house staff and expertise to perform data assessments and modeling of contaminant levels to evaluate whether the applicable cleanup or natural attenuation levels will be obtained within the projected time frame. ASL maintains up-to-date copies of all FDEP and EPA SOPs and conducts training for our staff involved in field sampling operations.

Initial Site Evaluations

ASL realizes the importance of collecting accurate and dependable initial site information. This information is crucial in prioritizing sites for assessment and cleanup operations, realizing that resources and funding are limited. Initial site information and data collection goals are also very important in developing a technically sound and cost-effective approach and sampling plan.

ASL has coordinated file reviews, conducted telephone interviews with the site owner or operator, and acquired as-built site plans from site owners in order to conduct an efficient and cost-effective site assessment. With our thorough knowledge of state regulations, policies, and sampling procedures, we are able to visualize the available alternatives and collect information more efficiently, resulting in reduced costs and time required for subsequent investigating and remediation tasks. ASL's approach to this important preliminary data collection phase is crucial to making sound recommendations for possible continued site investigations. This phase of the project is also instrumental in forming good relations with site owners and operators by briefing them on our plans for the site, reviewing possible operational impacts, and determining the optimum approach and schedule for any additional site work.

Over the past 28 years, ASL has performed contamination assessments at contaminated sites utilizing various innovative assessment approaches that allow for a more cost-effective, timely site characterization. Our extensive knowledge of Chapter 62-780, FAC, contaminated site cleanup criteria, and our ability to evaluate applicable remedial options allows us to design our site assessment activities to collect the necessary data needed to meet all FDEP regulatory objectives.

SOW TASK C: Other Environmental Assessment Tasks

This subsection addresses potential Task C SOW items, based on the direction of the District's Project Manager, which may include feasibility studies, human health and ecological risk assessments, environmental health studies, environmental health and safety plans, environmental remediation activities, lead and asbestos surveys and air quality monitoring.

Feasibility Study

ASL conducts feasibility studies to evaluate a range of remedial options, identifying those that will best achieve the District's objectives in an efficient and cost-effective manner and in compliance with applicable regulatory requirements. For example, ASL completed a feasibility study as part of the remedial investigation of the Compton Harris small arms firing range for the District. ASL's approach to segregation, physical removal of lead particles, and chemical stabilization of lead-impacted soil resulted in an estimated cost savings of approximately $100,000 versus conventional disposal methods. ASL's experience conducting feasibility studies includes a remedial investigation and feasibility study of former incinerator sites where we assisted in the design of a remedial investigation and feasibility study Work Plan to address contaminants for ash at two former incinerators and two disposal sites in Jacksonville. The Work Plan included sampling protocols to address dioxins, volatile and semi-volatile organic compounds in the soil, groundwater, surface water and sediments. ASL also completed remedial investigation and feasibility studies at two former Nike missile launch sites investigating various areas of concern

identified during CERCLA Remedial Investigations performed by ASL. ASL collected data necessary to adequately characterize the sites for the purpose of developing and evaluating effective remedial alternatives.

Ecological and Human Risk Assessments

ASL stands ready to assist the District staff in evaluating ecological and human risk assessment alternatives for any site. The ability to produce technically sound and legally defensible risk assessments has never been more important than in today's regulatory environment. The combined impacts of increased regulatory scrutiny, restrictive standards, and increasing public interest and involvement place a premium on the highest technical scientific quality and most modern, innovative, and realistic approaches to evaluating the potential for adverse human health or ecological effects.

Environmental Health Studies

ASL conducts environmental health studies to address the physical, chemical, and biological factors external to a person and to assess the controlling factors in the environment that can potentially affect human health. ASL's in-house Industrial Hygiene/Environmental Health and Safety Department also has the full capabilities to assess potential environmental health concerns associated with indoor air quality (IAQ), mold, and Volatile Organic Compounds (VOCs) exposure.

Environmental Health and Safety Plans

At ASL, significant time is dedicated to ensuring that all projects are completed safely and meet our high standards of quality. Our first priority is always safety for the general public, our staff, and subcontractors. Project safety is achieved by assigning experienced and certified personnel to operate under our corporate standard operating health and safety associated with procedures. All field personnel receive training and are included in our medical monitoring program in accordance with 29 CFR 1910.120. ASL's site specific health and safety plans are reviewed by an on-staff Certified Industrial Hygienist to ensure safe field operations. Tailgate safety meetings are held on site prior to the initiation of each day's field activities. Safety audits are also performed to assure compliance with ASL's corporate and project specific health and safety procedures and to make improvements in the overall program. Contact telephone numbers for local fire and police departments and utility companies are incorporated in the Health and Safety Plan (HASP) in the event of an emergency. The primary objective of this plan is to prevent physical and chemical exposure, prevent accidents, and prevent the spread of contamination to on-site personnel. The HASP is an integral part of each investigation and is important to ensure all personnel are aware of the known hazards at a project site and their responsibilities to avoid those hazards.

Environmental Remediation

ASL has the in-house engineering design and remedial construction expertise to address the full range of contaminants and types of remediation projects that may be encountered. Some of the services we provide include obtaining approvals and permits, preparing and negotiating remedial action plans and risk based corrective actions, performing source removals, removing and closing storage tanks, completing confirmation sampling activities, developing bid documentation, performing site remediation activities, implementing institutional controls, and obtaining NFA or Site Rehabilitation Completion Orders. We are truly a turn-key assessment and remediation contractor.

Lead and Asbestos Surveys and Indoor Air Quality Expertise

ASL maintains in-house capabilities to provide lead and asbestos surveys, and to address Indoor Air Quality (IAQ) issues including radon. ASL is a Licensed Asbestos Consulting Business (License #ZA455) in the state of Florida. We have performed asbestos surveys, developed Operation & Maintenance (O&M) plans and abatement specifications, and performed asbestos abatement oversight operations specifically for public agency land

acquisition projects throughout Florida. We have completed over 200 asbestos and lead-based paint projects over the past 5 years; many of them are for municipalities and public agencies.

ASL has performed several pre-demolition asbestos and lead-based paint surveys for the District including two sites in the Lake Apopka area and one in Green Cove Springs. ASL also has available an in-house Industrial Hygiene/Environmental Health and Safety Department that specializes in identifying and addressing IAQ issues such as radon and mold. We also maintain a State of Florida Mold certification. Our staff maintains the appropriate OSHA and EPA certifications required to perform lead-based paint testing and IAQ assessments. We also maintain in-house field screening equipment required to perform all IAQ services to include X-ray Fluorescence (XRF) detectors, OVAs, sampling pumps, scopes, sampling canisters, etc.

Subcontractor Capabilities

The following provides an overview of our primary teaming partners. We have worked with these firms extensively throughout our years of operation.

Ecological and Human Risk Assessments

Hazardous Substance & Waste Management Research, Inc. (HSWMR) is an environmental and toxicological consulting firm, established in 1985, which specializes in providing professional services directed toward solving environmental contamination problems and addressing related issues involving potential chemical exposure. HSWMR is Florida based, and has worked with various Water Management Districts advising on high profile ecological risk issues. The firm has extensive experience and research capabilities in the technical, scientific, and regulatory aspects of chemical effects and hazards management. The staff of HSWMR has worked extensively in a variety of industries, as well as regulatory and health agencies at the federal, state, local, and international levels concerning problems associated with the management of hazardous waste and hazardous substances, as well as with the assessment and remediation of contaminated sites. ASL has worked with HSWMR on high profile, Florida-based risk assessment projects.

Due Diligence Support

ERIS is recognized as an industry leading regulatory database information providers, using state-of-the-art online distribution technology for timely data delivery. They also bring advanced GIS capabilities for quality mapping; innovative software to provide fast, flexible report analysis; and the ability to focus on specific areas of Florida for managing unique data sets. This will allow for the customization of database reports to the exact specification of the District.

Security First Title Resource is a title search services provider. For over 29 years, Security First Title Resource has been a leader Title Search company that specializes in residential and commercial Title Research for the environmental assessment industry.

Site Characterization Support

Should soil, groundwater, or sediment sampling be necessary for Phase II ESA or site characterization, project success depends on the establishment of proper data quality objectives and the support of an exceptional analytical laboratory. ASL understands that the District may use their laboratory or require the use of a named third-party laboratory. Therefore, we offer that capability by using subcontracted laboratory services. ASL is able to cost-effectively manage sample analyses at multiple sites and assure analytical results are obtained in a timely manner. On many projects, laboratory turnaround time is crucial to meeting critical real estate contract deadlines. In addition, mobile laboratory services can be used to get real time data thus eliminating the cost of repeated mobilization to adequately complete site characterization operations. Well installation and Geoprobe services may also be required to collect soil and groundwater samples.

Analytical Laboratory Services

Pace Analytical Services, Inc. (Pace) is a privately held, full-service analytical testing firm operating a nationwide system of laboratories. Pace offers extensive services beyond standard analytical testing, including: bioassay for aquatic toxicity, air toxics, industrial hygiene testing, explosives, dioxins and coplanar PCBs by high resolution mass spectroscopy, radiochemical analyses, product testing, pharmaceutical testing, field services and mobile laboratory capabilities. Pace laboratories are capable of analyzing a full range of environmental samples from a variety of matrices, including air, surface water, wastewater, groundwater, soil, sediment, biota, and other waste products. The latest valid editions of methodologies are applied from regulatory and professional sources including EPA, ASTM, USGS, NIOSH, Standard Methods, and State Agencies. Pace discloses in writing to its customers and regulatory agencies any instances in which modified methods are being used in the analysis of samples. ASL has worked with Pace over 12 years.

Mobile Laboratory Services

KB Labs, Inc. is a certified woman-owned small business enterprise (WBE) based in Gainesville, Florida, that was incorporated in January 1998 to provide environmental mobile laboratory services with exceptional data quality. Growing to meet their client's needs for accurate on-site data, KB Labs has multiple mobile laboratories that offer various analytical services including a Membrane Interface Probe (MIP) logging unit. Currently KB Labs is compliant with the QA certification requirements found in Chapter 62-160, FAC. KB Labs is approved/accredited by the Florida Department of Health, National Environmental Laboratory Accreditation Program (NELAP), and is listed by FDEP as an approved mobile laboratory. ASL has worked with KB Labs over 16 years.

Geoprobe and Drilling Services

Preferred Drilling Solutions, Inc. (PDS) has extensive experience performing environmental projects for water management districts, the FDEP, private property owners/developers and at military/federal facilities. PDS has attracted and trained some of the best crews in the industry. Long-term retention of knowledgeable operators is the cornerstone of their success. Their crews are enthusiastic, courteous and take pride in their work. They are a flexible organization with a vast array of resources standing by to serve their clients' needs. ASL has worked with PDS for over 11 years.

JAEE Environmental (JAEE) specializes in soil and groundwater sampling, installation of monitor wells and injection of bioremediation products using the Geoprobe system. They have been in business for over 20 years and have extensive experience in the state of Florida. JAEE will be providing Geoprobe sampling services to support Phase II ESA data collection operations. ASL has worked with JAEE for over 20 years.

Groundwater Protection (GPI) was founded in 1986 to provide specialized environmental drilling services to consultants and engineers involved with contamination assessment and clean-up projects. GPI has completed work at well over 15,000 sites throughout the Southeastern United States. This includes underground storage tank sites (UST), industrial hazardous waste sites including 20 Federal Superfund Sites, military installations, due diligence sites and NASA facilities. ASL has worked with GPI for over 21 years.

Remediation Support

Clark Environmental, Inc. (Clark), a woman-owned small business, has provided industrial cleaning, disposal and transportation services for all environmental needs for over 28 years. Their project teams are specialists in the environmental field and can offer cost effective solutions for all types of hazardous and non-hazardous industrial material and waste needs. Clark has invested significant resources to permit and build a High Temperature Thermal Treatment Facility and a non-hazardous Waste Solidification Facility. Additional resources have been invested to train and properly equip all personnel with the latest techniques and regulatory practices that govern

their unique line of work. Even more resources have been invested to add their own transportation equipment. ASL has worked with Clark for over 10 years.

Perma-Fix Environmental Services, Inc. is a professional waste management company providing hazardous, mixed, and industrial waste management services and environmental engineering and consulting services to industrial and commercial customers and the U.S. Government. Perma-Fix was founded in 1990 as a treatment and reclamation company for hazardous and industrial waste. The company is based in Gainesville, Florida, and has nine major waste treatment and processing facilities, five service centers and one consulting office located across the United States. Perma-Fix has evolved over the years by developing unique treatment technologies and acquiring permitted waste treatment facilities. Presently, the company has three major business segments: Industrial, Nuclear and Engineering. The company is active in the research and development of technologies that allow it to address its customer's needs. Perma-Fix will provide waste transportation and disposal services in support of this contract. ASL has worked with Perma-Fix for over 16 years.

Waste Management, Inc. is North America's leading provider of integrated environmental solutions. They partner with their customers and communities to manage and reduce waste from collection to disposal while recovering valuable resources and creating clean, renewable energy. ASL has worked with Waste Management for over 21 years.

A&D Environmental Services (A&D) combines broad-based skill, industry experience, financial strength, a proven track record, and technical expertise to provide responsible, accountable services that reduce risk and deliver peace of mind to the industrial and non-hazardous waste customers they serve. A&D owns and maintains an array of heavy equipment including track excavators, track loaders, dozers, backhoes, skid-steers, and a fleet of company-owned dump trucks, dump trailers, rolloffs, and tankers. Regardless of the size or complexity of the project, they can mobilize the right assets for a fast, effective response. ASL has worked with A&D for over 16 years.

E. Equipment List

ASL's inventory of all-terrain vehicles, water craft, and four-wheel drive trucks, as well as the use of sub-contracted helicopters, minimizes access problems associated with difficult terrain and areas of dense vegetation. The use of this all-terrain equipment enables ASL to ensure uniform coverage of each site, whether performing a Phase I ESA on a 0.5-acre, commercially developed parcel or 9,000 acres of forested land. The company's rolling stock in Florida consists of 10 work trucks and an SUV. All are company-owned vehicles.

ASL also maintains locally all of the necessary field screening and sampling equipment required to perform site investigation activities required under this contract. Our inventory of equipment includes a Photovac Micro flame ionization detectors (FID) and photo ionization detectors (PID), XRF instruments, water sampling pumps, combined pH-conductivity-temperature meters, various HACH field screening kits to measure natural attenuation parameters in groundwater, various sediment sampling devices, hand augers, temporary wellpoint supplies, surface water sampling devices, air sampling pumps, boroscopes, sampling canisters, etc. We also maintain various environmental remediation equipment including air sparging and soil vapor extraction pilot testing equipment and soil screen shakers for small arms range cleanups, etc. ASL has over 28 years of corporate experience performing turn-key environment assessment and remediation services and has developed a full inventory of equipment necessary to complete any task assigned by the District. In addition to ASL's full line of field sampling equipment, ASL also maintains on-call large "yellow iron" equipment and has in-house operators to perform remediation and demolition services without added expense and delay of subcontracting. Our equipment is listed in Table 1.4.

Table 1.4. ASL Equipment List			
Site Assessment Equipment			
QTY	Item	QTY	Item
3	HACH Turbidimeter 2100 P	4	YSI water Quality Multimeter
2	Keck Instruments – Interface Probe	1	Trailer Mounted Power Sieve Shaker
1	Slope Indicator – Interface Probe	5	Garmin GPS Device
1	SPER Scientific 860040 Turbidity Meter	1	Soil Screener/Shaker
4	Watermark Water Level	1	Ekman Dredge
2	Interface Probe (Solinst)	1	Flowmeter
10	Peristaltic Pump	2	Survey Equipment
2	Photovac MicroFID	12	Hand Auger
2	Mini-RAE PID	1	Science Tiger PID
Remediation Equipment			
QTY	Item	QTY	Item
5	AS/SVE Trailer	2	Submersible Pump
		1	Pilot Test Equipment
Vehicles			
QTY	Item	QTY	Item
1	2018 Ford F250	2	2010 Ford Ranger
1	2018 Ford Explorer	1	2011 Ford Ranger
1	2008 Ford F150 4WD	1	2013 Ford F150 4WD
1	2008 Ford Ranger	1	2007 Ford Ranger
2	2018 Ford F150	1	Trailer, enclosed 5' x 8'
1	2016 Ford F-150	1	10' Jon boat and trailer
Warehouse Equipment and Sample Storage/Preparation			
QTY	Item	QTY	Item
1	Air Compressor	1	16' Ladder
1	Frigidaire freezer	1	24' Ladder
1	GE Freezer	2	8' Ladder
1	Refrigerator/Freezer	1	10' Ladder
2	Ovens	1	Drum Dolly
1	5 HP Generator	2	Dolly
5	4' Step Ladder	7	55-Gallon Drum
2	6' Step Ladder	1	Utility Trailer
1	Pressure Washer		
Industrial Hygiene Equipment			
QTY	Item	QTY	Item
10	Gilian II BDX Low Flow Air Sampling Pumps	6	Rotometers (secondary calibration devices)
5	Buck Libra Low Flow Personal Sampling Pumps	1	Noise Dosimeter/Sound Level Meter and Calibrator
10	High Flow Air Sampling Pumps	1	Fluke Thermo-Imager Camera
3	Niton XLP-302A XRFs	Many	PPE sets (respirators and disposable clothing)
2	Delmhorst Moisture Meter	Many	Sample collection Media
1	General Electric SurveyMaster Moisture Meter	3	Negative Air Machines – HEPA Filter
3	Tramex Survey Encounter Moisture Meter	1	RAE Systems Colorimetric Gas Detector
1	Tramex Concrete Moisture Meter	2	Wet/Dry HEPA Vacuum
1	Heat Gun	1	Fluke IAQ Meter 975 IAQ & Velocity Meter & Probe
1	Extech Video Boroscope	2	Rae Multi Gas Meter with PID – 5 Channel
2	TSI Indoor Air Quality Meter	1	Four Gas Meter M40
3	Biopump Air Sampler	1	Anderson Impactor Sampler
1	BIOS Defender Dry Cal		
Misc. Equipment			
QTY	Item	QTY	Item

Table 1.4. ASL Equipment List					
	Full Range of Hand & Power Tools (Multiple Sets)		1	Vacuum Sampling Box	
1	Metal Detector		2	Field Eye Wash Stations	
1	Cutting Torch		1	Anemometer	
Expendables			Decontamination Equipment		
Teflon/Silicon Tubing		1.0 mM Filter	Gloves		Tyvek Suits
Reusable Bailers		Sample Containers	Buckets		Organic Free Water
Disposable Bailers		0.45 mM Filters	Analyte Free Water		Liquinox
Well Casing		Lanyard	Isopropanol (pesticide Grade)		Scrub Brush
Duct Tape		Plastic Sheeting			Liquid Spraying System
Foil		pH Paper	PPE/Safety Equipment		
Bucket		Chalk	Rubber Boots		Waders
Spray Paint		Garbage Bags	5-Gallon Water Coolers		Hard Hats
Measuring Tape		Paper Towels	Ear Protection		Life Preservers
Span Gas		Tedlar Bags	Snake Chaps		Disposable Clothing
Calibration Standards		Sample Jars	Fall Protection (Harnesses and Deceleration Devices)		
Latex and Nitrile Gloves			Full face and 1/2 Face Respirators		
Water Resistant Field Notebook			Confined Space Rescue Tripod with Stretcher		
PVC Well Screen 10 ft Sections			SCBA Full-Face Escape Respirators with Tanks		
			Respirator Filters and Cartridges		

CERTIFICATE AS TO CORPORATION

Include this form in the response

The below Corporation is organized under the laws of the State of Alaska; is authorized by law to respond to this Request for Qualification and perform all work and furnish materials and equipment required under the Agreement, and is authorized to do business in the state of Florida.

Corporation name: Aerostar SES LLC

Address: 3550 St. Johns Bluff Road South, Jacksonville, FL 32224

Registration No.: M12000001861

Registered Agent: CT Corporation System

(Affix corporate seal)

By: Brian Smith

Controller

(Official title)

Attest: _____

(Secretary)

The full names and business or residence addresses of persons or firms interested in the foregoing submittal as principals or officers of Respondent are as follows (specifically include the President, Secretary, and Treasurer and state the corporate office held of all other individuals listed):

Terri Clemens, General Counsel, 1006 Floyd Culler Court, Oak Ridge, TN 37830

Jim Madaj, General Manager, 1006 Floyd Culler Court, Oak Ridge, TN 37830

Brian Smith, Controller, 3550 St. Johns Bluff Road South, Jacksonville, FL 32224

Identify any parent, subsidiary, or sister corporations involving the same or substantially the same officers and directors that will or may be involved in performance of the Project, and provide the same information requested above on a photocopy of this form.

If applicable, attach a copy of a certificate to do business in the state of Florida, or a copy of the application that has been accepted by the state of Florida to do business in the state of Florida, for the Respondent and/or all out-of-state corporations that are listed pursuant to this form.

State of Florida
Department of State

I certify from the records of this office that AEROSTAR SES LLC is an Alaska limited liability company authorized to transact business in the State of Florida, qualified on April 3, 2012.

The document number of this limited liability company is M12000001861.

I further certify that said limited liability company has paid all fees due this office through December 31, 2020, that its most recent annual report was filed on January 10, 2020, and that its status is active.

I further certify that said limited liability company has not filed a Certificate of Withdrawal.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Fourteenth day of April, 2020

Secretary of State

Tracking Number: 2685488504CU

To authenticate this certificate,visit the following site,enter this number, and then follow the instructions displayed.

https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication

AFFIDAVIT AS TO NON-COLLUSION AND CERTIFICATION OF MATERIAL CONFORMANCE WITH SPECIFICATIONS

Include this form in the response

STATE OF Florida

COUNTY OF Duval

I, the undersigned, Frank Redway being first duly sworn, depose and say that:

1. I am the owner or duly authorized officer, representative, or agent of: Aerostar SES LLC the Respondent that has submitted the attached submittal.
2. The attached submittal is genuine. It is not a collusive or sham submittal.
3. I am fully informed respecting the preparation and contents of, and knowledgeable of all pertinent circumstances respecting the attached submittal.
4. Neither Respondent nor any of its officers, partners, owners, agents, representatives, employees, or parties in interest, including this affiant, has in any way colluded, conspired, connived, or agreed, directly or indirectly, with any other Respondent, firm, or person to submit a collusive or sham submittal in connection with the Agreement for which the attached response has been submitted, or to refrain from submitting in connection with such Agreement, or has in any manner, directly or indirectly, sought by agreement, collusion, communication, or conference with any other Respondent, firm, or person to fix the price or prices in the attached submittal of any other Respondent, or to fix any overhead, profit, or cost element of the submittal prices or the submittal price of any other Respondent, or to secure through collusion, conspiracy, connivance, or unlawful agreement any advantage against the District or any other person interested in the proposed Agreement.
5. The attached submittal is fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the Respondent or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.
6. No official or other officer or employee of the District, whose salary or compensation is payable in whole or in part by the District, is directly or indirectly interested in this submittal, or in the supplies, materials, equipment, work, or labor to which it relates, or in any of the profits therefrom.
7. Any materials and equipment proposed to be supplied in fulfillment of the Agreement to be awarded conform in all respects to the specifications thereof. Further, the proposed materials and equipment will perform the intended function in a manner acceptable and suitable for the intended purposes of the District.

Signature: _____

Title: Program Manager

Subscribed and sworn to before me this 3 day of September, 2020.

Notary Public, state of Florida at Large

My commission expires: Nov. 4, 2021

(SEAL) Jessica Rogers

JESSICA ROGERS
Notary Public - State of Florida
Commission # GG 122350
My Comm. Expires Nov 4, 2021

QUALIFICATIONS — GENERAL

Include this form in the response

As part of the submittal, Respondent shall complete the following so that the District can determine Respondent's ability, experience, and facilities for performing the Work.

Name of Respondent: Aerostar SES LLC

Respondent's tax identification No.: [redacted]

Year company was organized/formed: 1992

Number of years Respondent has been engaged in business under the present firm or trade name: 8

Total number of years Respondent has experience in similar projects as described in the Statement of Work

28

Has Respondent previously been engaged in the same or similar business under another firm or trade name? If so, please describe each such instance.

Aerostar Environmental Services, Inc., was founded in 1992 and was acquired by the Bristol Bay Native Corporation in 2012, and renamed Aerostar SES LLC.

Has Respondent ever been adjudicated bankrupt, initiated bankruptcy, or been the subject of bankruptcy proceedings on behalf of the current entity submitting this submittal or a prior entity that Respondent substantially operated or controlled? If yes, please describe the nature and result of those proceedings and the entity involved.

No.

Describe the background/experience of the person or persons who will be primarily responsible for directing the Work that will be performed pursuant to this submittal. This inquiry is intended to encompass the project manager and/or superintendent who will be engaged on a daily basis in directing performance of the Work.

Frank Redway, our Program Manager, has over 27 years of program management experience and over 15 years of experience workng with the District, including ASL's previous and existing ESA contracts. Sarah Riffe, our Project Manager, has over 13 years of experience in project management, ESAs (Phase I-IV), sample collection techniques per FDEP SOPs and GIS/GPS applications. Mr. Redway and Ms. Riffe will continue to be involved on every District work order issued.

PROPOSED SUBCONTRACTORS

Include this form in the response

Respondent must identify all portions of the Work Respondent intends to perform through subcontractors.

1. Name and address of subcontractor: Hazardous Substance & Waste Management Research, Inc.
   2976 Wellington Circle, Tallahassee, FL 32309
   Description of work: Human Health and Ecological Risk Assessment
   Estimated value of Work: TBD

2. Name and address of subcontractor: Environmental Risk Information Services
   38 Lesmill Road, Unit 2, Toronto, ON M3B 2T5
   Description of work: Database Services
   Estimated value of Work: TBD

3. Name and address of subcontractor: Pace Analytical Services, Inc.
   8 East Tower Circle, Ormond Beach, FL 32174
   Description of work: Analytical Laboratory Services
   Estimated value of Work: TBD

4. Name and address of subcontractor: Preferred Drilling Solutions
   8820 66th St North, Pinellas Park, FL 33782
   Description of work: Geoprobe and Drilling Services
   Estimated value of Work: TBD

5. Name and address of subcontractor: JAEE Environmental Services, Inc.
   3101 Peachtree Circle, Davie, FL 33328
   Description of work: Geoprobe and Drilling Services
   Estimated value of Work: TBD

6. Name and address of subcontractor: Groundwater Protection
   2300 Silver Star Road, Orlando, FL 32804
   Description of work: Geoprobe and Drilling Services
   Estimated value of Work: TBD

PROPOSED SUBCONTRACTORS

Include this form in the response

Respondent must identify all portions of the Work Respondent intends to perform through subcontractors.

1. Name and address of subcontractor: Perma-Fix Environmental Services, Inc.
   1940 NW 67th Place, Gainesville, FL 32653
   Description of work: Waste Disposal/Remediation
   Estimated value of Work: TBD

2. Name and address of subcontractor: Waste Management
   PO Box 8511, Port St. Lucie, Florida 34985
   Description of work: Waste Disposal/Remediation
   Estimated value of Work: TBD

3. Name and address of subcontractor: Clark Environmental, Inc.
   755 Prairie Industrial Parkway, Mulberry, FL 33860
   Description of work: Waste Disposal/Remediation
   Estimated value of Work: TBD

4. Name and address of subcontractor: A&D Environmental
   PO Box 484, High Point, NC 27262
   Description of work: Waste Disposal/Remediation
   Estimated value of Work: TBD

5. Name and address of subcontractor: _____
   Description of work: _____
   Estimated value of Work: _____

6. Name and address of subcontractor: _____
   Description of work: _____
   Estimated value of Work: _____

DRUG-FREE WORKPLACE FORM

This form required only in the event of a tie response

The Respondent, (business name) Aerostar SES LLC, in accordance with §287.087, Fla. Stat., hereby certifies that Respondent does the following:

1. Informs employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations

2. Publishes a statement notifying employees that

   a. the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against its employees for violations of such prohibition.

   b. as a condition of working on the contractual services that are the subject of this solicitation, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of chapter 893, Fla. Stat., or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five days after such conviction.

3. Gives each employee engaged in providing the contractual services that are the subject of this solicitation a copy of the statement specified in paragraph 2, above.

4. Imposes a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee convicted of a violation listed in sub-paragraph 2.b., above.

5. Makes a good faith effort to continue to maintain a drug-free workplace through implementation of §287.087, Fla. Stat.

As the person authorized to sign this statement, I certify that this firm complies fully with the above requirements.

By: _____ Frank Redway

Title: Program Manager

Date: 9/3/2020 /

Tab 2: Qualifications, Work Histories, and Abilities of Respondent's and Subcontractors' Proposed Key Personnel that will be Assigned to this Project

Tab 2. Qualifications, Work Histories, and Abilities of Proposed Key Personnel

Our proposed key personnel have in-depth experience developing and implementing solutions pertaining to the identification, assessment, and mitigation of environmental contamination issues throughout Northeast and Central Florida. We recognize that it takes a collaboration of many technical and professional specialists to successfully complete a challenging due diligence, contamination assessment, or remediation project. All of our team members are knowledgeable in the various scientific disciplines that effectively contribute to the successful completion of each project. They also have a thorough understanding of how various technical issues relate to the negotiation and acquisition of properties for public agencies. This is an area in which we specialize, having implemented due diligence and environmental risk management programs for public land acquisition and preservation programs throughout Florida. The majority of our team members have experience working with the District, ensuring consistency and eliminating any learning curve.

"Over the course of more than 20 years, ASL has provided consulting support to JEA Environmental Services, delivering excellent work product, consistently performed in accordance with proposed budgets and schedules. JEA has been very pleased with the tasks performed by ASL, including Phase I and II ESAs; environmental audits; petroleum contamination site assessments, remediation, and emergency response; SPCC plans; storage tank closures; and field support for various water, sewer and electric distribution infrastructure projects."

Lindsay Starner, JEA

ASL has assembled an outstanding team of engineers, geologists, scientists, and other environmental professionals for this contract. Our project team understands that cost efficiency and schedule are critical to the overall success of this program. ASL is committed to providing the resources to exceed your expectations of quality and on time performance. We look forward to continuing our work with the District under this new contract.

A. Organization Profile and Proposed Project Management

The proposed technical support team is organized into your three main technical service areas: Environmental Site Assessment, Environmental Sampling, and Other Services. The team will be supported by corporate functions pertaining to QA/QC and Health and Safety. Based on our experience performing due diligence and environmental cleanup projects for the District, we have found organization along lines of technical service to be the most efficient and cost effective approach. Our technical program and organization are also supported by a robust QA/QC program.

ASL's in-house capabilities for turn-key ESA and remediation services will result in responsive, cost effective project implementation for the District. Frank Redway, our Program Manager, has over 27 years of program management experience and has over 15 years of experience working with the District, including ASL's previous and existing ESA contracts. Sarah Riffe, PG, CHMM, our Project Manager, has over 13 years of experience in project management, Phase I-IV ESAs, sample collection techniques per FDEP SOPs and GIS/GPS applications. Ms. Riffe has 9 years of experience performing District ESAs and 3 years of District contract project management experience. Mr. Redway and Ms. Riffe will continue to be involved on every work order issued under this new contract.

Ms. Riffe will be assisted by Environmental Site Assessment Team Leader, Robert Young, PG; Environmental Sampling Team Leader, Kathy Leggoe, PG; and Other Services Team Leader, Paul Fitch, P.E., LAC. Corporate and project quality control and health and safety operations will be managed by Allyson Charbonnet, PhD, and John Hubbard, LAC, CSP, respectively. The roles and responsibility of the three technical service teams are as follows:

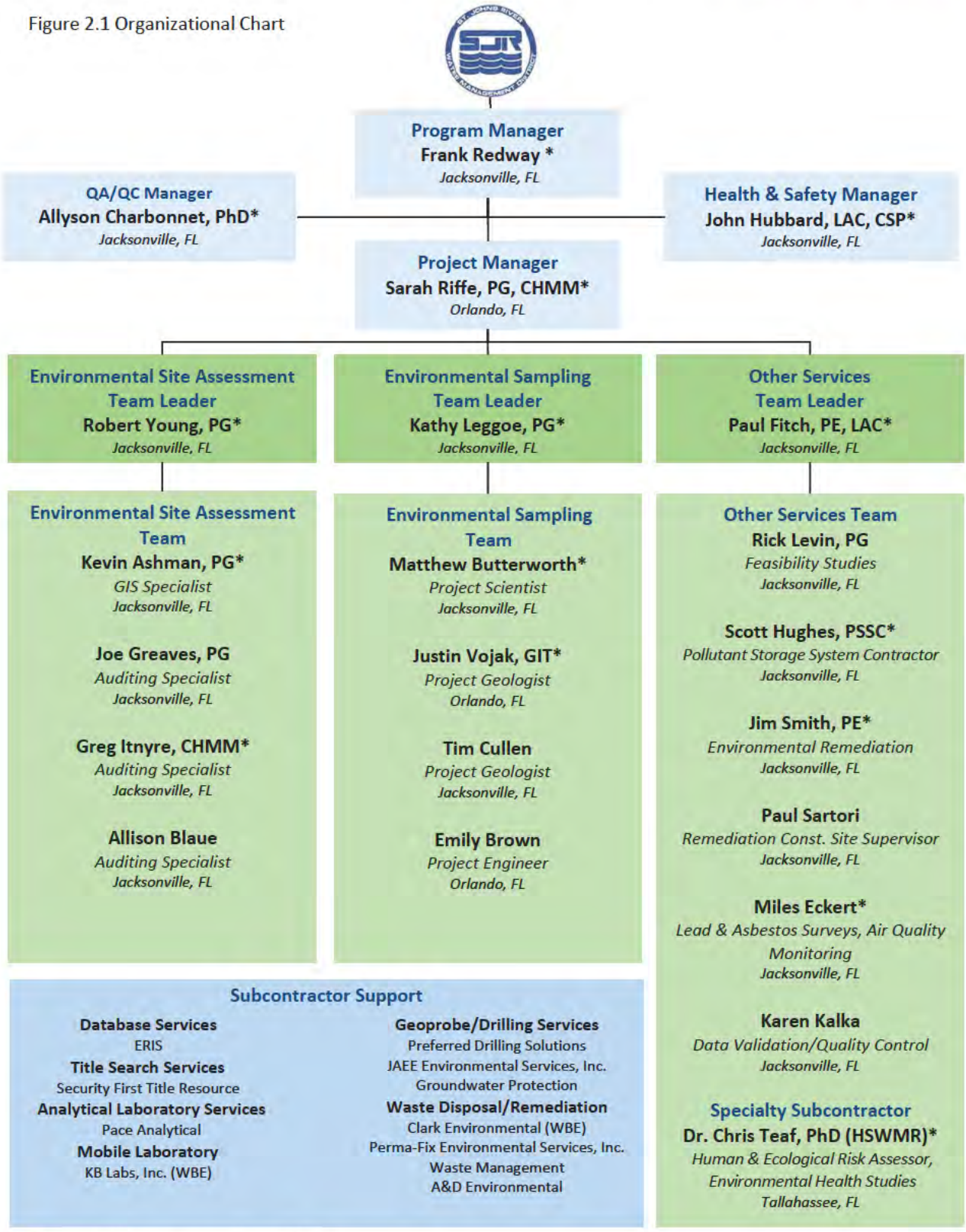
The Environmental Site Assessment Team will perform all tasks specific to determining "all appropriate inquiry" into the previous ownership and uses of the property consistent with good commercial or customary practice as defined in ASTM E1527-13 for Phase I ESAs. We understand that this line of service will be the mainstay of this contract. The Environmental Site Assessment Team will be supported by and work closely with the Environmental Sampling Team and Other Services Teams for those tasks where additional studies or recommendations may be required due to the presence or likely presence of environmental contamination issues. Additional assessment and remedial activities (Phase I, II, III, IV ESAs) may need to be performed to further evaluate and address contaminants identified. This integrated team approach has proven to be an effective method of work control. Our team includes an experienced group of geologists, engineers, and environmental scientists.

The Environmental Sampling Team will review available records from the District and other sources, tabulate the field data, and prepare desktop site assessment reports. The team will perform all Phase II ESA and contamination assessment activities and will conduct site sampling programs to determine if soil, sediments, groundwater, or surface water have been negatively impacted by current or past site uses. If areas of impacted soil and/or groundwater are identified, the environmental sampling team can also perform aquifer characteristic testing and prepare a Site Assessment Report. The team will also be responsible for any soil and groundwater monitoring activities associated with remedial system performance monitoring and natural attenuation projects that may be required. Sampling locations will be mapped using GPS and reported in UTM coordinate system utilizing the NAD 83. Our team includes staff geologists, hydrogeologists, engineers, and scientists.

The Other Services Team will be responsible for performing feasibility studies, human health and ecological risk assessments, and environmental health studies; preparing environmental health and safety plans; evaluating potential exposure pathways and routes; identifying potential receptors; establishing site specific health factors; performing environmental remediation activities; conducting source removal activities; preparing source removal reports; conducting pilot studies; evaluating natural attenuation concentrations; developing engineering cost estimates; performing lead and asbestos surveys; and providing air quality monitoring. If necessary, the Other Services Team can design and implement remedial action plans; prepare plans, specifications, and bidding documents; provide technical support and engineering QA/QC reviews during construction; prepare as-built drawings; provide annual remedial system performance evaluations; and design system optimization programs. The team available for this contract consists of engineers, hydrogeologists, CADD staff, risk assessors, and industrial hygienists.

The Organization Chart (Figure 2.1) introduces the various management and technical professionals, and subcontractors assigned to the project team. Project team member resumes are presented in Appendix B. A brief description of the experience of each of our proposed key personnel is as follows:

Figure 2.1 Organizational Chart



*Resume of key personnel provided

B. Specific Names and Functions of Personnel

The staff selected for this project is intimately familiar with the challenges of performing assessment and remediation projects for the District and other public land acquisition agencies at the state and local levels. The majority of our team members have worked on District WOs during the last 15 years; several have been active members of various public land acquisition and management professional associations and have participated in national, regional, and state education programs as speakers and technical experts on the topic of environmental site assessments/risk management programs for large scale land acquisition programs. The project management team for this contract has a total of 163 years combined experience performing environmental site assessment and remediation projects in Florida. The majority are based in ASL's Jacksonville and Orlando offices (Table 2.1). The roles and work locations of all the technical staff assigned to support our project management team are illustrated in the organizational chart (Figure 2.1).

Table 2.1 Project Management Team Experience

Name	Position	Work Locations	Years Experience
Frank Redway	Program Manager	Jacksonville, FL	27
Sarah Riffe, PG, CHMM	Project Manager	Orlando, FL	13
Robert Young, PG	Environmental Site Assessment Team Leader	Jacksonville, FL	40
Kathy Leggoe, PG	Environmental Sampling Team Leader	Jacksonville, FL	19
Paul Fitch, PE, LAC	Other Services Team Leader	Jacksonville, FL	25
Allyson Charbonnet, PhD	Corporate QA/QC Manager	Jacksonville, FL	22
John Hubbard, LAC, CSP	Corporate Health and Safety Manager	Jacksonville, FL	17

Project Management Team

Frank Redway will serve as Program Manager and will be available in an advisory role similar to his role as QA/QC and Program Manager for our current contract. He is responsible for integrating various work efforts and providing technical leadership, and has the authority and responsibility for all aspects of client satisfaction. As Program Manager for ASL, Mr. Redway's administrative responsibilities will include supervising and training field personnel; conducting quality assurance/quality control reviews; preparing cost estimates and budget analyses; interacting with clients and regulatory agencies; and preparing reports. Mr. Redway has over 27 years of experience as an environmental scientist for all aspects of environmental projects including environmental compliance, Phase I/II ESAs, HUD assessments, contamination screening evaluations, contamination assessments, remedial action plans, asbestos and lead based paint sampling, and indoor air quality. He has extensive experience in contract management, proposal preparation, client/regulatory interaction, technical oversight, supervision and collection of field data, and report preparation. Mr. Redway is also trained in asbestos, indoor air quality, and lead-based paint surveys. He has served as the Quality Control Manager for construction projects at federal facilities. Mr. Redway has extensive and current experience working with FDEP on its projects, and is currently managing all due diligence projects for ASL's FDEP State Lands Contract with the Bureau of Land Acquisition. He has also managed numerous large-scale land acquisition due diligence projects involving more than 50 parcels per project. Mr. Redway holds a B.S. in Geography and a M.S. in Environmental Engineering Sciences and is located in ASL's Jacksonville office.

Sarah Riffe, PG, CHMM will serve as Project Manager. Ms. Riffe has 13 years of experience in the field of environmental consulting, including 3 years of experience as a Project Manager on ASL's current contract. She is responsible for communication and coordination with the District to meet their various ESA needs. She prepares the scopes of work, cost estimates, proposals, and deliverables for a variety of District Work Orders. She has actively participated in a wide range of environmental applications, including Phase I/II ESAs, underground storage tank closures, emergency responses, industrial health assessments, permitting applications, compliance sampling, and remediation of contaminated soils and groundwater. Ms. Riffe also has specific experiences with field work including ground and surface water data acquisition and sampling, monitor well installation, soil screening and

sampling, drilling oversight, vertical surveying, field data collection, field quality control and safety, and sampling equipment operation and calibration. Ms. Riffe is located in ASL's Orlando office.

Technical Service Team Leaders

Robert Young, PG will serve as Environmental Site Assessment Team Leader. Mr. Young has over 40 years of professional experience in the field of contamination assessment investigations, Phase I and Phase II ESAs, environmental permitting, Spill Prevention Control and Countermeasure (SPCC) Plans, Storm Water Pollution Prevention Plans (SWPPPs), and remediation services. His field experience includes soil and groundwater evaluation and assessment of hazardous and non-hazardous materials at retail gasoline facilities, dry cleaning facilities, bulk distribution terminals, and commercial and industrial facilities throughout Florida and the Southeastern U.S.; collection of soil and groundwater samples for laboratory analyses; installation of monitor wells using direct-push and conventional drilling techniques; performing aquifer tests, vapor extraction, and air sparging tests; construction oversight, operation and maintenance of groundwater and soil treatment systems; and development of Work Plans, Accident Prevention Plans, Site Safety and Health Plans, Site Assessments, and Remedial Action Plans (RAPs). Mr. Young holds a B.A. in Geology and is located in ASL's Jacksonville office.

Kathy Leggoe, PG will serve as Environmental Sampling Team Leader. Ms. Leggoe has 19 years of experience in the assessment and remediation of contaminated sites. She has experience in supervising and scheduling assessment activities, supervising on-site subcontractors, collecting and compiling field data, and preparing a wide range of technical reports that include Contamination Assessment Plans (CAPs), Site Assessment Reports (SARs), SAR Addenda, Emergency Response, Monitoring Only Plans (MOPs), RAPs, Remedial Action Implementation Reports (RAIRs)/Source Removal Reports (SRRs), and annual, semi-annual, and quarterly reports. Her experience includes performance of numerous Phase II ESAs; performance of remediation activities at hazardous and non-hazardous emergency response sites; underground storage tank removals, upgrades, and installations; monitoring well installations; and soil, sediment, groundwater, and surface water sample collection. Her experience also includes preparation of pre-planning project documents including Quality Assurance Procedure Plans (QAPPs) and Site Specific Health and Safety Plans (SSHPs). Ms. Leggoe actively assists in training new and seasoned employees and actively mentors field personnel. Ms. Leggoe holds a B.S. degree in Geology. She is located in ASL's Jacksonville office.

Paul Fitch, PE, LAC will serve as Other Services Team Leader. Mr. Fitch has 25 years of experience in environmental consulting. His experience includes a full range of environmental assessment, remediation, waste management and permitting at numerous Florida sites for developers, engineers, retail chains, industrial, utility, agricultural and government clients. He has also prepared SPCC plans, SWPP plans and Baseline Environmental Assessments for various federal facilities. Mr. Fitch has managed numerous asbestos surveys and abatement projects, including larger scale pre-renovation/demolition asbestos and lead-based paint survey projects at numerous industrial and commercial sites. Mr. Fitch is a Florida Registered Professional Engineer, Licensed Asbestos Consultant, and holds a B.S. in Electrical Engineering. He is located in ASL's Jacksonville office.

Corporate Support

Allyson Charbonnet, PhD will serve as QA/QC Manager. Dr. Charbonnet has 22 years of professional experience in the fields of chemistry and environmental consulting. She has developed analytical methods and standard operating procedures for the sampling and analysis of a wide range of organic and inorganic compounds in various complex matrices and has conducted research in the academic sector and for private industry. Dr. Charbonnet has managed large scale analytical laboratory projects and provided technical oversight for all aspects of laboratory QA/QC. She has supervised laboratory staff, including training staff on new analytical laboratory techniques, proper cataloguing of samples, and data interpretation and documentation. In addition, Dr. Charbonnet has conducted and reviewed multiple Phase I ESAs on various types of real estate properties and has

prepared a wide range of technical reports, procedural guidelines, planning documents, and quality assurance/quality control reviews. Dr. Charbonnet holds a B.S. in Biochemistry and a Ph.D. in Chemistry. She is located in ASL's Jacksonville office.

John Hubbard, LAC, CSP will serve as Health and Safety Manager. Mr. Hubbard has 17 years of experience providing industrial hygiene and environmental services. As Corporate Health and Safety Manager, Mr. Hubbard has effectively managed the safety and risk management process for all USACE and federal projects, and multiple private client projects. These efforts have included an emphasis on hazard identification, analysis, control, monitoring, and implementation of corrective actions with the goal of continual safety improvement. He has been responsible for the review and approval of EM 385-1-1 compliant Accident Prevention Plans (APPs) and SSHPs for projects which include Hazardous, Toxic, and Radioactive Wastes (HTRW). He works with Project Managers and Site Safety and Health Officers (SSHOs) to develop Activity Hazard Analysis (AHAs) identifying site specific hazards and developing systems of administrative and engineering controls. Mr. Hubbard is responsible for conducting site and project audits and maintaining corporate Health and Safety Program Manuals to ensure compliance with current OSHA standards. Mr. Hubbard holds a B.S. in Biology. He is located in ASL's Jacksonville office.

Subcontractor Support

In addition to ASL's in-house staffing capabilities, our project team will be supported by subcontractors with proven capabilities to respond to the needs of this contract. This is not a team of subcontractors that was just assembled for this contract. During our 28 years of corporate experience completing environmental site assessment, site characterization and remediation projects in Florida, ASL has developed strong teaming relationships with numerous subcontractors throughout the state, including title companies, environmental database providers, surveyors, on-site laboratories, full-service analytical laboratories, and specialized companies in drilling and geoprobe, waste disposal, tank removal, remedial equipment, and construction services. As prime contractor, ASL understands that success is truly a team effort. We have developed strong and successful working relationships with carefully selected firms in order to best serve our clients. The ASL Team has worked together before and is ready to deliver best-in-class services, on-time and to the level of quality expected by the District.

Subcontractor Management

ASL has worked with all of the proposed subcontractors on similar projects and has established long-term relationships with each. HSWMR will serve as specialty subconsultant for human health risk assessments, feasibility studies, ecological risk assessments, high-level modeling and chlorinated pesticides assistance, in support of the site characterization and site remediation teams. Each subcontractor will report directly to one of the three ASL Team Leaders. The flat structure of our subcontracting plan simplifies the chain of command and management process and ensures that each Team Leader has the all the resources needed to successfully perform under this contract. Our subcontracting team consists of the following companies (Table 2.2).

Table 2.2 ASL's Subcontractor Support

Human Health and Ecological Risk Assessment	Hazardous Substance & Waste Management Research, Inc.
Due Diligence	Environmental Risk Information Services
Analytical Laboratory Services	Pace Analytical Services, Inc.
Mobile Laboratory Services	KB Labs, Inc. (WBE)
Geoprobe and Drilling Services	Preferred Drilling Solutions JAEE Environmental Services, Inc. Groundwater Protection
Remediation	Clark Environmental (WBE) Perma-Fix Environmental Services, Inc. Waste Management A&D Environmental

C. Evidence of Current Professional Status of Personnel (Licensing, Certifications, etc.)

ASL maintains in-house the professional licenses and certifications to perform all aspects of the District's SOW. Ten of ASL's 25 team members servicing the District under this contract are Florida registered or licensed professionals (Table 2.3). All have extensive experience performing environmental site assessment, site characterization, environmental sampling, remedial design, and construction projects. In order to provide evidence of licensing, copies of Florida professional licenses are included in Appendix B.

Table 2.3 Team Member's Professional Licenses

Team Member	Role	License	License No.	Years Exp.
Sarah Riffe	Project Manager	PG, CHMM	2995/20377	13
John Hubbard	Health and Safety Manager	CSP, LAC	32250, AX97	14
Kathy Leggoe	Environmental Sampling Team Leader	PG	2687	19
Paul Fitch	Other Services Team Leader	PE, LAC	57447, 3211053	25
Robert Young	Environmental Site Assessment Team Leader	PG	123	40
Kevin Ashman	GIS Specialist	PG	2943	9
Scott Hughes	Pollutant Storage System Contractor	PSSC	1256872	24
Jim Smith	Environmental Remediation	PE	45048	36
Joe Greaves	Auditing Specialist	PG	2943	14
Rick Levin	Feasibility Studies	PG	1431	36

The two Professional Engineers (PE) assigned to the project team have over 60 years of combined experience. Jim Smith is the Engineer-in-Charge of ASL's Remediation and Construction Group. Mr. Smith has provided remedial design, pilot testing, construction management, and remedial system operation and maintenance oversight at over 350 sites. He has prepared or certified over 150 remedial action plans and performed source removals or remedial construction at over 150 sites. Paul Fitch is Engineer-in-Charge of ASL's Engineering Services, Industrial Hygiene, and Health and Safety groups. Mr. Fitch has extensive experience managing and performing environmental site assessments. He is a Florida-Licensed Asbestos Consultant (LAC) and has performed asbestos surveys, prepared abatement specifications, and supervised abatement projects at over 500 sites. Mr. Fitch also has experience overseeing and certifying remedial action plans. Mr. Smith and Mr. Fitch are licensed under Section 287.055, F.S. to practice engineering. Our two primary engineers are based out of ASL's Jacksonville office.

The six Professional Geologists (PG) assigned to the project team have 131 years of combined experience and are all licensed under the provisions of Chapter 492, F.S. to practice and offer to practice geology. Sarah Riffe, Robert Young, Kathy Leggoe, Joe Greaves, Kevin Ashman, and Rick Levin have extensive experience in environmental assessment and remediation with the District. Five of our primary geologists are based out of ASL's Jacksonville office, and Sarah Riffe, PG, ASL's Project Manager, is located in Orlando.

D. Background, Education, and Experience in ESA and Sampling Techniques

ASL will continue to provide proven technical expertise and resources to successfully perform all the scope of services required under this contract. ASL's extensive ESA experience with the District eliminates any learning curve providing continuous, seamless, and integrated services. Our approach to any project is straightforward: we develop our project management plan with District managers, and then assign the appropriate resources and execute the plan. We make sure that every project meets District, FDEP, and EPA standards, and the technical requirements of all project stakeholders. ASL maintains a corporate quality assurance program for field sampling activities that complies with all EPA and FDEP standard operating procedures.

ASL excels in the level of service and commitment to proactive communication based on the District's specific needs. We have made it our business to understand your business, and then apply this knowledge to exceed your project expectations. Our goal continues to be assisting the District in identifying and managing environmental

risk/liabilities and providing site characterization and cleanup services required to facilitate land acquisition and management activities. Many of these properties are part of the District's land preservation and environmental restoration programs. Having performed environmental due diligence work for the National Park Service, City of Jacksonville Preservation Program, the Trust for Public Land, the Nature Conservancy, North Florida Land Trust, and FDEP's Bureau of Land Acquisition Division of State Lands, our staff are experienced and understand the nuances associated with providing due diligence services for land preservation programs and environmentally sensitive properties. These contracts were awarded in part based on our personnel's experience with ESAs, sampling protocol for various media and well installation techniques.

ASL has an experienced in-house project staff of over 30 seasoned professionals located in our corporate headquarters in Jacksonville and additional staff located in branch offices in Orlando, Florida; Mobile, Alabama; New Orleans, Louisiana; Norfolk, Virginia; and Oak Ridge, Tennessee. The professionals selected for this contract include PEs, PGs, LACs, a Pollutant Storage System Contractor (PSSC), environmental scientists, chemists, biologists, risk assessors, remediation specialists, GIS specialists, technicians, and field technicians. The depth and breadth of ASL's technical and corporate resources allow us to respond to multiple project assignments in various locations throughout the District's 18-county area of responsibility, simultaneously. As an example, ASL has performed multiple Phase I ESA projects for the District in 14 counties, including Alachua, Brevard, Clay, Duval, Flagler, Indian River, Lake, Marion, Nassau, Orange, Putnam, Seminole, St. Johns, and Volusia.

Our staff understands the environmental site assessment and site investigation process, and through our work with various public and private sector clients, has developed a holistic approach to performing multiple Phase I ESA projects. Our staff has worked extensively with the FDEP SOPs for performing field sampling activities. We tailor our project approach to meet the specifics needs and conditions of each site. For example, Phase II ESA investigations are commonly conducted as a continuum of a Phase I ESA, after establishing project objectives and economics. We are also licensed, certified, and experienced in such program areas as asbestos, lead-based paint, radon, and other indoor air quality issues such as mold. This cross-training and experience of our staff provides built-in technical and cost savings efficiencies for each District ESA project.

Table 2.4 outlines the background, education, and experience of each of ASL's proposed staff as it relates ESA and sampling techniques. Our proposed staff members have extensive media sample collection experience, particularly with soil and groundwater sampling and also have the requisite knowledge and experience with specific FDEP SOPs and general sampling protocol (including well installation techniques).

Table 2.4 Team Member Capabilities and Experience				ATSM 1527-13/AAI	Phase II ESAs/Site Assessments	Temp/Perm Monitor Wells	Groundwater Sampling	Soil Sampling	Sediment Sampling	Surface Water Sampling	Asbestos & LBP Surveys	Human & Ecol. Risk Assess. & Modeling	Fate & Transport & Env. Health Studies
Team Member	Project Role	Yrs. Exp.	Degree										
Frank Redway	Program Manager	27	M.S.	♦	♦	♦	♦	♦	♦	♦	♦		♦
Sarah Riffe, PG, CHMM	Project Manager	13	B.S.	♦	♦	♦	♦	♦	♦	♦			
Allyson Charbonnet, PhD	QA/QC Manager	22	PhD	♦	♦		♦	♦	♦	♦			
John Hubbard, CSP, LAC	Health & Safety	17	B.S.	♦	♦	♦	♦	♦	♦	♦	♦		
Bob Young, PG	Team Leader	40	B.A.	♦	♦	♦	♦	♦	♦	♦			
Kathy Leggoe, PG	Team Leader	19	B.S.	♦	♦	♦	♦	♦	♦	♦			
Paul Fitch, PE, LAC	Team Leader	25	B.S.	♦	♦	♦	♦	♦	♦	♦	♦		
Kevin Ashman, PG	GIS Specialist	9	B.A.	♦	♦	♦	♦	♦					

Table 2.4 Team Member Capabilities and Experience				ATSM 1527-13/AAI	Phase II ESAs/Site Assessments	Temp/Perm Monitor Wells	Groundwater Sampling	Soil Sampling	Sediment Sampling	Surface Water Sampling	Asbestos & LBP Surveys	Human & Ecol. Risk Assess. & Modeling	Fate & Transport & Env. Health Studies
Team Member	Project Role	Yrs. Exp.	Degree										
Joe Greaves, PG	Auditing Spec.	14	B.S.	♦	♦	♦	♦	♦	♦	♦			
Greg Itnyre, CHMM	Auditing Spec.	21	M.S.	♦	♦	♦	♦	♦	♦	♦	♦		
Allison Blaue	Auditing Spec.	3	B.S.	♦	♦		♦	♦					
Matthew Butterworth	Project Scientist	14	B.S.	♦	♦	♦	♦	♦	♦	♦	♦		
Justin Vojak, GIT	Project Geologist	5	M.S.	♦	♦	♦	♦	♦	♦	♦	♦		
Tim Cullen	Project Geologist	15	B.S.	♦	♦	♦	♦	♦	♦	♦			
Emily Brown	Project Engineer	4	B.S.	♦	♦	♦	♦	♦	♦	♦			
Rick Levin, PG	Feasibility Studies	33	B.A.	♦	♦	♦	♦	♦	♦	♦		♦	
Scott Hughes	PSSC	24	B.S.	♦	♦	♦	♦	♦	♦	♦	♦		
Jim Smith, PE	Env. Remediation	36	M.S.	♦	♦	♦	♦	♦	♦	♦		♦	
Miles Eckert	IH	10	B.S.	♦	♦	♦	♦	♦	♦	♦	♦		
Paul Sartori	Site Supervisor	20			♦	♦	♦	♦	♦				
Karen Kalka	Data Validation/QC	17	B.S.	♦	♦	♦	♦	♦	♦	♦			
Dr. Chris Teaf (HSWMR)	Risk Assessor	45	PhD									♦	♦

"On behalf of the Southwest Florida Water Management District, I would like to thank you and commend you and your staff for your outstanding performance during the last two years...I have found your staff to always be helpful and accessible to attend to our questions."

Robert M. Morris, ARA, Senior Land Acquisition Specialist, SWFWMD

E. Qualifications as an Environmental Professional as Specified in EPA's AAI Rule

The All Appropriate Inquiry (AAI) rule (40 CFR Part 312) defines an EP as someone who has sufficient specific education, training, and experience necessary to exercise professional judgment to develop opinions and conclusions regarding conditions indicative of releases or threatened releases of hazardous substances on, at, in, or to a property, sufficient to meet the objectives and performance factors of the rule. An EP must possess one of following qualifications:

- Hold a current PE or PG license or registration from a state, tribe, or U.S. territory (or the Commonwealth of Puerto Rico) and have the equivalent of three (3) years of relevant full-time experience; **or**
- Be licensed or certified by the federal government, a state, tribe, or U.S. territory (or the Commonwealth of Puerto Rico) to perform environmental inquiries and have the equivalent of three (3) years of relevant full-time experience; **or**
- Have a Baccalaureate or higher degree from an accredited institution of higher education in a discipline of engineering or science and the equivalent of five (5) years of relevant full-time experience; **or**
- Have the equivalent of ten (10) years of relevant full-time experience.

An environmental professional should remain current in his or her field through participation in continuing education or other activities and should be able to demonstrate such efforts. A person who does not qualify as an EP under the foregoing definition may assist in the conduct of all appropriate inquiries in accordance with this part if such person is under the supervision or responsible charge of a person meeting the definition of an environmental professional provided above. To more clearly demonstrate our qualifications using the AAI rule as a definition of an EP, Table 2.5 shows the requirements of the AAI criteria, and those individuals who have been

assigned to manage or perform due diligence investigations under this contract. Of particular note is that 18 of the 24 AAI Qualified EPs have performed work for the District during the past 12 years.

Table 2.5 Team Member AAI Rule Qualifications as an Environmental Professional

Team Member	State Registered PE or PG & 3 Years Experience	Licensed to Perform Environmental Inquiries & 3 Years Experience	B.S. in engineering or science & 5 Years Experience	10 Years Experience
Frank Redway			♦	♦
John Hubbard, CSP, LAC			♦	♦
Sarah Riffe, PG, CHMM	♦		♦	♦
Karen Kalka			♦	♦
Robert Young, PG	♦		♦	♦
Kevin Ashman, PG	♦		♦	
Joe Greaves, PG	♦		♦	♦
Greg Itnyre, CHMM			♦	♦
Kathy Leggoe, PG	♦		♦	♦
Tim Cullen			♦	♦
Paul Fitch, PE, LAC	♦		♦	♦
Rick Levin, PG	♦		♦	♦
Scott Hughes, PSSC			♦	♦
Jim Smith, PE	♦		♦	♦
Allyson Charbonnet, PhD			♦	♦
C. Teaf, PhD (HSWMR)			♦	♦

F. Availability of Proposed Key Personnel to Work on this Contract

ASL's project management team, key technical staff, and subcontractors are available to continue work on this contract without interference from our current contractual obligations. ASL has developed comprehensive project management systems and procedures that allow us to provide turn-key environmental assessment and remediation services for the District's ESA contract and to make it our *top priority.* We know how to manage heavy workloads, while maintaining overall project budgets and schedules. ASL's reputation is built on responding to our clients' needs, in a cost effective and timely manner. Ninety percent of our existing projects are being performed for repeat clients.

Availability of Key Staff

Based on our 28 years of corporate experience performing multiple ESA projects simultaneously, we are confident that our proposed percent availability will exceed the District's needs. The Senior Management team assigned to this project, Frank Redway (Program Manager) and Sarah Riffe (Project Manager) are immediately available to implement this program, since they are supporting the current contract. Combined they have over 40 years of experience managing large-scale ESA programs for public agencies. They both have managed and performed ESA projects pertaining to preservation and conservation lands throughout the state of Florida, and have extensive knowledge of the various site conditions that will be encountered. Mr. Redway and Ms. Riffe will be supported by a team of in-house project managers and senior technical staff with extensive experience in each discipline required by the contract. All are available to immediately support this contract. Our proposed ESA Team is comprised of seasoned professionals, who are cross-trained in the various support functions such as asbestos, lead-based paint, and mold assessments; environmental sampling and contamination assessments; and environmental remediation. Such cross-trained personnel allow us to deliver even greater flexibility and staff availability since ASL professionals can be quickly and efficiently re-assigned as project needs dictate. The depth and breadth of our proposed team will assure the District that the appropriate team members are available for any task assignments. Table 2.6 summarizes ASL staff availability for this contract.

Table 2.6 Availability of Key Staff for ESA Contract			
	Team Member	**Current Workload**	**Availability**
Senior Leadership Team	Frank Redway	50%	50%
	Sarah Riffe, PG, CHMM	40%	60%
	Robert Young, PG	50%	50%
	Kathy Leggoe, PG	50%	50%
	Paul Fitch, PE, LAC	40%	60%
Corporate Support	John Hubbard, CSP, LAC	50%	50%
	Allyson Charbonnet, PhD	40%	60%
Technical Staff	Kevin Ashman, PG	50%	50%
	Joe Greaves, PG	60%	40%
	Greg Itnyre, CHMM	30%	70%
	Allison Blaue	30%	70%
	Matthew Butterworth	50%	50%
	Justin Vojak, GIT	40%	60%
	Tim Cullen	40%	60%
	Emily Brown	40%	60%
	Rick Levin, PG	50%	50%
	Scott Hughes, PSSC	60%	40%
	Jim Smith, PE	50%	50%
	Miles Eckert	60%	40%
	Paul Sartori	60%	40%
	Karen Kalka	50%	50%

In addition to the staff designated in this proposal, the management team will have available over 20 additional in-house environmental professionals to support them on this contract. The availability of our corporate resources will ensure that each task assignment receives precisely the level of attention and technical detail required. ASL continues to hire and cross-train new staff, therefore increasing the staffing resources over the life of the contract.

ASL always meets each deadline established by our clients and prioritizes workloads based on their turnaround needs. Project workloads for individuals range from 50 to 100 percent, allowing for vacation, holiday, sick time, and training. Overloads or underloads are adjusted through effective planning to prevent problems from arising. We have and will remain available to work without interference from other contracts that are currently underway. Our ability to work on multiple projects is one of our most valued features.

G. Communications Skills and Accessibility by E-mail

Quality service can best be provided through a partnership with the District concerning work and schedule requirements. The best way to achieve that partnership is through frequent and proactive communication between the District and ASL as we have demonstrated during the past 15 years. The agreement and mutual understanding of a project's scope and schedule are critical to its success. ASL works diligently to eliminate any issues, by ensuring feedback is always provided and received prior to executing a project task. Our program manager will ensure that all key members are accessible on a 24-hour basis. This is especially true leading up to and during field work or property inspections.

Our team will continue to use established and proven protocols for communication with the District. Regular communications, starting with the initial program negotiations and technical planning meetings, continuing through to contract completion, will ensure that all work is accomplished on or ahead of schedule, and with the expected level of quality. Sarah Riffe, PG, CHMM, Project Manager, will be the single point of contact for each Work Order issued. Frank Redway, Program Manager, will also be available throughout the duration of the contract. Both individuals have an 11-year history of working together with District personnel and as such understand what is important for the success of this contract. Proactive communication has been and will continue to be the key to the success of every project, and the basis of our business relationships.

ASL's internal communication is handled much the same way as any external communication. Project staff must be reachable, and the communication must be understood. This is achieved by face to face meetings, emails, and phone calls. While traveling, our staff has access to ASL's main server through Virtual Private Network (VPN) in order to access files and emails. Table 2.7 includes the key members of the project management team, their dedicated email address and their internal phone numbers. Additionally, ASL will provide key personnel's cell phone number to the District program and project managers upon contract negotiation. This way all key personnel can be readily reached.

Table 2.7 Key Staff Contact Information

	Team Member	Email	Phone
Senior Leadership Team	Frank Redway	fredway@aerostar.net	904.565.2820
	Sarah Riffe, PG, CHMM	sriffe@aerostar.net	407.464.0832
	Robert Young, PG	ryoung@aerostar.net	904.565.2820
	Kathy Leggoe, PG	kleggoe@aerostar.net	904.565.2820
	Paul Fitch, PE, LAC	pfitch@aerostar.net	904.565.2820
Corporate Support	John Hubbard, CSP, LAC	jhubbard@aerostar.net	904.565.2820
	Allyson Charbonnet, PhD	acharbonnet@aerostar.net	904.565.2820
Technical Staff	Kevin Ashman, PG	kashman@aerostar.net	904.565.2820
	Joe Greaves, PG	jgreaves@aerostar.net	904.565.2820
	Greg Itnyre, CHMM	gitnyre@aerostar.net	904.565.2820
	Allison Blaue	ablaue@aerostar.net	904.565.2820
	Matthew Butterworth	mbutterworth@aerostar.net	904.565.2820
	Justin Vojak, GIT	jvojak@aerostar.net	407.464.0832
	Tim Cullen	tcullen@aerostar.net	904.565.2820
	Emily Brown	ebrown@aerostar.net	407.464.0832
	Rick Levin, PG	rlevin@aerostar.net	904.565.2820
	Scott Hughes, PSSC	shughes@aerostar.net	904.565.2820
	Jim Smith, PE	jsmith@aerostar.net	904.565.2820
	Miles Eckert	meckert@aerostar.net	904.565.2820
	Paul Sartori	psartori@aerostar.net	904.565.2820
	Karen Kalka	kkalka@aerostar.net	904.565.2820

Secure Website to Provide Real-Time Worldwide Access to Effectively Manage Task Orders

ASL has an established Sharepoint website that facilitates project planning, implementation and reporting and is designed to promote team collaboration and communication in a format that is easy to use and navigate. Project-related submittals, requests for information, change orders, photographic logs, and any other project-related correspondence can be posted for access by all team members. The website provides the District users access through their Web-browser to contribute and/or view data contained for a specific project, based on predefined permissions determined by ASL's Program Manager and approved by the District.

SharePoint Services provides the ability to create multiple project portal websites with secure access. Multiple project websites can be maintained separately with unique permissions for each or indexed in a user-friendly interface for easy access via tab browsing. Each project portal includes document tracking for submittals and other project-related documentation. Each portal includes project scheduling capabilities similar to those in Microsoft Project. Users will be granted read-only access or have the capability to contribute to the information on the site and make changes where needed. Project portal websites also have the ability to act in a similar manner to File Transfer Protocol for the sharing of large file size documents.

H. GPS and GIS Skills

ASL routinely uses GPS and GIS in many applications. Several of our team members have experience with hardware, software, and equipment applications. The application of GPS in the services ASL provides has been wide spread. We have typically used Garmin hand-held units and the Avenza Maps® mobile phone application for general field work. We have also used Magellan units, or when a high level of location accuracy is required, Trimble units.

One example of our GPS application was the use of GPS and GIS for an ash field identification project in Jacksonville. ASL provided field sampling services for various City of Jacksonville incinerator ash sites to evaluate the extent and magnitude of impacts to soil and groundwater from ash generated from former municipal waste incinerators. ASL collected over 2,000 soil, surface water, sediment, and groundwater samples for laboratory analyses to delineate the areas impacted by incinerator ash and characterize the constituents of concern. A hand-held GPS unit was used to survey each sampling location. Both the horizontal and vertical coordinates, along with their corresponding uncertainties, were measured and maintained using a sample location database. The survey data was used to generate GIS and CADD drawings depicting the approximate extent, depth, and thickness of ash material identified during the investigations.

Another very applicable use of GPS is during Phase I ESAs or wetlands delineation projects. Sarah Riffe is extremely knowledgeable in the use of GPS units for not only Phase I and II ESA work, but also for sample collection and remedial applications. She has personally used GPS units to collect, integrate, and present site data in GIS applications, desktop database programs and web-based Geospatial data and imagery. She routinely processes data points provided by the District for use by the field sampling team.

ASL also has extensive experience in the use of GIS to present, clarify, and summarize information. Our clients have included the U.S. Navy, U.S. Army Corps of Engineers, the Florida Department of Environmental Protection, and the City of Jacksonville. ASL is currently using ESRI™ ArcGIS to generate information from a variety of different sources such as maps, well logs, soil testing, population data, natural resource information, and topographical data. ASL has produced building layouts, sewer and storm water layouts, site layouts, and site location maps. ASL has used GIS maps to highlight plumes, building construction and demolition, topography changes over time, well sampling location, groundwater flow, and areas of alleged or potential waste disposal. When public or proprietary data are not available or are not cost-effective, we have the ability to capture original spatial data by scanning, digitizing, or by field collection using GPS technology.

GIS Projects Examples:

ASL performed sediment sampling activities in the Little Econlockhatchee River in Orlando, Orange County, Florida, for the District. The desired sample transect locations were provided to ASL by the District and processed for use by the field team. The field team then navigated to each transect by hand-held Garmin GPS unit. Each transect was divided into three sample locations across the river. Samples were then collected at 2 depth intervals at the 21 sample points. Each sample location was then recorded by GPS and provided to the District for use.

ASL routinely uses ArcGIS to georeference historical aerial imagery. The images are then reviewed by the ESA staff to identify points of interest requiring further inspection during the site reconnaissance. When ASL performed a Phase I ESA of the Camp Blanding Easement property in Keystone Heights, Clay County, Florida, a potential dumping area was identified in the historical aerial imagery. Using the georeferenced images and the Avenza Maps® mobile phone application, the ESA team was able to mobilize to the area of suspected dumping and identified an area of suspicious topographic relief indicative of potential dumping activities.

ASL has also identified the delineated wetland boundary and other attribute information using GPS surveying and GIS formatting for the U.S. Army Corps of Engineers, Mobile District at Camp Blanding, Florida. ASL conducted a professional survey of the flagging positions marking the delineated wetland boundaries with associated attribute data (i.e., vegetation and acreage) using GPS technology accurate to within +/- one English unit. Using GIS technology, the surveyed wetland boundaries were overlaid onto U.S. Geological Survey infrared aerial photographs. The GIS data created for this project was in compliance with the Tri-Services Spatial Data Standards and included Federal Geographic Data Committee compliant metadata.

ASL also performed GIS project work for the Tennessee Army National Guard (TNARNG) Training Ranges (Catoosa, Milan, Smyrna, and John Sevier) and was responsible for providing an updated Facilities Master Plan (FMP) GIS database which included both spatial and attribute data of forestry management units. The FMP database included forest stand mapping with the following attributes: approximate acreage; dominant and immediately sub-dominant species present; stand density and average diameter at breast height (dbh); standing timber volumes; general determinations of age-classes present; an approximation of the number of standing snags observed; market values of standing timber; any unusual site conditions observed; any observed damage; a recordation of any habitats or specimens of particular interest; and a concise, qualitative observation of the general forest health. Using GIS technology, the surveyed forestry stands were overlaid onto aerial photographs, and included data provided by TNARNG to include surveyed site boundaries, range areas, and endangered species layers. The GIS data created for this project was in compliance with the Tri-Services Spatial Data Standards, and included Federal Geographic Data Committee compliant metadata.

I. Resumes of Key Personnel

Key staff resumes are included in Appendix B.

J. Similar Projects

ASL's similar projects are included on the District Form – Qualifications – Similar Projects.

QUALIFICATIONS — SIMILAR PROJECTS

Include this form in the response

Respondent (or a combination of the firm, individual, or project manager assigned to the work) must have successfully completed at least three similar projects within the three years immediately preceding the date set for receipt of the response, as described in the Statement of Work. (Add additional sheet for optional additional completed projects.)

Completed Project 1:

Agency/company: St. Johns River Water Management District (SJRWMD)/Lake County Water Authority (LCWA)

Current contact person at agency/company: Carey Maxwell, SJRWMD / Ron Hart, LCWA

Telephone: 386-329-4398 Fax: _____ Email: cmaxwell@sjrwmd.com

Address of agency/company: 4049 Reid Street, Palatka, FL 32177

Name of project: Lake Denham Muck Farm, Phase I and II ESA

Description: ASL completed Phase I and II ESA activities on 768 acres across seven parcels for the SJRWMD and LCWA. Challenges included limited access, submerged land, and drainage canals. Multiple areas of concern were documented due to former agricultural use, USTs/ASTs, and improper storage. Soil, groundwater, and sediment were assessed.

Project value: $94,563.17 (total) Start date: 10/2018 (month/year) Completion date: 08/2019 (month/year)

Name(s) of assigned personnel:

Project manager: Sarah Riffe, PG, CHMM

Others: Kevin Ashman, PG, Justin Vojak, Frank Redway, Karen Kalka

Completed Project 2:

Agency/company: Florida Department of Environmental Protection, Team 6

Current contact person at agency/company: Georgia Weller, Ecology & Environment/Team 6

Telephone: 850-877-1133, ext 3705 Fax: _____ Email: gweller@ene.com

Address of agency/company: 2002 Old St. Augustine Road, Tallahassee FL 32301

Name of project: Franks Farms (Former Hoopers Farms), Site Assessment and Remedial Action

Description: ASL completed site assessment activities and is currently performing remedial activities to address a petroleum discharge. Remedial actions include excavation of a trench to allow groundwater to naturally aerate for one year. Soil was stockpiled on site and protected by a chain-link fence.

Project value: $91,223.10 (to date) Start date: 09/2015 (month/year) Completion date: ongoing (month/year)

Name(s) of assigned personnel:

Project manager: Jim Smith, PE

Others: Sarah Riffe, PG, CHMM, Justin Vojak, Allyson Charbonnet, PhD, Scott Hughes, PSSC, Kathy Leggoe, PG, Paul Sartori, Karen Kalka

QUALIFICATIONS — SIMILAR PROJECTS

Continued

Include this form in the response

Completed Project 3:

Agency/company: Duval County Public Schools (DCPS)

Current contact person at agency/company: Robbie Bumpers, Director of Projects and Environmental Services

Telephone: 904-390-2846 Fax: 904-390-2265 Email: bumperse@duvalschools.org

Address of agency/company: 1701 Prudential Drive, Jacksonville, FL 32207

Name of project: Industrial Hygiene and Environmental Consulting Services Contract

Description: ASL provides industrial hygiene, health and safety, and environmental consulting services to assist in identifying and eliminating environmental hazards that may impact the health of students, teachers, and staff. Services include IAQ activities, LBP and radon surveys, Phase I and II ESAs, site assessment, remedial action plan implementation, and more.

Project value: $165,949.00 Start date: 02/2019 (month/year) Completion date: ongoing (month/year)

Name(s) of assigned personnel:

Project manager: John Hubbard, LAC, CSP

Others: Frank Redway, Paul Fitch, PE, LAC, Kathy Leggoe, PG, Tim Cullen

Tab 3: Past and/or Present Experience on Projects of this Type

Tab 3. Past and/or Present Experience on Projects of this Type

Over the past 15 years, the District and ASL have developed a strong win-win working relationship. Our experience working with the District on your four previous Environmental Assessment of District Lands contracts will eliminate any potential learning curve, providing a continuous and seamless integration of services under this new contract. The ASL Team offers the following advantages:

- Specialized experience executing ESA and environmental risk management programs for public sector land acquisition programs, including the District.
- Performed over 500 Phase I and Phase II ESA projects in Northeast and Central Florida over the past 5 years.
- In-depth understanding of the various technical and regulatory issues as well as the geological site conditions encountered throughout the District.
- In-house management team for this contract with 163 years of combined professional experience performing turn-key environmental site assessment and remediation operations for public land acquisition programs.
- No learning curve – ASL's program team for this contract has successfully completed 108 work orders on our previous and existing District ESA contracts.

Specialized Experience

ASL's core area of excellence is providing environmental due diligence and risk management services to facilitate real estate transactions. We specialize in providing these services to Florida's Water Management Districts, and other public sector agencies and authorities at the federal, state, and local levels. We also continue to successfully provide ESA services to numerous private and public sector clients including: private developers, real estate companies, banks, law firms, Fortune 500 companies, engineering firms, municipalities, school boards, electric authorities, transportation and port authorities, airport authorities, the Florida Department of Transportation, FDEP, and Southwest Florida Water Management District. At the federal level, our clients have included the U.S. Navy, U.S. Army Corps of Engineers, Florida National Guard, National Park Service, U.S. Environmental Protection Agency, U.S. Forest Service, Federal Aviation Administration, U.S. Air Force, and General Services Administration (GSA). Of the over 150 environmental assessment and remediation projects we have performed within the past 12 months, 69 have been in support of public sector land acquisition and management programs.

Our Reputation

ASL is a full-service environmental engineering and remediation firm, with proven capabilities working with the District, FDEP and other regulatory agencies. For 28 years, we have delivered successful assessment and remediation services under the FDEP's Petroleum Cleanup Program. In recognition of our reputation for superior project performance, ASL was awarded a State Lead Petroleum Cleanup contract by the Bureau of Waste Cleanup in June of 2004 and again in 2014. We were also awarded two continuing contracts with FDEP's Division of State Lands to provide ESA and Remediation Services in support of FDEP's preservation land acquisition program. Our contracts were in support of both conservation easement and fee simple land type acquisitions.

Our customers are our most valued asset and we strive to develop long term win-win relationships. Over the past 28 years we have provided environmental assessment and remediation services for the City of Jacksonville (COJ) Public Works Department under three continuing contracts. We have performed Phase I and II ESA services at over 100 properties for the COJ's Real Estate Department ranging in size from less than one acre to hundreds of acres. We have a company reputation for providing superior client service, and for bringing projects in on-time and within budget.

Client Satisfaction

ASL has enjoyed steady growth and financial success which was achieved not only through top quality, sound management practices and fiscal understanding, but also through our personal enthusiasm working for our clients. Over 90% of our existing projects are being performed for repeat or referral clients. Our proven track record of performance and proactive involvement in Florida's environmental industry provides ASL and our clients with a unique understanding of environmental due diligence and cleanup issues throughout Florida. Our staff has been actively involved in the FDEP's Petroleum Cleanup and Brownfields Redevelopment programs since their inception. As a stakeholder in the regulatory process pertaining to contaminated lands, we know the importance of understanding complex site conditions in order to deliver the most cost effective and technically sound recommendations and conclusions.

A. Past or Present Experience of the Firm and Proposed Key Project Personnel on Projects of the Type Listed in the Statement of Work

ASL has 28 years of corporate experience providing all the services required under this contract. This includes the performance of over 500 Phase I and II ESA projects in the past five years. Of these projects, 75% were performed in Northeast and Central Florida. Table 3.1 illustrates related projects that ASL has completed over the past five years.

Table 3.1 Number of Similar Projects Initiated since 2016

Project Type	Total
Phase I ESA	479
Phase II ESA	91
Contamination Assessment	141
Soil/Groundwater Testing	95
Remediation/Source Removal	82
Asbestos/LBP/IH/Health & Safety	247
Total	1,135

SJRWMD Project Experience

ASL is very pleased and thankful to currently be performing this SOW for the District. Over the past 15 years, ASL has executed 108 Work Orders demonstrating our ability to provide the full range of services required under this contract, including Task A – Environmental Site Assessments, Task B – Environmental Sampling Soil, Sediment, Groundwater and Surface Water, and Task C – Other Environmental Assessment Tasks (Table 3.2). ASL has also performed Phase I ESAs for the Southwest Florida Water Management District.

Table 3.2 SJRWMD Projects October 2005 – September 2020

W.O. #	Project Description	SOW Task Area
	Contract SJ301F0	
01	Compton Harris Phase I ESA	A
02	Kings Road /Logan Property Phase I ESA	A
03	Compton Harris Small Arms Firing Range (SAFR) Limited Phase II Assessment	B
04	Harris Bayou Groundwater Assessment and Monitoring	B
05	Harris Property Phase I ESA	A
06	Supplemental Site Assessment Compton Harris	B
07	Sawgrass Lake Cattle Dip Vat Soil/Groundwater Assessment	B
08	464 Property Phase I ESA	A
09	Compton Source Removal Remediation and Report	C
10	Joshua Creek Phase I ESA	A
11	Compton SAFR Additional Remediation	C
12	Neighborhood Lakes Background Sampling	B
13	Lake Apopka NSRA Soil Remediation	C
14	Joshua Creek Phase I Addendum	A
15	Harris Bayou Groundwater Modeling/Monitoring	C
16	Bull Creek Limited Phase I ESA	A
17	Neighborhood Lakes Phase III	B
18	Corrigan Phase I and II and Soil Assessment	A, B

Table 3.2 SJRWMD Projects October 2005 – September 2020		
W.O. #	**Project Description**	**SOW Task Area**
19	Neighborhood Lakes Remedial Action	C
20	Moccasin Island Groundwater & Soil Assessment	B
21	Apopka Lock and Dam Asbestos and LBP Survey	C
22	Lake Apopka NSRA Silt Fence Removal	C
23	Geiger Property Phase I ESA	A
24	Geiger Property Phase I ESA (New Fiscal Year)	A
25	Harris Bayou GW Monitoring and Reporting	C
26	Yarborough Ranch Phase I ESA	A
27	Moccasin Island Cattle Dip Vat Assessment	A
28	Green Spring Asbestos and LPB Survey	C
29	Sawgrass Cattle Dip Vat Soil/Groundwater Assessment	B
30	Sembler Property Phase I ESA	A
31	N Sebastian Phase I ESA	A
32	Corrigan update Phase I ESA	A
33	Kaufman and Young Properties Phase I ESA	A
34	Plum Property Phase I ESA	A
35	Cole Property Phase I ESA	A
36	Medlock Property Phase I ESA	A
37	Motes Property Phase I ESA	A
38	Bloom/Frank Property Phase I ESA	A
39	Sawgrass Lake Cattle Dip Vat Investigation Additional Environmental Site Assessment	B
40	Moccasin Island Restoration Area Cattle Dip Vat Additional Assessment	B
41	Bulk Scale Soil Collection for University of Florida Mesocosm Study	B
	Contract 25004	
01	Sawgrass Lakes Remedial Services	C
02	Bulk Soil Collection (UF Mesocosm Study)	B
03	Titus Property Phase I ESA	A
04	Rybolt Property Phase I ESA	A
05	Moccasin Island Restoration Area Cattle Dip Vat Additional Surface Water & Groundwater Monitoring	B
06	Hart Property Phase I ESA	A
07	Fellsmere Joint Venture Remedial Services	C
08	Additional Groundwater Well Installation and Sampling Sawgrass Lake and Moccasin Island Restoration Area, Cattle Dip Vat No. 1	B
09	Fellsmere Joint Venture Remedial Services	C
10	Halloran Property Phase I ESA	A
11	Clonts Property Phase I ESA	A
12	Newmans Lake Conservation Area Lead Contaminated Soil Delineation	B
13	Sawgrass Lake Soil/Groundwater Assessment	B
14	West Augustine Property Phase I ESA	A
15	Moccasin Island Restoration Cattle Dip Vat I Monitoring	C
16	BJ Bar Ranch Phase I ESA	A
17	Peters Property I A2010-0I7 Phase I ESA	A
18	Newnans Lake Conservation Area	C
19	Newnans Lake Conservation Area	C
20	Moccasin Island Restoration Cattle Dip Vat I Monitoring	C
21	Sawgrass Lake Cattle Dip Vat Groundwater Sampling	B
22	301 Land Investments, LLC Phase I ESA	A
23	Twelve Mile Swamp Phase I ESA	A

Table 3.2 SJRWMD Projects October 2005 – September 2020		
W.O. #	**Project Description**	**SOW Task Area**
24	Sutton Ranch Property Phase I ESA	A
25	301 Land Investments Parcel B Phase I ESA	A
26	Clonts Property – Parcel 2 Phase I ESA	A
	Contract 26975	
01	Lukas Ranch Phase I ESA	A
02	Fellsmere Joint Venture Parcel D Phase I ESA	A
03	Hal Scott Preserve Emergency Response Interim Source Removal	C
04	Florida South College Property Phase I ESA	A
05	Rainey Pasture Property Phase I ESA	A
06	Lester Exchange Property Phase I ESA	A
07	Clark Bay Addition Property Phase I ESA	A
08	Former Little Cameron Ranch TSP	A
09	Former Little Cameron Ranch Limited Phase II ESA	B
	Contract 27995	
01	Lysohir Property Phase I ESA	A
02	Heather Island Property Phase I ESA	A
03	Rainey Exchange Property Phase I ESA	A
04	Rainey Exchange Property Phase II ESA	A, B
05	Harris Bayou Soil Groundwater Testing	B
06	Little Econlockhatchee River Sediment Sampling	B
07	Silver Springs Phase I ESA	A
08	Silver Springs Phase II ESA	A
09	Graves Brothers Soil Groundwater Sampling	B
10	Fellsmere WMA SPCC	C
11	Hart Family Trust Property Phase I ESA	A
12	Hart Family Trust Property Phase II ESA	A
13	Roper Exchange Property Phase I ESA	A
14	Lake Apopka Field Station Effluent Sampling	B
15	Sun Land Citrus Property Phase I ESA	A
16	Sunnyhill Restoration Area Source Removal	B, C
	Contract 32044	
01	Septic Tank Replacement Pilot Project Sampling	B
02	Clay County Easement; Seamark Ranch; and Camp Blanding Easement Phase I ESAs	A
03	Sumner Property Phase I ESA	A
04	Sumner Property Phase II ESA	A, B
05	Lake Denham Muck Farm Phase I ESA	A
06	Spoil Pile Sampling for Flagler County Wetland Restoration Project	B
07	Marsh Flow Way Pump Basin Sediment Sampling	B
08	Orlando (Apopka) Service Center Phase I ESA	A
09	Mary A Flow Way Sediment Sampling Brevard Co	B
10	Apopka Service Center Phase II ESA	A, B
11	Freeman Property; Styduhar Property; and Wedgeworth Property Phase I ESAs	A
12	Dike Ventures Property Phase I ESA	A
13	Buck Lake-Dozier Property Phase I ESA	A
14	Volusia Blue Spring Property Phase I ESA	A
15	Hal Scott Partin Parcel Property Phase I ESA	A
16	Lagemann Avick Property Phase I ESA	A

Our resulting comprehensive knowledge of local site conditions and environmental regulatory issues allow us to deliver best-in-class ESA project performance to the District. ASL has repeatedly demonstrated our ability to deliver multiple environmental site assessment projects to city, state, and government agencies on schedule and within budget, including the District. One of the key reasons for this distinction is our ability to combine powerful technical capabilities with responsive, personal, local service. The following projects demonstrate the experience of our firm and staff assigned to the District ESA contract.

Experience of the Firm and Key Personnel

Lake Denham Muck Farm, Phase I and II ESA, St. Johns River Water Management District & Lake County Water Authority

Scope of Work:
Task A: ESAs
Task B: Environmental Sampling

ASL completed a Phase I ESA for the St. Johns River Water Management District and Phase II and Additional Phase II ESAs for the Lake County Water Authority of seven contiguous parcels of land totaling approximately 768 acres located in Leesburg, Lake County, Florida. The former muck farm was developed with multiple structures, pump stations, and levees. The Phase I ESA was prepared in accordance with the scope and limitations of ASTM Standard E 1527 and 40 CFR Part 312. Sampling activities conducted as part of the Phase II ESA were conducted in accordance with the guidelines established in DEP-SOP-001/01 FS 220, FS 3000, and FS 4000. ASL recorded sample locations using GPS technology.

Challenges presented in this project included the evaluation of numerous parcels over a large geographical extent with limited access to remote areas of the site due to woods, submerged lands, and drainage canals. ASL coordinated with the District to prioritize a scope of work to best address the concerns identified at the site. Multiple areas of concern were identified at the site. On-site concerns were noted from the former agricultural use of the site, former underground and aboveground petroleum product storage, and the improper use and storage of petroleum products observed around the site.

Based on the results of the Phase I ESA, ASL performed Phase II and Additional Phase II activities which included sediment sampling, soil boring advancement, soil sampling, monitor well installation, and groundwater sampling. ASL also worked with the client to develop a suitable and cost efficient sampling plan to assess the soil and groundwater in the former muck fields over a large geographic extent.

Team Members Involved: Sarah Riffe, Kevin Ashman, Justin Vojak, Frank Redway, Karen Kalka

Lake Apopka Field Station, Pilot Project Wastewater Sampling, St. Johns River Water Management District

Scope of Work:
Task B: Environmental Sampling

ASL completed wastewater sampling activities associated with the Lake Apopka Field Station Septic Tank Replacement Pilot Project. The existing septic system at the Field Station was replaced with an OnSyte wastewater treatment system and a pilot test was conducted to monitor the reduction in nitrogen and phosphorus released to the environment.

ASL collected weekly wastewater samples from the existing septic system for five weeks prior to its removal and from the OnSyte system for eight weeks after its installation. Samples were then collected monthly over the following year of operation. The sampling activities were conducted over a period of 18 months and spanned two continuing services contracts (27955 and 32044). ASL performed the wastewater sampling activities in accordance with the guidelines established in DEP-SOP-001/01 FS 2400 and submitted the samples to a NELAP-certified laboratory for analysis. Results of the laboratory analyses were provided to the District.

Team Members Involved: Sarah Riffe, Justin Vojak, Karen Kalka

Hydraulic Oil Spill Source Removal, Sunnyhill Restoration Area, St. Johns River Water Management District

Scope of Work:
Task B: Environmental Sampling
Task C: Other Environmental

ASL completed source removal activities for the District in response to a release of approximately 25 gallons of hydraulic oil from a tractor trailer as a result of a vehicle accident in the parking area of the Sunnyhill Restoration Area. Effective communication between the District and ASL facilitated a rapid response in accordance with 62-780, FAC, which minimized the extent of the impacts, cleanup costs, and regulatory and administrative compliance burdens.

ASL profiled the waste prior to the excavation activities for expedited disposal. A total of approximately 14 tons of impacted soil was removed and transported off-site in one day. Field screening was performed and analytical results for soil samples collected from the sidewalls and floor of the excavation confirmed that all impacted soil was removed. ASL oversaw the backfilling of the excavation by District personnel as a cost saving measure. A Source Removal Report was prepared for District submittal, and no further action was required.

Team Members Involved: Sarah Riffe, Kevin Ashman, Karen Kalka

Flagler County Wetland Restoration, Spoil Pile Sampling, St. Johns River Water Management District

Scope of Work:
Task B: Environmental Sampling

ASL conducted soil sampling activities in support of a proposed wetland restoration project in Flagler County, Florida. Soil samples were collected to evaluate contaminant concentrations within the spoil piles of the historic mosquito control ditches. The project provided soil quality data to the District for risk management evaluation prior to the restoration activities.

ASL performed the soil sampling activities in accordance with the guidelines established in DEP-SOP-001/01 FS 3000 and submitted the samples to a NELAP certified laboratory for analysis. ASL navigated to the District specified sampling locations by boat using GPS technology. The final sampling locations were recorded in the UTM coordinate system and provided to the District. Results of the laboratory analyses were provided to the District to assist with their project goals.

Team Members Involved: Sarah Riffe, Matthew Butterworth, Karen Kalka

Marsh Flow Way Pump Basin, Sediment Sampling, St. Johns River Water Management District

Scope of Work:
Task B: Environmental Sampling

ASL conducted sediment sampling activities in the Marsh Flow Way Pump Basin within the Lake Apopka North Shore Restoration Area located in Astatula, Lake County, Florida. The project provided necessary spoil material profiling data to the District prior to planned dredging activities. ASL collected sediment samples at three depth intervals from three locations within the pump basin as specified by the District. The samples were collected using a 2-inch nominal diameter core sampler equipped with new clear liners, a core catcher, and a valve to help retain the sample in the liner. The thickness of the unconsolidated sediment layer was measured at each location and samples collected for laboratory analysis. ASL performed the sediment sampling activities in accordance with the guidelines established in DEP-SOP-001/01 FS 4000 and submitted the samples to a NELAP-certified laboratory for analysis. ASL navigated to the District specified sampling locations by boat using GPS technology. Results of the laboratory analyses were provided to the District to assist with their project goals.

Team Members involved: Sarah Riffe, Karen Kalka

Franks Farms (Former Hooper Farms), Site Assessment and Remedial Action, Florida Department of Environmental Protection Petroleum Restoration Program

Scope of Work:
Task A: ESAs
Task B: Environmental Sampling
Task C: Other Environmental

ASL completed the site assessment and is currently performing remedial activities of a petroleum hydrocarbon discharge that is eligible for state-funded cleanup through the FDEP Petroleum Restoration Program located on District property. The Site Assessment and Remedial Action Plan were completed in accordance with Chapter 62-780 FAC.

The site is comprised of two areas (North Area and South Area) formerly utilized for petroleum storage. Challenges presented in this project included a land use restriction related to the former remediation of pesticide impacts, a non-contiguous area of investigation, and the site's remote location in wooded areas. ASL coordinated with the FDEP and the District to minimize the cost of cleanup while maintaining use of the property for the District and public access.

Upon completion of the site assessment, ASL initiated remedial action which consisted of the excavation of a trench to passively aerate the impacts to groundwater in the south area. ASL is currently coordinating the site restoration activities in accordance with the current land use restrictions.

Team Members Involved: Sarah Riffe, Jim Smith, Justin Vojak, Allyson Charbonnet, Scott Hughes, Kathy Leggoe, Paul Sartori, Karen Kalka

Sun Land Citrus Property, Phase I ESA, St. Johns River Water Management District

Scope of Work:
Task A: ESAs

ASL completed a Phase I ESA of approximately 600 acres of primarily wooded land located in Eustis, Lake County, Florida. The Phase I ESA was prepared in accordance with the scope and limitations of ASTM Standard E 1527 and 40 CFR Part 312. ASL navigated the site and recorded the locations of photographs and site features using GPS technology.

Potential off-site concerns were noted from the historical apparent agricultural use visible in historical aerial photographs on some of the adjoining properties (pastureland or possible cultivation of hay). The potential use of agricultural chemicals would have historically been unlikely, and no chemical storage building or sheds were observed at the time of the site reconnaissance.

Team Members Involved: Sarah Riffe, Robert Young, Karen Kalka

Former Little Cameron Ranch, TSP and Limited Phase II ESA, St. Johns River Water Management District

Scope of Work:
Task A: ESAs
Task B: Environmental Sampling

ASL completed a TSP and Limited Phase II ESA of 30 contiguous parcels of land totaling approximately 861 acres located in Sanford, Seminole County, Florida. The site was undeveloped, partially wooded land. The TSP was prepared in accordance with the scope and limitations of ASTM Standard E 1528-14 for TSPs.

Challenges presented in this project included the evaluation of numerous parcels over a large geographical extent with limited access to remote areas of the site due to woods, submerged lands, and drainage canals. ASL coordinated with the District to prioritize a scope of work to best address the concerns identified at the site.

Potential on-site concerns were noted from the possible presence of a cattle dipping vat reported at the site by a former adjoining property owner. Potential off-site concerns were noted from the apparent citrus development of multiple western adjoining properties since at least 1966.

Based on the results of the TSP, ASL performed Limited Phase II ESA activities which included advancing soil borings and collecting soil samples for laboratory analyses in the vicinity of the suspected former cattle dipping vat. Additionally, ASL installed a shallow temporary monitor well and collected a groundwater sample. A surface water and sediment sample were also collected from a creek bordering the property. Arsenic was reported in one soil sample at a concentration slightly exceeding the cleanup target level based on residential exposure limits.

Team Members involved: Sarah Riffe, Karen Kalka

Rainey Exchange, Phase I and II ESA, St. Johns River Water Management District

Scope of Work:
Task A: ESAs
Task B: Environmental Sampling

ASL completed Phase I and II ESAs of approximately 715 acres of partially wooded land located in Marion County, Florida. The site was developed with a dilapidated hunt camp structure and an open shed structure. The Phase I ESA was completed in general accordance with ASTM Standard E 1527-13. On-site concerns were noted from stained soils observed in the open shed structure and a vessel of unknown origin located on the southwestern portion of the site. Off-site concerns were also noted from a UST facility formerly located on the southwestern adjoining property.

Based on the results of the Phase I ESA, ASL performed a Phase II ESA which included an interim source removal of oil-stained soils, and collection of confirmation soil and groundwater samples. Additionally, ASL advanced two temporary shallow wellpoints along the southwestern property boundary and collected groundwater samples to address potential off-site impacts to the site. Laboratory analyses confirmed no impacts to the site remained from the oil stained soils. Additionally, no impacts to the soil or groundwater were detected at the property boundary in the selected locations.

Team Members involved: Sarah Riffe, Karen Kalka

Indoor Air Quality Assessment, District Offices, St. Johns River Water Management District

Scope of Work:
Task C: Other Environmental

ASL conducted a post-remediation IAQ assessment, air sampling for mold, and surface sampling for fecal contamination within the District's Executive and Laboratory Buildings. Mold assessment activities were conducted under the direct supervision of a Department of Business and Professional Regulation (DBPR)-Licensed Mold Assessor.

ASL personnel used a calibrated Fluke IAQ meter to record temperature, relative humidity, and carbon dioxide readings within and outside the buildings. The readings were used to evaluate for conditions that may provide an environment for mold proliferation and evaluate the operation of the heating, ventilation, and cooling (HVAC) system. Air sampling for mold spore concentrations consisted of collecting spore trap air samples using Air-O-Cell™ impactor slide cassettes to provide an approximation of airborne microbial spore concentrations inside each building and from outside. ASL personnel also collected surface samples using laboratory provided sterile swabs. Swab samples were collected from various types of floors and submitted to EMSL for analysis by Modified SM 9223B, Modified ASTM Method D6503-99, and EMSL Method M117 for the presence or absence of bacteria commonly associated with fecal contamination, specifically for *Total Coliform*, *E. coli*, and *Enterococci* bacteria. The results of the assessment showed the initial remediation efforts were ineffective and additional cleaning was recommended for the health of building occupants.

Team Members involved: John Hubbard

Heather Island Property, Phase I ESA, St. Johns River Water Management District

Scope of Work:
Task A: ESAs

ASL completed a Phase I ESA of an approximate 322-acre parcel of partially wooded and submerged land located in Marion County, Florida. The Phase I ESA was completed in general accordance with ASTM Standard E 1527-13. The site was undeveloped and access to the site was not available by land vehicle. ASL coordinated with the District who provided access to the site via airboat. ASL reviewed multiple previous ESAs provided by the District on surrounding properties as part of this assessment. No evidence of RECs was identified in connection with the property.

Team Members involved: Sarah Riffe, Karen Kalka

Graves Brothers Property, Soil & Groundwater Sampling, St. Johns River Water Management District

Scope of Work:
Task B: Environmental Sampling

ASL performed soil and groundwater sampling activities at the Graves Brothers Property, an approximate 227-acre abandoned citrus grove in Sebastian, Indian River County, Florida. The sampling was conducted as a preliminary site characterization to evaluate the property for use in a dispersed water management project. The public-private partnership is working to accomplish water storage and water quality improvements on private agricultural lands. ASL navigated to 15 District-specified sample locations using GPS technology and geographic coordinates provided by the District, and collected soil samples at a depth interval of zero to one foot below land surface (BLS) using decontaminated stainless steel hand augers. ASL also installed one temporary shallow monitor well and collected a grab groundwater sample. ASL performed the sampling activities in accordance with the guidelines established in DEP-SOP-001/01 and submitted the samples to a NELAP-certified laboratory for analysis.

The results of the laboratory analyses showed concentrations of contaminants of concern above the cleanup target levels established by the FDEP. Results of the sampling event were summarized in a Project Completion Report and presented to the District for review and approval.

Team Members involved: Sarah Riffe, Karen Kalka, Paul Fitch

Environmental Assessment of District Lands, St. Johns River Water Management District

Scope of Work:
Task A: ESAs
Task B: Environmental Sampling
Task C: Other Environmental Assessment

ASL was awarded five competitive 3-year continuing services contracts with the SJRWMD in October 2005, August 2008, August 2011, September 2014, and September 2017. Services included, but are not limited to, Phase I ESAs, Phase II through IV services, radon and asbestos surveys, contaminated soil and groundwater assessments, remediation design, remedial clean-up actions, groundwater monitoring, and hydrologic fate and transport modeling. ASL has completed or is currently conducting work under 74 work orders and over 40 Phase I and Phase II ESAs totaling over 34,000 acres.

Team Members involved: Sarah Riffe, Frank Redway, Allyson Charbonnet, Robert Young, Paul Fitch, Karen Kalka, Kevin Ashman, Justin Vojak, Tim Cullen, Matthew Butterworth, Jim Smith, Scott Hughes, Paul Sartori, John Hubbard

Compton Harris Phase I ESA, Site Assessment, & Remedial Action, Putnam County, St. Johns River Water Management District

Scope of Work:
Task A: ESAs
Task B: Environmental Sampling
Task C: Other Environmental Assessment

ASL identified a small arms shooting range as a recognized environmental condition during a Phase I ESA completed for the District. Soil contaminated with lead at concentrations of up to 32,600 milligrams/kilogram, and groundwater contaminated with lead at concentrations of up to 99 micrograms/liter were identified and successfully delineated horizontally and vertically in the shooting range target areas during subsequent assessment activities completed by ASL. In addition to exceeding Soil and Groundwater Cleanup Target Levels, results of Toxicity Characteristic Leaching Procedure (TCLP) indicated the soil from the berms exceeded the hazardous waste toxicity threshold.

ASL and the District Project Manager discussed methods to clean up the site to levels which would facilitate beneficial reuse of the property, without the expense and regulatory burden of generating a large amount of hazardous waste from the site. ASL completed bench-scale treatability tests on soil samples collected from the berms using proprietary stabilization methods involving treatment with a mixture of magnesium oxide and calcium phosphate, and prepared detailed engineering cost estimates for various remedial options.

Based on the results of the treatability tests the District issued a work order to clean up the site. ASL mobilized a remedial construction crew, prepared the site in a manner to prevent migration of contaminants, stabilized the contaminated soil in-place with the proprietary admixture rendering it non-hazardous, and disposed of the soil off site as non-hazardous waste at a substantial cost savings over traditional disposal methods. As an additional environmental benefit, bullets from the impacted soil were physically removed from the waste stream and recycled.

ASL completed follow-up assessment to document that all lead-impacted soil was successfully removed and conducted groundwater monitoring which confirmed, that in the absence of the continuing source of contamination in the target berms, the concentration of lead in groundwater attenuated to levels that were less than the Florida groundwater cleanup target levels and USEPA drinking water criteria. FDEP issued a Site Rehabilitation Completion Order for the site in December 2009.

Segregation, physical removal of lead particles, and chemical stabilization of lead-impacted soil resulted in an estimated cost savings of approximately $100,000 versus conventional disposal methods. In addition, a significant amount of lead was removed from the waste stream for recycling and reutilization.

Team Members involved: Jim Smith, Paul Sartori, John Hubbard

Confidential Site, Phase I and II ESA, Hines Limited Partnership

Scope of Work:
Task A: ESAs
Task B: Environmental Sampling

ASL completed Phase I and II ESAs of five contiguous parcels of partially wooded pastureland totaling approximately 533 acres located in Pasco County, Florida. The site was developed with a steel structure, three open-air wooden structures, and two concrete well pump-houses. The Phase I ESA was completed in general accordance with ASTM Standard E 1527-13. Challenges presented in this project included accessing portions of the site following several large rain events in the Central Florida area. Wet areas of the eastern portion of the site were not accessible by drill rig and soil and groundwater sampling had to be performed with hand augers carried on foot over large, low lying areas.

On-site concerns were noted from a former railroad line which occupied the northern portion of the property from at least 1938 to at least 1965. Off-site concerns were noted from the Redding SLF (Central Landfill) SWF/LF facility formerly located on the western adjoining property. Off-site concerns were also noted from an Aboveground Storage Tank (AST)/Leaking Aboveground Storage Tank (LAST)/LUST facility located on the western adjoining property. A discharge of diesel fuel was reported at this facility approximately 120 feet west of the site's nearest property boundary. The full extent of the soil contamination associated with the discharge on the western adjoining property had not been delineated, and no groundwater assessment had been performed.

Based on the results of the Phase I ESA, ASL performed a Phase II ESA which included advancing soil borings along the railroad track and along the western boundary of the property. Soil samples were collected at one-foot intervals for screening with a calibrated OVA-FID. ASL then collected soil samples for laboratory analysis. Additionally, ASL installed four shallow temporary wellpoints and collected groundwater samples from each wellpoint. Laboratory analysis indicated concentrations of PAHs were present in groundwater at concentrations exceeding FDEP's Groundwater Cleanup Target Levels. After a second round of groundwater sampling to determine the extent of the groundwater contamination, ASL worked with the client and their legal counsel to establish a revised property boundary eliminating the impacted area from the transaction, allowing the property transaction to proceed without delays and protecting the client from future liability associated with the groundwater impacts to the north.

Team Members involved: Karen Kalka, Sarah Riffe

Reed Canal Site Phase I & II ESA, City of South Daytona

Scope of Work:
Task A: ESAs
Task B: Environmental Sampling

ASL completed a Phase I ESA of an approximate 9-acre parcel of land located at 746 and 750 Reed Canal Road, South Daytona, Volusia County, Florida. At the time of the investigation, the site was primarily vacant land. On-site concerns were noted due to the inability to determine the source of the fill material for the former retention pond. A Phase II ESA subsequently conducted by ASL consisted of advancing soil borings; collecting and field screening soil samples with an OVA; and collecting soil samples for laboratory analyses.

Based on the Phase I and II ESA results, additional site assessment activities were conducted. This included the collection of soil samples to describe soil types; excavation of four test pits in the area of a former retention pond; and collection of a groundwater sample in the area of the former retention pond. Various items including concrete, asphalt, pipes, rebar, wire and wood were observed in the test pits. Based on the results of the additional site assessment, ASL recommended the proper disposal of the solid waste buried in the former retention pond. All project documents were fully accepted by both the City and the SJRWMD.

Team Members involved: Frank Redway

"On behalf of the City of South Daytona, I would like to thank you and commend you and your staff for your outstanding performance during the last two years. The services provided to the City, which most recently included a Phase I and II Environmental Site Assessments at our Reed Canal property were professionally done and very timely."

Patty Rippey, Redevelopment Director, City of South Daytona

Various Phase I and II ESAs, Trust for Public Land

ASL has been providing environmental site assessments and remediation services as a partner with the Trust for Public Land. Since January of 2002, we have completed 35 Phase I ESAs, 7 Phase II ESAs, and performed a soil source removal associated with an historic building. All of the projects were completed on-time and within budget, further demonstrating our ability to manage multiple ESA projects simultaneously. Properties ranged in size from a 3-acre out parcel for a civil war encampment to over 2,000 acres of undeveloped woodlands/silviculture property.

Scope of Work:
Task A: ESAs
Task B: Environmental Sampling
Task C: Other Environmental Assessment

Team Members involved: Sarah Riffe, Frank Redway, Kevin Ashman, Allison Blaue, Paul Fitch, Scott Hughes, John Hubbard, Miles Eckert

"ASL has been an important part of our statewide project team and has consistently provided quality Phase I and II environmental site assessments and remediation on time and budget. When requested, you have expedited project deliverables to facilitate accelerated closing schedules and have maintained close communication with our project managers to coordinate field activities and resolve any issues identified".

Peter Fodor, Regional Counsel, Trust for Public Land

Assessment Source Removal and Groundwater Monitoring, Sawgrass Lake Cattle Dip Vat, St. Johns River Water Management District

ASL performed a Limited Phase II ESA at the Sawgrass Lake Cattle Dip Vat in March 2008 and identified arsenic impacts to the soil and groundwater at concentrations in excess of Groundwater Cleanup Target Levels. A supplemental soil and groundwater assessment was completed to delineate extent of the arsenic contamination in the groundwater. Soil and concrete samples were collected for waste characterization during this mobilization to prepare for disposal of the cattle dip vat and associated impacted soil.

Scope of Work:
Task B: Environmental Sampling
Task C: Other Environmental Assessment

ASL mobilized a remedial construction crew to remove the cattle dip vat and the associated drip pad, and to excavate approximately 294 tons of arsenic-impacted soil surrounding and underlying the cattle dip vat. The access route from the road to the work area was reinforced with crushed rock, as required, to facilitate access for the machinery and dump trucks. Ruts in the access route and levee roadway from the heavy machinery and truck traffic were repaired by ASL upon completion of the excavation activities. Approximately 60 tons of crushed rock was used to maintain and repair the access road. ASL conducted additional soil and groundwater monitoring at the site in 2011. Based on the results of the additional assessment, ASL recommended NFA with institutional controls. FDEP issued an SRCO for the site under Risk Management Option II in Rule 62-780.680(2) FAC.

Team Members involved: Frank Redway, John Hubbard

Investigation and Treatment of Per- and Polyfluoroalkyl Substances (PFAS), Throughout U.S.

ASL provides a full complement of services related to the investigation and treatment of a broad list of PFAS, including perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA). We have supported multiple clients, including the US Air Force and US Army PFAS Programs, since 2013. We have established an in-house core team of professional engineers, geologists, and scientists who are dedicated to supporting our emerging contaminant program. Our experts are keenly aware of the dynamic regulatory environment that surrounds emerging contaminants. We have strong relationships with regulatory agencies that help our clients easily navigate the regulatory process. We also routinely monitor and evaluate changing state and federal regulations and advisories to ensure our clients are aware of any updates that may affect planning and site response actions. We have also participated in Restoration Advisory Board and other public and regulatory meetings related to PFAS programs.

Scope of Work:
Task B: Environmental Sampling
Task C: Other Environmental Assessment

Our emerging contaminant services include preliminary assessments, site inspections and investigations, risk screening and evaluation, pathway analysis, potable well surveys, response actions, community relations support, and groundwater and drinking water remediation. Throughout our PFAS program we have collected over 18,000 PFAS samples, investigated over 600 potential Aqueous Film Forming Foam (AFFF) release areas, investigated over 60 airport facilities and flightlines; installed over 200 whole home treatment systems and a 1,000-gallons per minute (gpm) PFAS groundwater treatment system, developed 12 PFAS-Specific SOPs, and developed over 50 PFAS site-specific field sampling work plans.

Team Members involved: Allyson Charbonnet, Joe Greaves, Tim Cullen, Justin Vojak

Remedial Investigation (RI), Former Richmond Naval Air Station (NAS) Incinerator, USACE Jacksonville, Miami, FL

Scope of Work:
Task B: Environmental Sampling
Task C: Other Environmental Assessment

ASL was contracted to prepare a RI Report to summarize the investigation conducted surrounding a former incinerator at the Richmond NAS in Miami, Florida. ASL conducted additional site assessment activities to follow up an investigation conducted by MACTEC for the FDEP. The Richmond NAS was a Lighter Than Air blimp base constructed during World War II. The base also housed and supported a multitude of fixed wing aircraft. The base consisted of barracks, officers' quarters, mess halls, and administrative buildings. It was reported that the former incinerator was used to burn the household wastes generated at the former Richmond NAS. The SI conducted by MACTEC for FDEP in 2011 identified dioxin/furans, total arsenic, barium, chromium, lead, and silver in the soil above the Chapter 62-777, FAC, residential Soil Cleanup Target Levels (SCTLs).

ASL prepared a Community Relations Plan, Work Plan, including a Data Management Plan, UFP-QAPP, APP, and SSHP for the former incinerator site. ASL held a meeting to discuss the Conceptual Site Model (CSM) and proposed scope of work with the current stakeholders. ASL prepared a TPP summary document for submittal to the USACE. ASL also maintained the Administrative File at a local library.

ASL collected a total of 32 soil samples from several soil sampling events conducted around the former incinerator. ASL recalculated the dioxin/furan concentrations detected by MACTEC and determined that no dioxin/furan concentrations exceeded the residential SCTL. During ASL's assessment, one soil sample exceeded the residential dioxin/furan SCTL; however, step-out sampling did not detect dioxin/furan concentrations exceeding the residential SCTLs. Laboratory analysis of soil samples did detect polynuclear aromatic hydrocarbons (PAHs) above the residential BaPE concentrations. Several step-out sampling events were conducted to define the extent of the Benzo(a)Pyrene Equivalent (BaPE) concentrations. ASL installed four monitor wells and collected groundwater samples from the wells. No contaminants of concern were detected in the groundwater above the Chapter 62-777 FAC, groundwater cleanup target levels (GCTLs).

ASL contracted HSWMR to conduct a focused Human Health Risk Assessment (HHRA) on the BaPE concentrations detected in the soil. HSWMR determined based on their HHRA that no risk to human health or the environment existed as a result of previous NAS activities at the former incinerator. ASL set up and conducted a public meeting to present the results of the RI. A court reporter was contracted to record the meeting. ASL's senior geologist and senior chemist participated in the public meeting. The RI Report was approved by the FDEP.

Team Members involved: Sarah Riffe, Rick Levin, Allyson Charbonnet, Justin Vojak, Scott Hughes, Karen Kalka

Restoration and Land Management – Neighborhood Lakes, Lake County, Florida

Scope of Work:
Task C: Other Environmental Assessment

In 2018, the Lake County Office of Parks and Trails retained ASL as a consultant to provide professional services in support of the Office's environmental restoration and habitat management and enhancement activities. The Office intends to perform these activities at 10 restoration sites within Lake County, with the intent of restoring natural areas for recreational purposes.

In October and November 2018, ASL performed invasive species management at the Neighborhood Lakes Preserve in Lake County, to assist the Office with vegetation preparation for a prescribed fire at the preserve. ASL applied herbicide to undesirable vegetation on 50 acres at the preserve. Camphor (*Cinnamomum camphora*) and laurel oak (*Quercus laurifolia*) were treated using cut stump, basal bark, and foliar application methods. ASL also used a modified hack and squirt method, in which the trees were girdled by chainsaw and herbicide applied to the exposed vascular system.

The Neighborhood Lakes Preserve is within a residential area. The Office directed ASL to withhold treatment of vegetation within sight of surrounding homes.

Team Members involved: Matthew Butterworth

Environmental Assessment, Engineering, and Remediation, Florida Department of Environmental Protection Petroleum Restoration Program

Scope of Work:
Task A: ESAs
Task B: Environmental Sampling
Task C: Other Environmental Assessment

As part of a 10–year contract with the FDEP Bureau of Petroleum Storage Systems, ASL is providing petroleum contamination cleanup services directly to the FDEP, including site assessment, emergency response, remedial design, and remedial implementation. ASL is currently working on 66 active purchase orders and has been awarded task assignments at over 126 sites located throughout the State of Florida.

Project operations include the entire spectrum of assessment and cleanup activities: large-scale source removals, remedial system design and construction, and pilot testing. Site cleanup operations include a wide range of remedial technologies: groundwater pump and treat, soil vapor extraction, air sparging, bio remediation, chemical oxidation, and dual phase extraction.

Team Members involved: Sarah Riffe, Allyson Charbonnet, Robert Young, Kathy Leggoe, Paul Fitch, Joe Greaves, Greg Itnyre, Justin Vojak, Tim Cullen, Emily Brown, Rick Levin, Scott Hughes, Jim Smith, Paul Sartori, Karen Kalka, Miles Eckert

Miscellaneous Environmental Remediation and Consulting Services, Continuing Contract, Jacksonville Electric Authority (JEA)

Scope of Work:
Task A: ESAs
Task B: Environmental Sampling
Task C: Other Environmental Assessment

ASL has been providing environmental services for JEA, the eighth-largest community-owned utility in the nation, for 21 years. Our scope of services have included environmental/engineering compliance support, Site Assessments, Emergency Spill Response, and Remedial Action Design and Implementation for all of JEA's electrical substations, water and wastewater treatment plants, and fuel storage/maintenance facilities throughout Duval County. Projects have included removal and replacement of USTs for over 35 water treatment plants, design of remedial action plans, emergency response, source removals, SAs for three electrical generating stations and numerous water and wastewater facilities, and engineering compliance. ASL has addressed the full range of petroleum contaminants, including sampling activities of various media including soil, sediments, groundwater, surface water and stormwater. ASL's aggressive approaches have reduced costs associated with assessment

and remediation, considerably reducing the time to achieve site cleanup and satisfying regulatory requirements. ASL's commitment to quality and cost-effective service has been the mainstay of this 21-year relationship with JEA.

Team Members involved: Frank Redway, Paul Fitch, Robert Young, Kathy Leggoe, Tim Cullen, Scott Hughes, Jim Smith, Paul Sartori, John Hubbard

Environmental Assessment, Remediation, and Groundwater Monitoring, Halifax River Development

ASL was contracted by a private developer for a project in Daytona Beach to conduct a Phase I ESA on three parcels of land totaling 4.3 acres on the Halifax River. The Phase I ESA identified four RECs: former gas station, motor vehicle maintenance facility, and dry cleaner facility on-site, and an adjacent, off-site dry cleaner facility. We then conducted a Phase II ESA identifying potentially impacted soil associated with several hydraulic lift systems.

Scope of Work:
Task A: ESAs
Task B: Environmental Sampling
Task C: Other Environmental Assessment

Prior to the property transaction and closing, ASL removed the in-ground hydraulic lift systems and provided engineering cost estimates allowing the developer to gauge potential cleanup costs prior to the property transaction. ASL excavated approximately 2,750 tons of impacted soil associated with the former gas station, hydraulic lifts, and other non-specific sources. FDEP agreed to a No Further Action status for the soil at the site.

Team Members involved: Frank Redway, Paul Fitch, Jim Smith, Kathy Leggoe, Tim Cullen, John Hubbard

Miami Harbor Section 103 Sediment Characterization, USACE Jacksonville District

ASL conducted sampling to evaluate sediment and surface water quality in the Miami Harbor and associated Ocean Dredged Material Disposal Site (ODMDS) to determine if sediment at the site was impacted by a list of contaminants that would warrant proper handling and disposal during future construction and dredging projects. ASL collected sediment samples from six locations within the proposed new work and maintenance dredging areas of the harbor and two locations off shore. Inland sediment samples were collected using either a ponar-style grab sampler or vibracore technology deployed from an 85-foot research vessel. Surface water samples were collected from a single location within the harbor to be analyzed for background water quality and to generate elutriate samples. In addition to the analysis of the sediment and surface water for chemical parameters, ASL also submitted sediment from each of the locations to be mixed with the site surface water to generate an elutriate sample. The elutriate samples were then analyzed to determine if dredging and disposal activities would mobilize contaminants into the surface water column. Sediment collected from each of the inland sampling locations was also submitted to an environmental toxicology lab to be used in a bioaccumulation study to determine the effect of exposure of organisms to the proposed dredge material.

Scope of Work:
Task B: Environmental Sampling
Task C: Other Environmental Assessment

Results of the sediment chemistry were used to prepare models that showed the predicted distribution of contaminants into the water column during the disposal of the dredged materials at the ODMDS. The results of the modeling were summarized, along with the results of the sediment, water, bioassay, and tissue chemistry, and presented to the USACE and EPA to determine if the dredged material from the Miami Harbor were suitable for off shore disposal.

Team Members involved: Frank Redway

Lake Apopka Lock and Dam, Asbestos and Lead-Based Paint Assessment, St. Johns River Water Management District

Scope of Work:
Task C: Other Environmental Assessment

ASL completed asbestos and lead-based paint sample collection and reporting for the Lake Apopka Lock and Dam site. This District project consisted of collecting potential asbestos containing materials from a 50+ year old residence and submitting the samples to an approved laboratory. ASL personnel also used an XRF device to screen surfaces for lead-based paint and collected paint chips for confirmatory analysis by an approved laboratory. Draft and final reports were developed and submitted to the District.

Team Members involved: Paul Fitch

Contamination Assessment Remediation (CAR) Contractor, City of Jacksonville

Scope of Work:
Task A: ESAs
Task B: Environmental Sampling
Task C: Other Environmental Assessment

ASL was awarded a 3-year term professional services contract to provide contamination assessment and remediation services for various city owned properties and agencies of the City of Jacksonville. The program included over 10 separate user agencies and 162 task assignments over a three-year period from 2003-2006 and over 70 task assignments over a three-year period from 2010-2013, addressing a wide variety of complex contamination assessment and cleanup issues.

Projects have included site assessment services for over 100 parcels acquired as part of the Sports Complex Parking Area Land Acquisition; soil and groundwater investigations at a lime disposal site; soil and groundwater investigations at a former refinery site located in downtown Jacksonville; preparation of an Ash Management Plan for contractors when incinerator ash is discovered during site construction activities; removal and disposal of ash material as part of dredging operations along Moncrief Creek; removal of underground storage tanks; site investigation and risk assessment activities for a proposed downtown park; and Phase I and II ESAs, and asbestos and lead-based paint surveys for various real estate acquisition projects.

Team Members involved: Frank Redway, Paul Fitch, Robert Young, Kathy Leggoe, Tim Cullen, Scott Hughes, Jim Smith, Paul Sartori, John Hubbard

New York Deli – Petroleum Soil and Groundwater Assessment and Remediation, FDEP

Scope of Work:
Task B: Environmental Sampling
Task C: Other Environmental Assessment

ASL conducted soil and groundwater assessment and remediation activities for petroleum contamination at New York Deli located in downtown Orlando, Florida. ASL worked closely with the City of Orlando, the FDEP, the FDOT, and the site owner to complete the assessment activities, which included collecting samples at the site and in the right of ways of Colonial Drive and Orange Avenue. ASL also coordinated with the Orlando Sentinel to share data collected from monitor wells installed during their independent groundwater investigation. Following the completion of the soil and groundwater assessment, ASL conducted source removal and tank closure activities by installing sheet piling at the walls of the excavation to protect the infrastructure surrounding the dig area. Once the site was backfilled and resurfaced, ASL replaced the monitor wells to monitor the effect of the source removal. Due to the location of underground and overhead utilities, public sidewalks, and property boundaries, the source removal activities were unable to excavate all of the hydrocarbon-impacted soils. ASL proposed to install a remedial system to

treat any remaining impacted soils and the groundwater at the site. Because the site is an active restaurant, ASL conducted all assessment and remediation activities on a schedule that had the least amount of impact to the business.

ASL's remediation system design was based on our in-depth understanding of our client's goals, needs, and objectives and our extensive experience with this type of work. We were able to design an efficient and effective way to complete the project by installing the groundwater remediation system in three stages to allow constant access to the restaurant during remedial activities. The small size of the property and its high profile location at a major intersection in downtown Orlando are an example of our ability to complete complex scopes of work with limited space while having minimal impacts on local businesses and vehicle and pedestrian traffic.

Team Members involved: Paul Fitch, Sarah Riffe, Frank Redway, Kathy Leggoe, Scott Hughes, Jim Smith

Industrial Hygiene & Environmental Consulting Services on an Annual Contract Basis, Duval County Public Schools (DCPS)

Scope of Work:
Task A: ESAs
Task B: Environmental Sampling
Task C: Other Environmental Assessment

As part of this continuing contract, ASL provided industrial hygiene, health and safety, and environmental consulting services to the DCPS to assist their facility managers in identifying and eliminating environmental hazards that may impact the health and well-being of the teachers, students, and DCPS employees. As part of these services, ASL provided IAQ assessments, remediation, and emergency response services; developed an on-going program for lead-based paint identification at schools; performed radon emission and lead-based paint surveys at over 100 schools; prepared Phase I and Phase II ESAs; prepared Site Assessment Reports for numerous sites including sites impacted by leaking storage tanks and by former pesticide use; designed and implemented Remedial Action Plans; performed removal and cleaning of hazardous wastes at two hazardous waste storage units; and performed storage tank management services.

ASL was also a member of the DCPS Hurricane Emergency Action Relief Team (HEART). As part of our HEART work, ASL conducted indoor air quality assessments on hurricane-impacted schools after hurricanes Francis and Jeanne. The investigative strategy included visual inspection of structural components for occurrence of moisture intrusion and mold growth. Readings for relative humidity, temperature, carbon dioxide, and moisture content were collected from impacted areas. Mitigation strategies and sample results were provided to DCPS.

Team Members involved: Frank Redway, Paul Fitch, Kathy Leggoe, Tim Cullen, John Hubbard

B. References for Completed Similar Work during the Past Three Years

ASL's client references for projects of similar scope and complexity are included on the District Form – Qualifications – Client References. Client reference letters are provided in Appendix C.

QUALIFICATIONS — CLIENT REFERENCE

Include this form in the response

Respondent shall provide three client references, which may include the similar projects listed above. No more than one reference shall be from the District. (For similar projects listed above, simply state "Similar Project No. ___.")

Client Reference 1:

Agency/company: Jacksonville Electric Authority (JEA)

Current contact person at agency/company: Lindsay Starner, Environmental Permitting and Compliance Manager

Telephone: 904-665-7605 Fax: _____ E-mail: scholn@jea.com

Agency/Company Address: 21 West Church Street, Jacksonville, FL 32202

Name of project: Miscellaneous Environmental Remediation and Consulting Services Contract

Description: Services include environmental/engineering compliance support, site assessments, emergency spill response, and remedial design/implementation.

Project value: $1.7M Project manager: Leon Carrero, PG

Client Reference 2:

Agency/company: Duval County Public Schools (DCPS)

Current contact person at agency/company: Robbie Bumpers, Director of Projects and Environmental Services

Telephone: 904-390-2846 Fax: 904-390-2265 E-mail: bumperse@duvalschools.org

Agency/Company Address: 1701 Prudential Drive, Jacksonville, FL 32207

Name of project: Industrial Hygiene and Environmental Consulting Services Contract

Description: Services include indoor air quality assessments, LBP and radon surveys, Phase I and II ESAs, site assessments, remedial action plan implementation, and health and safety consulting.

Project value: $165,949 Project manager: John Hubbard, LAC, CSP

Client Reference 3:

Agency/company: Sleiman Enterprises

Current contact person at agency/company: Michael Herzberg

Telephone: 904-731-8806 Fax: _____ E-mail: mherzberg@sleiman.com

Agency/Company Address: 1 Sleiman Parkway, Suite 270, Jacksonville, FL 32216

Name of project: Multiple purchase orders/projects

Description: Services include Phase I and II ESAs, asbestos surveys, LBP surveys, mold assessments, site assessments, and landfill permitting and monitoring.

Project value: multiple purchase orders Project manager: Frank Redway

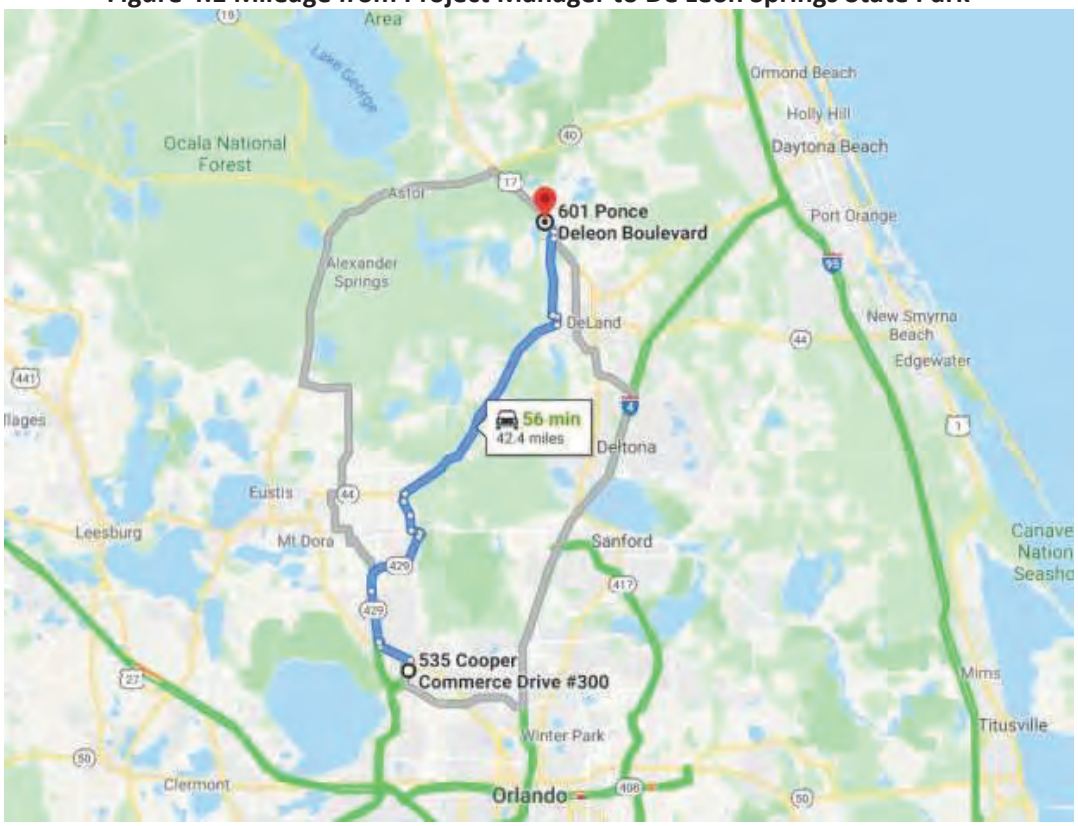
Tab 4: Location of Managing Firm/Project Manager Relative to the Geographic Centroid of the District

4. Location of Firm's Project Manager

ASL's Jacksonville and Orlando office locations will continue to support the District on this contract as they have for the past 15 years. These offices are both located within a 100-mile radius of De Leon Springs State Park, the District's geographical centroid. ASL's proximity to the District's centroid and headquarters office in Palatka enables us to quickly and cost effectively respond to your needs.

ASL's Project Manager for this contract is located in our Orlando office at 535 Cooper Commerce Drive, Suite 300, Apopka, Florida 32703, only 42 miles from the District's centroid and 83 miles from District headquarters in Palatka. The District's Altamonte Springs and Palm Bay service centers are located 12 and 94 miles, respectively, from ASL's Orlando office. This contract will also be supported by our Jacksonville office located at 3550 St. Johns Bluff Road South, Jacksonville, Florida 32224. The Jacksonville office is located only 63 miles from District headquarters in Palatka and 9 miles from the District's Jacksonville service center.

Figure 4.1 Mileage from Project Manager to De Leon Springs State Park



Part of ASL's 28 years of corporate success is attributed to our ability to mobilize quickly and cost-effectively to sites located throughout Northeast and Central Florida. In particular, as demonstrated on our existing contract with the District, we have been able to reach any location within the District's boundary quickly and effectively. As an example, our Jacksonville office was able to support project work in the northern counties, including the Clay County Easement Phase I ESA, Seamark Ranch Phase I ESA, and Camp Blanding Easement Phase I ESA in Clay County; while the Orlando office was able to support project work in central counties such as the Dike Ventures Property Phase I ESA and Mary A Flowway Sediment Sampling in Brevard County and the Sumner Property Phase I and II ESAs in Marion County. We also maintain a complete warehouse of field sampling and remedial equipment in our Jacksonville headquarters location.

Tab 5: Volume of District Work Previously Awarded to Respondent

5. Volume of District Work Previously Awarded to Firm

ASL has completed work on 16 Work Orders from the District on the ESA of District Lands Contracts (27995 and 32044) as well as one Purchase Order between September 10, 2017, and September 10, 2020, with a total invoiced value of $96,295.35 (Table 5.1).

Table 5.1 Total Value of Work Orders Awarded from September 2017 – September 2020

W.O. Number	Project Description	Work Order Value	Invoiced Total
	Contract 27995		
14	Lake Apopka Field Station Septic Tank Replacement Project Sampling	$9,891.00	$3,119.50
16	Sunnyhill Restoration Area Oil Spill Source Removal	$18,977.88	$11,258.93
	Purchase Order PO46508		
	Air Sampling for Mold, and Surface Sampling for Fecal Contamination	$3,625.60	$3,625.60
	Contract 32044		
01	Lake Apopka Field Station Septic Tank Replacement Pilot Project Sampling	$7,809.00	$6,250.25
02	Clay County Easement Phase I ESAs	$10,672.50	$10,672.50
03	Sumner Property Phase I ESA	$4,376.00	$4,376.00
04	Sumner Property Phase II ESA	$5,854.50	$5,849.75
05	Lake Denham Muck Farm Phase I ESA	$5,940.00	$5,940.00
06	Flagler County Wetland Restoration Project Spoil Pile Sampling	$4,182.40	$3,472.50
07	Marsh Flow Way Pump Basin Sediment Sampling	$4,771.48	$4,307.85
08	Orlando Service Center Phase I ESA	$3,356.00	$3,356.00
09	Mary A Flow Way Sediment Sampling	$7,752.50	$6,048.73
10	Apopka Service Center Phase II ESA	$7,020.00	$7,016.73
11	Freeman Property, Styduhar Property, & Wedgeworth Property Phase I ESAs	$8,900.00	$8,900.00
12	Dike Ventures Property Phase I ESA	$2,982.00	$2,982.00
13	Buck Lake-Dozier Property Phase I ESA	$4,222.00	$4,222.00
14	Volusia Blue Spring Property Phase I ESA	$4,897.00	$4,897.00
	TOTAL	$115,229.86	$96,295.35

Tab 6: Additional Information

Tab 6. Additional Information

A. Evidence of Registration with the Secretary of State

ASL is a limited liability company (LLC) authorized by the Secretary of State to conduct business in the State of Florida. In addition, ASL maintains the following licenses in Florida: Engineering Firm License Number 29894; Geological Firm License Number GB676; Pollutant Storage System Contractor License Number PCC1256929; Asbestos Firm License Number ZA455; and Radon Firm License Number RB2023. Copies of our licenses are included in Appendix A.

B. Certified Minority Business Enterprise

ASL is certified by the Small Business Administration as an 8(a) Small Disadvantaged Business and realizes the importance of creating and maintaining a diverse work force and is 100% committed to the goals and objectives of the District. As a former Florida Department of Transportation (FDOT) Disadvantaged Business Enterprise (DBE), ASL is keenly aware of the importance of this program and will meet or exceed the Minority Business Enterprise (MBE)/DBE participation goals for each category. ASL works extensively with MBEs and is committed to providing opportunities to African American, Hispanic American, Asian American, Native American, and Woman-owned businesses.

Appendix A: Licenses and Certifications

Ron DeSantis, Governor

Halsey Beshears, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULA "ON

ASBESTOS LICENSING UNIT

THE ASBESTOS BUSINESS ORGANIZATION HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 469, FLORIDA STATUTES

AEROSTAR SES LLC

PAUL M FITCH
3550 ST JOHNS BLUFF ROAD SOUTH
JACKSONVILLE FL 32224

LICENSE NUMBER: ZA455

EXPIRATION DATE: NOVEMBER 30, 2021

Always verify licenses online at MyFloridaLicense.com

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Ron DeSantis, Governor

FBPE
FLORIDA BOARD OF PROFESSIONAL ENGINEERS

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

AEROSTAR SES LLC

11181 ST. JOHNS INDUSTRIAL PARKWAY N
JACKSONVILLE FL 32246

LICENSE NUMBER: CA29894

EXPIRATION DATE: FEBRUARY 28, 2021

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RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY

Florida dbpr

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD

THE POLLUTANT STORAGE SYSTEMS CONTRACTOR HEREIN IS CERTIFIED UNDER THE PROVISIONS OF CHAPTER 489, FLORIDA STATUTES

HUGHES, GREGORY SCOTT

AEROSTAR SES LLC
13826 WINDSOR CROWN COURT EAST
JACKSONVILLE FL 32225

LICENSE NUMBER: PCC1256929

EXPIRATION DATE: AUGUST 31, 2020

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STATE OF FLORIDA
DEPARTMENT OF HEALTH

Division of Disease Control and Health Protection
Bureau of Environmental Health, Radon Program
4052 Bald Cypress Way, Bin A12
Tallahassee, FL 32399-1720

013660
Audit Control No.

Original - Customer

Under the provisions of Chapter 404, Florida Statutes, this business is certified to provide indoor RADON MEASUREMENT SERVICES.

AEROSTAR SES LLC
3550 St. Johns Bluff Road S
Jacksonville, FL 32224

Certification No. RB2023
Issue Date: February 22, 2020
Certification Automatically Expires On: February 21, 2021

Display Certificate at Business Location

STATE OF FLORIDA
DEPARTMENT OF HEALTH

Division of Disease Control and Health Protection
Bureau of Environmental Health, Radon Program
4052 Bald Cypress Way, Bin A12
Tallahassee, FL 32399-1720

013660
Audit Control No.

Duplicate - Customer

Under the provisions of Chapter 404, Florida Statutes, this business is certified to provide indoor RADON MEASUREMENT SERVICES.

AEROSTAR SES LLC
3550 St. Johns Bluff Road S
Jacksonville, FL 32224

Certification No. RB2023
Issue Date: February 22, 2020
Certification Automatically Expires On: February 21, 2021

United States Environmental Protection Agency

This is to certify that

Aerostar SES LLC

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires August 19, 2023

LBP-1654-2
Certification #

August 05, 2020
Issued On

Michelle Price, Chief
Lead, Heavy Metals, and Inorganics Branch

INSTITUTE OF HAZARDOUS MATERIALS MANAGEMENT

THIS CERTIFIES THAT

SARAH L. RIFFE

HAS SUCCESSFULLY MET ALL THE REQUIREMENTS OF EDUCATION, EXPERIENCE AND EXAMINATION, AND IS HEREBY DESIGNATED A

CERTIFIED HAZARDOUS MATERIALS MANAGER
CHMM

5/17/2017
DATE OF CERTIFICATION

20377
CREDENTIAL NUMBER

5/31/2022
CERTIFICATION EXPIRES

EXECUTIVE DIRECTOR

VALID SO LONG AS THIS CREDENTIAL IS RENEWED ACCORDING TO SCHEDULE AND IS NOT OTHERWISE REVOKED.

ANSI

Accredited by the American National Standards Institute and the Council of Engineering and Scientific Specialty Boards

Ron DeSantis, Governor

Halsey Beshears, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULA "ON

BOARD OF PROFESSIONAL GEOLOGISTS

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

RIFFE, SARAH LOUISE

417 LONE HERON WAY
WINTER GARDEN FL 34787

LICENSE NUMBER: PG2995

EXPIRATION DATE: JULY 31, 2022

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Board of Certified Safety Professionals

Upon the recommendation of the
Board of Certified Safety Professionals,
by virtue of the authority vested in it,
has conferred on

John Hampton Hubbard, Jr.

the credential of

Certified Safety Professional

and has granted the title as evidence of meeting the qualifications and passing the required examination so long as this credential is not suspended or revoked and is renewed annually and meets all recertification requirements.

CSP®

BOARD OF CERTIFIED SAFETY PROFESSIONALS

December 27, 2016
DATE ISSUED

CSP-32250
CERTIFICATION NUMBER

BOARD PRESIDENT SIGNATURE

Treasa M. Turnbaugh
BOARD SECRETARY SIGNATURE

RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY

Florida dbpr

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

ASBESTOS LICENSING UNIT

THE ASBESTOS CONSULTANT HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 469, FLORIDA STATUTES

HUBBARD, JOHN HAMPTON JR

INDIVIDUAL
4738 RAMONA BLVD
JACKSONVILLE FL 32205

LICENSE NUMBER: AX97

EXPIRATION DATE: NOVEMBER 30, 2020

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Ron DeSantis, Governor

Halsey Beshears, Secretary

Florida dbpr

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DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL GEOLOGISTS

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YOUNG, ROBERT HAYNE

824 BONAIRE CIRCLE
JACKSONVILLE BEACH FL 32250

LICENSE NUMBER: PG123

EXPIRATION DATE: JULY 31, 2022

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Halsey Beshears, Secretary

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YOUNG, ROBERT HAYNE

824 BONAIRE CIRCLE
JACKSONVILLE BEACH FL 32250

LICENSE NUMBER: PG123

EXPIRATION DATE: JULY 31, 2022

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Halsey Beshears, Secretary

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LEGGOE, KATHY R

4756 ATTLEBORO STREET
JACKSONVILLE FL 32205

LICENSE NUMBER: PG2687

EXPIRATION DATE: JULY 31, 2022

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RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY

Florida dbpr

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DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

ASBESTOS LICENSING UNIT

THE ASBESTOS CONSULTANT HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 469, FLORIDA STATUTES

FITCH, PAUL M JR

AEROSTAR SES LLC
4985 AVENUE D
SAINT AUGUSTINE FL 32095

LICENSE NUMBER: AX64

EXPIRATION DATE: NOVEMBER 30, 2020

Always verify licenses online at MyFloridaLicense.com

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Ron DeSantis, Governor

FBPE
FLORIDA BOARD OF PROFESSIONAL ENGINEERS

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

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

FITCH, PAUL M.

4985 AVE D.
ST. AUGUSTINE FL 320950000

LICENSE NUMBER: PE57447

EXPIRATION DATE: FEBRUARY 28, 2021

Always verify licenses online at MyFloridaLicense.com

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Ron DeSantis, Governor

Halsey Beshears, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULA "ON

BOARD OF PROFESSIONAL GEOLOGISTS

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PROVISIONS OF CHAPTER 492, FLORIDA STATUTES

ASHMAN, KEVIN CHRISTOPHER

9745 TOUCHTON ROAD UNIT 2028
JACKSONVILLE FL 32246

LICENSE NUMBER: PG2948

EXPIRATION DATE: JULY 31, 2022

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Ron DeSantis, Governor

Halsey Beshears, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULA "ON

BOARD OF PROFESSIONAL GEOLOGISTS

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

GREAVES, JOSEPH EDWARD

2200 GILMORE STREET
JACKSONVILLE FL 32204

LICENSE NUMBER: PG2943

EXPIRATION DATE: JULY 31, 2022

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INSTITUTE OF HAZARDOUS MATERIALS MANAGEMENT

THIS CERTIFIES THAT

GREG ITNYRE

HAS SUCCESSFULLY MET ALL THE REQUIREMENTS OF EDUCATION, EXPERIENCE AND EXAMINATION, AND IS HEREBY DESIGNATED A

CERTIFIED HAZARDOUS MATERIALS MANAGER®
CHMM®

March 19, 2019
DATE OF CERTIFICATION

23589
CREDENTIAL NUMBER

March 31, 2024
CERTIFICATION EXPIRES

EUGENE A. GUILFORD, JR.
EXECUTIVE DIRECTOR

VALID SO LONG AS THIS CREDENTIAL IS RENEWED ACCORDING TO SCHEDULE AND IS NOT OTHERWISE REVOKED.

ANSI

Accredited by the American National Standards Institute and the Council of Engineering and Scientific Specialty Boards

Ron DeSantis, Governor

Halsey Beshears, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULA "ON

BOARD OF PROFESSIONAL GEOLOGISTS

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

LEVIN, RICHARD S

10354 BIG TREE LANE
JACKSONVILLE FL 32257

LICENSE NUMBER: PG1431

EXPIRATION DATE: JULY 31, 2022

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Ron DeSantis, Governor

Halsey Beshears, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULA "ON

CONSTRUCTION INDUSTRY LICENSING BOARD

THE POLLUTANT STORAGE SYSTEMS CONTRACTOR HEREIN IS CERTIFIED UNDER THE PROVISIONS OF CHAPTER 489, FLORIDA STATUTES

HUGHES, GREGORY SCOTT

AEROSTAR SES LLC
13826 WINDSOR CROWN COURT EAST
JACKSONVILLE FL 32225

LICENSE NUMBER: PCC1256929

EXPIRATION DATE: AUGUST 31, 2022

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RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY

Florida dbpr

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

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

SMITH, JAMES OLIVER JR

3828 FEATHER OAKS DRIVE EAST
JACKSONVILLE FL 32277

LICENSE NUMBER: PE45048

EXPIRATION DATE: FEBRUARY 28, 2021

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Appendix B: Resumes of Key Personnel

Sarah Riffe, PG, CHMM, Senior Project Manager

Years with ASL
9 Years

Total Years Experience
13 Years

Employee Title
Senior Project Manager

Office
Orlando, FL

Academic Background
B.S., Biology/Geology, Magna cum Laude, University of South Florida 2008

Professional Registrations
State of Florida, Professional Geologist License No. PG2995
Certified Hazardous Materials Manager

Professional Training
OSHA 40-Hour Hazardous Waste Operations and Emergency Response (HAZWOPER) Training
OSHA 8-Hour HAZWOPER Supervisor

Professional Affiliations
CREW Orlando
ASHE Central Florida
WTS Central Florida

Ms. Riffe has over 13 years of experience in the fields of environmental consulting and biological research. She has actively participated in a wide range of environmental applications, including Phase I/II Environmental Site Assessments (ESAs), underground storage tank closures, emergency responses, industrial health assessments, permitting applications, compliance sampling, and remediation of contaminated soils and groundwater. Ms. Riffe also has specific experiences with field work including ground and surface water data acquisition and sampling, monitor well installation, soil screening and sampling, drilling oversight, vertical surveying, field data collection, field quality control and safety, and sampling equipment operation and calibration.

Ms. Riffe also has experience in the field of biological research. She has participated in sampling activities of various aspects of marine biology. She has experience in the fields of benthic ecology, landscape ecology, stock enhancement, and ichthyology. Specific duties included plankton tows, fish trawls, seine netting, seagrass surveying, water quality instrument use and calibration, water quality sample collection, on-site plankton mortality and survival evaluations, and taxonomic classification of key vertebrate and invertebrate larvae of marine ichthyoplankton and juvenile species of marine fish.

Ms. Riffe also regularly corresponds with clients, property owners, and the Florida Department of Environmental Protection (FDEP) to coordinate and manage assessment and remedial efforts. She has experience in supervising and scheduling assessment activities, supervising on-site subcontractors, and collecting, analyzing, and compiling field data. She has also prepared a wide range of technical reports that include Phase I/II ESA reports, Underground Storage Tank Closure Assessment reports, Site Assessment reports, Interim Source Removal reports, Mold Assessment reports, and Generic Permit for Discharge Application reports.

Project Experience

Environmental Assessment of District's Lands, St. Johns River Water Management District (SJRWMD), Florida – Senior Project Manager for various due diligence, environmental assessment, and remedial activities for the SJRWMD continuing services contract. Project experience includes Phase I ESAs of up to 5,000-acres in size, Phase II ESAs including soil and groundwater sampling, various assessments including sediment and wastewater sampling, and source removal activities including excavation.

Marsh Flow Way Pump Basin, SJRWMD, Lake County, Florida – Project Manager for a sediment sampling within the Lake Apopka North Shore Restoration Area. Coordinated and performed sediment sampling activities from a boat, navigated to district specified sampling points using GPS technology, coordinated sample shipment, and prepared a data deliverable.

Apopka Service Center, Phase I and Limited Phase II ESA, SJRWMD, Orange County, Florida – Project Manager for a Phase I ESA and Limited Phase II ESA on a 29-acre parcel located in Orange County. Performed a historical records review (historical aerial photographs, city directories, and topographic map), site reconnaissance, applicable interviews with state and local government personnel, file review of regulated facilities in the site vicinity, coordinated and managed field sampling tasks, interpreted analytical data, and prepared the Phase I and II ESA reports.

Lake Denham Muck Farm, SJRWMD/Lake County Water Authority, Lake County, Florida – Senior Project Manager for Phase I and Phase II ESAs of approximately 768 acres of former agricultural and submerged land. Performed a historical records review (historical aerial photographs, city directories, and topographic map), site reconnaissance, applicable interviews with state and local government personnel, file review of regulated facilities in the site vicinity, coordinated and managed field sampling tasks, performed GIS data collection and interpretation, interpreted analytical data, and prepared the Phase I and II ESA reports.

Lake Apopka Field Station, Pilot Project Wastewater Sampling, SJRWMD, Orange County, Florida – Project Manager for the wastewater sampling associated with the Lake Apopka Field Station Septic Tank Replacement Pilot Project. Coordinated and managed sampling activities and provided analytical results to the District.

Sunnyhill Restoration Area, SJRWMD, Marion County, Florida – Project Manager for a source removal of approximately 14 tons of hydraulic oil-impacted soils after a vehicular accident. Coordinated and managed construction activities and waste disposal, performed confirmation soil sampling, and prepared the Source Removal Report.

Clark Bay Addition, SJRWMD, Volusia County, Florida – Auditing Specialist for a Phase I ESA of approximately 312 acres of primarily wooded land along an approximate 5-mile corridor. Performed a historical records review (historical aerial photographs, city directories, and topographic map), site reconnaissance, applicable interviews with state and local government personnel, file review of regulated facilities in the site vicinity, and prepared the Phase I ESA report.

Petroleum Restoration Program, FDEP, Various Locations, Florida –Project Manager conducting petroleum assessment and cleanup activities at sites in the north, central, and south regions of Florida. Responsibilities include managing Purchase Orders throughout the State ranging from NAM and Site Assessment to Remedial Design and Implementation including system installation, source removal, and chemical augmentation.

Franks Farms, FDEP Petroleum Restoration Program, Astatula, Florida – Senior Project Manager for site assessment and Remediation of this former agricultural maintenance and airstrip property. Directed the assessment activities including soil and groundwater sampling by direct push and hollow stem auger drilling technology. Coordinated with the SJRWMD on project scheduling and safety of District employees in the area as well as the public. Supported remedial efforts and provided mediation between the SJRWMD and FDEP as needed.

Professional Auto Body, FDEP Petroleum Restoration Program, High Springs, Florida – Senior Project Manager for site assessment of a former gas station facility. Directed the assessment activities including soil and groundwater sampling by sonic drilling technology. Coordinated with site occupants to minimize disruption to the active business at the site and maximize the safety of the crew. Worked with the FDEP to maximize mobilization events and reduce unnecessary costs.

Former Gas Station Facility, Regional Financial Institution, Orlando, Florida – Auditing Specialist for the Phase I & II ESA Activities. Performed the Phase I ESA research and site inspection, coordinated and performed the Phase II ESA activities, coordinated and managed additional Phase II ESA activities, and prepared all reports.

Downey Park Source Removal, Orange County, Orlando, Florida – Project Scientist for the aboveground storage tank closure assessment and source removal at this county park. Coordinated and performed the excavation and disposal of approximately 50 tons of petroleum-impacted soils, performed assessment activities to delineate and remove all contamination during the excavation, discussed remedial alternatives with the client during the excavation process to reduce unnecessary costs, and prepared the Source Removal Report.

Freedom Park, U.S. General Services Administration, Lakeland, Florida – Project Scientist for the Site Assessment and Interim Source Removal of this metals-impacted facility proposed for use as a city park. Performed the soil assessment and data analysis, GIS data collection and interpretation, prepared interim and site assessment reports, discussed remediation alternatives suited to the clients budget, coordinated and performed the interim source removal of over 600 tons of contaminated soils, and prepared the Interim Source Removal Report.

Former Hendricks and Lakeland Army Airfields, U.S. Army Corps of Engineers (USACE), Sebring and Lakeland, Florida – Project Scientist for the injection of Oxygen Releasing Compound (ORC) at these petroleum-impacted facilities. Prepared the Work Plans and addressed the comments for approval by the USACE, performed the injections of ORC, conducted quarterly groundwater monitoring of the facilities, and prepared the associated reports for submittal to the Florida Department of Environmental Protection.

Environmental Services, Florida Department of Transportation (FDOT), District 4, Lyons Road right-of-way in Delray Beach, Florida – Coordinated and performed soil assessment, confirmation sampling, and waste characterization activities for the excavation of chlorinated pesticide and arsenic contaminated soils, as well as the removal of an underground storage tank and piping system within the Lyons Road right-of-way in Delray Beach, Florida, in preparation for road expansion.

Soil and Groundwater Assessment Activities, Florida Department of Transportation (FDOT), District 1 – Project Scientist for various soil and groundwater assessment activities for the FDOT, District 1, Environmental Services Contract. Project responsibilities included coordination of staff and sampling equipment, review of construction plans and proposal of sampling locations, soil screening and sampling, temporary and permanent monitor well installation, groundwater sampling, GIS data collection and interpretation, data analysis, and the preparation of technical summary reports.

Soil, Surface Water, and Groundwater Assessment Activities, FDOT, District 7 – Project Scientist for various soil, surface water, and groundwater assessment activities for the Florida Department of Transportation, District 7, Environmental Services Contract. Specific project experience included the monitoring of discharge water quality and compliance with Southwest Florida Water Management District Permit requirements for three retention ponds in Brooksville, Florida; Phase II assessment of soil and groundwater in preparation of the Lee Roy Selmon Crosstown Expressway and Interstate 4 connector; and various emergency response roadway cleanup activities in Pinellas and Citrus counties.

Environmental Assessment and Oversight Activities, FDOT, District 5 – Project Scientist for various environmental assessment and oversight activities for the Florida Department of Transportation, District 5, Environmental Services Contract. Specific project experience included Phase I assessment of adjoining properties to the CSX Railway Sanford and Deland spurs; monitor well installation and groundwater assessment within the CSX Sanford Rail Yard; lead-based paint sampling of the CSX Railway Bridge crossing Lake Monroe; and oversight of the abatement of asbestos-containing materials prior to building demolition for various roadway widening projects.

Frank Redway, Program Manager

Years with ASL
17 Years

Total Years Experience
27 Years

Employee Title
Program Manager

Office
Jacksonville, FL

Academic Background
B.S., Geography, University of Florida, 1989
M.S., Environmental Engineering, University of Florida, 1993

Professional Training
Certified Indoor Air Quality Professional Registration, No. 376
Construction Quality Management for Contractors, 2012

Professional Affiliations
Urban Land Institute (ULI)
American Society of Highway Engineers (ASHE)

Mr. Redway has over 27 years of experience as an environmental scientist for all aspects of environmental projects including environmental compliance, Phase I/II Environmental Site Assessments (ESAs), HUD assessments, contamination screening evaluations, contamination assessments, remedial action plans, asbestos and lead based paint sampling, and indoor air quality. He has extensive experience in contract management, proposal preparation, client/regulatory interaction, technical oversight, supervision and collection of field data, and report preparation. Mr. Redway is also trained in asbestos, indoor air quality, and lead-based paint surveys. Mr. Redway currently serves as ASL's contract manager for the FDEP's ESA contract. He has served as Project Manager or Technical Reviewer for over 1,500 Phase I and II ESAs on vacant land, managed forests, farms, multi-family sites, assisted living care facilities and commercial and industrial properties as part of real estate transactions throughout the southeastern US with property sizes ranging from 0.25 acre to 4,000 acres.

Mr. Redway serves as one of the corporate quality control managers for ASL, and his administrative responsibilities include supervising and training field personnel, conducting quality assurance/quality control reviews, preparing cost estimates and budget analyses, business development, interacting with clients and regulatory agencies, and report preparation.

Project Experience

Environmental Assessment Services for District Lands, St. Johns River Water Management District, Florida – QA/QC Manager for Phase I and II ESAs, radon and asbestos surveys, contaminated soil and groundwater assessments, remediation design, remedial clean-up actions, groundwater monitoring, and hydrologic fate and transport modeling projects. Responsible quality control of data collection, data management, and project deliverables.

QC/Independent Technical Review Team (ITRT) Leader, Various DoD Projects/Locations – Quality Control/ITRT Leader for numerous DoD projects, responsible for independent technical review of work plans and technical reports that are appropriate to the level of risk and complexity inherent in the project, as defined in the Quality Control Plan. This includes review of assumptions; methods, procedures and material used in analyses; the appropriateness of data used and level of data obtained; and reasonableness of the results including whether the product meets the customer's needs consistent with laws and existing federal policies.

City of Jacksonville Neighborhood Stabilization Program, Florida – Program Manager for the completion of over 200 HUD Environmental Assessments (EAs), asbestos, mold, and lead-based paint surveys for the COJ's Neighborhood Stabilization Program. Checklist evaluations include historic preservation, noise, coastal zone management, floodplain management, and hazardous materials.

St. Johns County Neighborhood Stabilization Program, Florida – Program Manager for asbestos, lead-based paint, mold, and Chinese drywall inspection services to the St. Johns County Housing and Community Services Department as part of the Department of HUD funded Neighborhood Stabilization Program. Under this accelerated program, ASL inspected homes targeted for acquisition for asbestos, lead-based paint, mold, and Chinese drywall. Asbestos inspections included identification, quantification and sampling of friable suspect ACMs, and preparation of a report with recommendations.

St. Johns County Tier II Site-Specific Environmental Reviews, St. Johns County, Florida – Program Manager for the site-specific environmental reviews at up to 250 properties under the CDBG-DR Restore St. Johns Program. The

program will include environmental assessments, asbestos, LBP, and mold surveys in accordance with HUD guidelines. Checklist evaluations included historic preservation, noise, coastal zone management, floodplain management, and hazardous materials conduct.

Habitat for Humanity of Jacksonville, Florida – Program Manager for the completion of HUD EAs for 125 properties in Jacksonville's historic Springfield District. The EAs consisted of an evaluation of historic preservation, noise, coastal zone management, floodplain management, and hazardous materials.

Phase I ESA, St. Johns County, Florida – Program Manager for a contamination screening evaluation for SR 313, a 5.2-mile, 4-lane divided arterial limited-access facility from SR 16 to US 1. The design was taken to a 45% level of completion for the purpose of determining right of way requirements. The project traversed through a rural area with numerous wetland involvements.

Phase I and II Environmental Site Assessments, Trust for Public Land, Florida – Program Manager for Phase I and II ESAs, and a soil source removal for a historic property as a partner with the Trust for Public Land. Properties ranged in size from a 3-acre out-parcel for a civil war encampment to over 2,000 acres of undeveloped woodlands/silviculture property that included a cattle dip vat.

Cattle Dip Vat Site, Private Client, Florida – Senior Project Manager for a soil and groundwater assessment delineating the extent of arsenic impacts from the historical use of a cattle dip vat identified during a Phase I ESA. Site assessment activities included the collection of over 200 soil and groundwater samples for laboratory analyses with recommendations for site remediation. The results of the investigation allowed the Client to proceed with redevelopment of the property for residential purposes.

Hampton Shell Remedial Action Plan (RAP), FDEP, Florida – Quality Control Manager for a hydrocarbon remediation system for the FDEP. The project includes the closure of two USTs, the removal of 235 tons of petroleum contaminated soil, the design of an air sparge and soil vapor extraction system, the installation of 26 air sparge and 10 soil vapor extraction wells, the installation of pipe trenches and a remedial system trailer, and operations and maintenance inspections. Remediation at the facility is on-going and remedial milestones are being met.

Site Assessment, Linden Avenue Dump Site, COJ, Florida – Program Manager for site assessment activities at the site in accordance with Chapter 62-780, Florida Administrative Code (FAC). Activities included advancing soil borings, installing monitor wells, and submitting soil and groundwater samples for laboratory analysis, performing aquifer tests, determining groundwater flow, and performing a historical records search and potable well survey for the site.

ACM, LBP, and Hazardous Materials (HM) Surveys, Wekiva Parkway Improvements, Orange, Lake, and Seminole Counties, Florida – Program Manager for ACM, LBP, and hazardous materials surveys for demolition of structures which will be impacted by improvements to the Wekiva Parkway in Lake, Orange, and Seminole Counties. Surveys were conducted on 80 buildings to evaluate for the presence of ACM, LBP, and hazardous materials in the structures by AHERA- and EPA-certified inspectors under the direction of a Licensed Asbestos Consultant (LAC).

Level II Contamination Impact Assessment (CIA), Wekiva Parkway/State Road (SR) 46 Realignment Corridor, Orange and Lake Counties, Florida – Program Manager for soil and groundwater sampling activities along a 4.79-mile roadway corridor in Lake and Orange Counties. Project activities included preparing a Sampling and Analysis Plan (SAP), soil sample collection and laboratory analysis, temporary wellpoint installation, groundwater sample collection and laboratory analysis, and preparation of a CIA Report.

Contamination Assessment, Former Potato Farm, Florida – Senior Project Manager for a soil and groundwater assessment at a 100-acre former potato farm as part of a real estate transaction. Site assessment activities included the collection and analyses of over 60 soil and groundwater samples to evaluate impacts from pesticides and petroleum products. Concentrations of arsenic, dieldrin, DDT, and select petroleum compounds were identified in the soil and groundwater above State Cleanup Target Levels. Identification of the contamination prior to real estate closure minimized the client's potential liabilities.

Allyson Charbonnet, PhD, QA/QC Manager

Years with ASL
8 Years

Total Years of Experience
22 Years

Employee Title
QA/QC Manager

Office
Jacksonville, FL

Academic Background
Ph.D., Chemistry, University of Kansas, 2004
B.S., Biochemistry, Florida State University, 1997

Professional Training
UFP QAPP Course
FL ADaPT Training
ERPToolsX Training
ADR.NET Training
LEAN Manufacturing
Six Sigma
Robust Design
Change Acceleration Process – General Electric Co.
Edison Engineering Development Program – General Electric Co.

Dr. Charbonnet has 22 years of professional experience in the field of chemistry. She has developed analytical methods and standard operating procedures for the sampling and analysis of a wide range of organic and inorganic compounds in various complex matrices and has conducted research in the academic sector and for private industry. Dr. Charbonnet has managed large scale analytical laboratory projects and provided technical oversight for all aspects of laboratory QA/QC. She has supervised laboratory staff, including training staff on new analytical laboratory techniques, proper cataloguing of samples, and data interpretation and documentation. In addition, Dr. Charbonnet has conducted multiple Phase I Environmental Site Assessments (ESAs) on various types of real estate properties and has prepared a wide range of technical reports, procedural guidelines, planning documents, and quality assurance/quality control reviews.

Project Experience

Environmental Assessment Services for District Lands, St. Johns River Water Management District, Florida – Data validation and QC specialist for District projects/contracts. Responsibilities include reviewing laboratory analytical reports, summarizing data and QC deficiencies and evaluating the impact on overall data quality, and assigning data validation qualifiers as necessary.

General Environmental Field Support Base Realignment and Closure 2005 (BRAC05), Air Force Civil Engineer Center (AFCEC), Multiple Installations – Senior Chemist responsible for creation of Uniform Federal Policy for Quality Assurance Project Plans (UFP-QAPP) addressing the technical and QC aspects related to multi-media sampling. Perform data validation complying with the requirements of Stage 4 validation as outlined in the EPA's Guidance on Environmental Data Verification and Data Validation, EP QA/G-8. Evaluate field and analytical laboratory data for predictive correlation between field measurements and multiple analytical test results. Prepare technical reports documenting data interpretation and procedural implications for field analyses, data validation reports, and data usability assessments for project team decision-making.

Department of Defense (DoD) Quality Systems Manual (QSM) Version 5.0 Compliant Program Data Validation, Various Federal and Former Federal Facility Sites – Data Validation Specialist performing Level III and Level IV data validation of analytical laboratory data based on site-specific measurement quality objectives developed in accordance with the DoD QSM Version 5.0. Other responsibilities include reviewing reported sample results collectively for the data set as a whole, summarizing data and QC deficiencies and evaluating the impact on overall data quality, and assigning data validation qualifiers as necessary. Tasks are performed in conjunction with the laboratories to address errors in data processing and reporting identified during the validation process to ensure that the project team decisions are based on data that is both accurate and defensible.

USACE Staged Electronic Data Deliverable (SEDD)/Automated Data Review (ADR) Implementation, USACE Jacksonville, Various Locations – Senior Chemist responsible for evaluating analytical chemistry data deliverables from water and soil samples for submission to the USACE Jacksonville District. Responsibilities include preparing eQAPP libraries containing measurement performance criteria for ADR based on the project-specific QAPP; utilizing ADR.net and professional judgement, evaluate all QC data reporting and compares the accuracy and precision information reported in the EDD against the criteria established in QAPP; ensuring that the necessary

qualifiers are added to the associated sample results based on the validation process. Responsible for submitting validated EDD files and validation reports to the USACE.

Phase III Site Assessments, COJ Ash Remediation Program, COJ, Jacksonville, Florida – Data Validation Specialist for Level III data validation of analytical lab data for Phase III investigations associated with evaluating the extent of ash at OU 1 and OU 2 Incinerator Sites. Developed a comprehensive data validation manual (SOPs) to improve the accuracy and efficiency of determining the quality of laboratory-generated analytical data. She ensured the standards were researched and documented through the use of analyte-specific methods and both regional and national EPA functional guidelines for the rigorous examination of data. She also revised the historical reporting template for consistency and clarity including examples and addressing anomalies in the manual for quick reference.

Remedial Investigation/Feasibility Study (RI/FS) for the Forest Street and 5th & Cleveland St. Incinerator Sites, Jacksonville, Florida – Performs Level III data validation of analytical lab services for remedial investigations associated with evaluating the extent of ash at the former Forest Street and 5th & Cleveland St. Incinerator Sites. The investigation determines exposure to incinerator ash and contaminants of concern including lead, arsenic, polynuclear aromatic hydrocarbons (PAHs), and dioxins within the ash and soil. Soil samples are field screened for metals using an X-Ray Fluorescence (XRF) instrument, visually inspected for the presence of incinerator ash, and collected for laboratory analyses based on the site-specific SAP/QAPPs.

RI/FS for the Brown's Dump Site, Jacksonville, Florida – Performs Level III data validation of analytical lab services for remedial investigations associated with evaluating the extent of ash at the Brown's Dump Site in Jacksonville, Florida. The investigation is designed to evaluate concentrations of lead, arsenic, PAHs, and dioxins within the ash and soil in the site area. Soil samples are field screened for metals using an XRF instrument, visually inspected for the presence of incinerator ash, and collected for laboratory analyses based on the site-specific SAP/QAPPs. Dr. Charbonnet works closely with the field team and the client to ensure all data reports are accurate prior to submittal to the EPA.

John Hubbard, CSP, LAC, Health and Safety Manager

Aerostar SES LLC

Years with ASL
17 Years

Total Years Experience
17 Years

Employee Title
Corporate Health and Safety Manager

Office
Jacksonville, FL

Academic Background
B.S., Biology, University of North Carolina at Wilmington, 1999
A.A., Cape Fear Community College, Wilmington, 1997

Professional Registrations
Certified Safety Professional #32250
FL Licensed Asbestos Consultant #AX97
AIHA Northeast Florida, 2010

Professional Training
OSHA Certified 40-Hour Hazardous Waste Safety for the General Site Worker, 2003
NCCER Construction Site Safety Training, 2003
JEA Substation Safety Training, 2003
EPA AHERA Certified Asbestos Inspector, 2004
EPA AHERA Certified Contractor Supervisor for Asbestos Abatement, 2004
NIOSH 582 Certified Analyst, 2005
FDEP Stormwater, Erosion, and Sedimentation Control Inspector Training, 2004
FDOH Certified Radon Measurement Specialist, 2006
EPA Lead-based Paint Inspector, 2009
EPA Lead-based Paint Risk Assessor, 2009
FL DBPR Mold Assessor and Remediator, 2011
EPA AHERA Certified Project Designer, 2013
EPA AHERA Certified Management Planner, 2014
OSHA 30-Hour Construction Safety and Health, 2015

Mr. Hubbard has over 17 years of experience providing industrial hygiene and environmental services. His experience includes indoor air quality and moisture intrusion/mold assessments, radon surveys, soil and groundwater sampling, and asbestos and LBP surveys. Mr. Hubbard has performed over 500 asbestos, LBP, and mold surveys.

As Corporate Health and Safety Manager, Mr. Hubbard has effectively managed the safety and risk management process for all USACE and federal projects, and multiple private client projects. These efforts have included an emphasis on hazard identification, analysis, control, monitoring, and implementation of corrective actions with the goal of continual safety improvement. He has been responsible for the review and approval of EM 385-1-1 compliant Accident Prevention Plans (APPs) and Site Safety and Health Plans (SSHPs) for projects which include Hazardous, Toxic, and Radioactive Wastes (HTRW). He works with Project Managers and Site Safety and Health Officers (SSHOs) to develop Activity Hazard Analysis (AHAs) identifying site specific hazards and developing systems of administrative and engineering controls. Mr. Hubbard is responsible for conducting site and project audits and maintaining corporate Health and Safety Program Manuals to ensure compliance with current OSHA standards.

Project Experience

Environmental Assessment Services for District Lands, St. Johns River Water Management District, Florida – Health and Safety Manager and Industrial Hygiene Manager for District projects/contracts. Responsible for project safety and ensures project-specific implementation and compliance with any applicable Hazard Analyses, HASPs, and Quality Control Plans.

Phase I Geotechnical Exploration, Guajataca Dam, Hurricane Maria Emergency Response, USACE Jacksonville, Quebradillas, Puerto Rico – Health and Safety Manager for a geotechnical investigation for the design and construction of a temporary emergency spillway, and repairs of the damaged access road (PR-476) of Guajataca Dam. Reviewed and approved the Accident Prevention Plan (APP) and Activity Hazard Analyses (AHAs).

Phase I Geotechnical Investigation, Caño Martín Peña Ecosystem Restoration Project, USACE Jacksonville, San Juan, Puerto Rico – Health and Safety Manager for a geotechnical investigation as part of the CMP ERP. The investigation consisted of drilling land and water borings at multiple locations. Developed AHAs and reviewed the APP to ensure compliance with USACE EM 385-1-1.

Neighborhood Stabilization Program, St. Johns County, Florida – Health and Safety Manager for asbestos, LBP, mold, and Chinese drywall inspection services to the St. Johns County Housing and Community Services Department as part of the HUD-funded Neighborhood Stabilization Program. Under this accelerated program, ASL inspected homes targeted for acquisition for asbestos, LBP, mold, and Chinese drywall. Asbestos inspections

included identification, quantification and sampling of friable suspect ACMs, and preparation of a report with recommendations.

Neighborhood Stabilization Program, COJ, Florida – Health and Safety Manager for the completion of over 200 HUD EAs, asbestos, mold, and LBP surveys for the COJ's Neighborhood Stabilization Program. Checklist evaluations include historic preservation, noise, coastal zone management, floodplain management, and hazardous materials.

ACM, LBP, and Polychlorinated Biphenyls (PCB) Surveys, Patrick Air Force Base, RS&H, Brevard County, Florida – Health and Safety Manager, Project Manager, and LAC for ACM, LBP, and PCB surveys for Building 673 - 39th Rescue Squadron Operations (RQS Ops), Building 647 - Fuel Cell Hangar, and Building 313 - 920 MSG located at Patrick Air Force Base. The surveys included all accessible areas throughout the building's exterior and interior.

ACM, LBP surveys, and Mold Assessment, US Virgin Islands National Guard Readiness Center, Conti Federal Services, St. Thomas, US Virgin Islands – Project Manager, Certified Asbestos Inspector, Licensed Mold Assessor, Certified Lead Risk Assessor, and Health and Safety Manager for surveys and inspections throughout two buildings totaling approximately 54,000 square feet. Site activities included identifying suspect ACMs, LBP, and mold impacted materials, quantification and condition assessments of materials, bulk sample collection, sample analysis interpretation, and providing reports to determine proper handling and disposal of building materials during scheduled renovations. A Microbial Remediation Plan specification document was prepared for the client.

Port Everglades United States Coast Guard (USCG), Soil and Hazardous Material Investigation, USACE Jacksonville District, Port Everglades, Florida – Health and Safety Manager, LAC, and Project Manager for the evaluation of the USCG station to determine the presence of petroleum-impacted soils, ACM, LBP, and other regulated materials. The evaluation was conducted to determine regulatory requirements for site rehabilitation and reconfiguration of the channel.

ACM, LBP, and Hazardous Materials Surveys, Wekiva Parkway, Orange and Lake Counties, Florida – Senior Project Manager for ACM, LBP, and hazardous materials surveys of 53 parcels located along the planned Wekiva Parkway corridor, Sections 203, 204, 205, and 206. ASL completed pre-demolition surveys of structures located within the corridor. Field activities included the collection of ACM samples, identification of LBP utilizing an XRF analyzer, and the evaluation and quantifying of hazardous materials and components throughout the structures to identify materials requiring special handling and disposal procedures.

Marine Corps Reserve Center (MCRC), Radon Survey and Mitigation Planning, Terre Haute, Indiana – Health and Safety Manager, SSHO, and Certified Radon Specialist during the evaluation of an MCRC facility for radon and radon progeny. The project required the development of an APP, placement and recovery of radon collection devices, laboratory data interpretation, reporting, and development of a radon mitigation plan.

Robert H. Young, PG, ESA Team Leader

Years with ASL
9 Years

Total Years Experience
40 Years

Employee Title
Senior Geologist

Office
Jacksonville, FL

Academic Background
B.A., Geology, Miami University, 1978

Professional Registration
State of Florida, Professional Geologist Registration No. 123
State of Georgia, Professional Geologist Registration No. 772
State of Tennessee, Professional Geologist Registration No. 1120

Professional Affiliations
Jacksonville Beach Chamber of Commerce

Mr. Young has over 40 years of professional experience in the field of contamination assessment investigations, Phase I and Phase II Environmental Site Assessments (ESAs), environmental permitting, Spill Prevention Control and Countermeasure (SPCC) Plans, Storm Water Pollution Prevention Plans (SWPPPs), and remediation services. His field experience includes soil and groundwater evaluation and assessment of hazardous and non-hazardous materials at retail gasoline facilities, dry cleaning facilities, bulk distribution terminals, and commercial and industrial facilities throughout Florida and the Southeastern U.S.; collection of soil and groundwater samples for laboratory analyses; installation of monitor wells using direct-push and conventional drilling techniques; performing aquifer tests, vapor extraction, and air sparging tests; construction oversight, operation and maintenance of groundwater and soil treatment systems; and development of Work Plans, Accident Prevention Plans, Site Safety and Health Plans, Site Assessments, and Remedial Action Plans (RAPs).

As a Project Manager, Mr. Young has supervised and trained field personnel; conducted quality assurance/quality control (QA/QC) checks; prepared detailed cost estimates and proposals, implemented budget tracking procedures; evaluated analytical data collected in the field to complete site assessments or design the most appropriate soil and/or groundwater remediation technologies, and prepared technical reports summarizing findings and providing recommendations to clients and regulatory agencies. Mr. Young has extensive experience with remediation techniques that include source removals, soil vapor extraction, and air sparging. He is 40-hour OSHA certified and possesses extensive knowledge of the regulations governing the Florida and Georgia underground storage tank programs, hazardous and non-hazardous wastes, ASTM E1527-05 due diligence guidelines, and remediation construction oversight supervision. He is familiar with Windows, Excel and several other software products.

Project Experience

Miscellaneous Phase I and II ESAs, Southeastern U.S. – Project Manager and Senior Reviewer on numerous Phase I and II ESAs throughout the Southeast. Phase I ESAs were conducted following ASTM Standard E1527 on properties such as undeveloped land, agricultural property, and commercial/industrial property. Phase II ESAs were conducted on properties where potential contamination may have existed based on recognized environmental conditions identified during the Phase I ESAs.

Petroleum Restoration Program, FDEP, Various Locations, Florida –Senior Geologist conducting petroleum assessment and cleanup activities at sites in the north, central, and south regions of Florida. Responsibilities include managing Purchase Orders throughout the State ranging from NAM and Supplemental Site Assessment to Remedial Design and Implementation including system installation, source removal, and chemical augmentation.

Site Investigation, Corry Naval Auxiliary Air Station, Pensacola, Florida – Project Manager and Senior Reviewer for a landfill site investigation at the former Corry Naval Auxiliary Air Station. The site investigation included evaluating sediment, soil, and groundwater across the former landfill area. Directed the investigation that included advancing soil borings and collecting soil samples for laboratory analysis, collecting sediment samples for laboratory analysis, installing monitor wells, and the collection of groundwater samples for laboratory analysis. A Site Investigation Report was submitted to the USACE. Additional assessment work was performed to further evaluate the extent of sediment, soil, and groundwater impacts detected at the site. A Draft Supplemental Site Assessment Report was submitted the USACE.

Hazardous, Toxic and Radioactive Waste (HTRW) Site Inspection Report, Camp Gordon Johnston, Franklin County, Florida – Senior Reviewer and Field Team Leader for a HTRW Site Inspection Report on Camp Gordon Johnston. Evaluated six areas on the former Camp Gordon Johnston facility that included a Vehicle Maintenance Area #1, Vehicle Maintenance Area #2, West Motor Pool Area, East Motor Pool Area, Maintenance/Repair Area, and an area where free product was discovered in former Supply Well #12. The evaluations included advancing surface soil borings, collecting surface and subsurface soil samples for laboratory analysis, installing temporary monitor wells, and collecting groundwater samples for laboratory analysis. A Draft Final Site Inspection Report was prepared and submitted to the USACE.

Environmental Condition of Property (ECP) Reports, Marine Corps Reserve Centers, Newport News, Virginia; Wyoming, Pennsylvania; and Grand Rapids, Michigan – Project Manager and Senior Reviewer for conducting environmental condition of property assessments at each site. Reviewed and evaluated existing environmental reports prepared for each facility and conducted a thorough site inspection at each facility to establish current conditions. Provided recommendations for additional site investigation activities or no further action required. ASL's recommendations will enable the USACE to budget funds for additional work, if required, prior to divesting the property.

Remedial Investigation/Feasibility Study (RI/FS) at the Former Richmond Naval Air Station Incinerator Site, USACE Savannah, Miami, Florida – Senior Geologist for the collection of soil and groundwater samples and the preparation of a remedial investigation report for the former incinerator site with historical contamination from metals, dioxins, furans, and polynuclear aromatic hydrocarbons. The remedial investigation and focused human health risk assessment conducted on this Formerly Used Defense Sites (FUDS) indicated no unacceptable risk to humans. The Proposed Plan recommended no further action necessary because there was no risk to humans from Department of Defense (DoD) activities.

Remedial Action at Former Ellyson Field, USACE Jacksonville, Pensacola, Florida – Senior Geologist for environmental remediation services at Former Ellyson Field to achieve Response Complete (RC) by obtaining site cleanup and securing a Site Rehabilitation Completion Order (SRCO) for site 2.

Remedial Action Activities at Spill Site TU/US-C500, MacDill Air Force Base (MAFB), USACE Omaha, Tampa, Hillsborough County, Florida – Senior Geologist for the collection of soil and groundwater samples and the preparation of a RAP, Remedial Action Completion (RAC) Report, five quarters of Post Active Remediation Monitoring (PARM), and a Site Closure Report for the active military gas station. Conducted a baseline groundwater sampling event, abandoned eight monitor wells, excavated 968 tons of soil in the area of the former USTs, applied Oxygen Release Compound-Advanced™ (ORC-A™) pellets into the bottom of the excavation, injected ORC-A™ surrounding an intermediate monitor well, re-installed eight monitor wells and conducted five quarters of PARM. A Memorandum of Decision for No Further Action (NFA) and Site Rehabilitation Completion Documentation were completed during the last quarter of PARM. The site received an SRCO from FDEP.

Assessment and Remediation Activities, Former Graphic Arts Chemical Blending Facility, Orange Park, Florida – Senior Project Manager and Field Team Leader for operations associated with assessment and remediation activities at a former graphic arts chemical blending facility. Prepared a Source Removal, Feasibility Study, RAP, Remediation Construction Completion Report, Operation & Maintenance Monitoring Reports, Post Remediation Monitoring Report, RAP Modification, and RAP Modification Implementation Report to address impacted soil and groundwater at this facility. Directed the removal of impacted soil surrounding the former distribution piping leading from the mixing room building to the former USTs. Conducted an air sparging/soil vapor extraction pilot test at the site to determine the feasibility of bio-venting technology. A bio-venting system was installed incorporating the existing air compressors at the facility as part of the remediation system. The system operated for five quarters and was turned off for post remediation monitoring. Laboratory analyses of groundwater samples indicated that the chemicals of concern rebounded in one monitoring well; therefore, oxygen releasing compound (ORC)-Advanced was injected using a direct-push rig as part of a RAP Modification. Post remediation monitoring indicated that the chemicals of concern were below the Groundwater Cleanup Target Levels (GCTLs).

Kathy Leggoe, PG, Sampling Team Leader

Years with ASL
17 Years

Total Years Experience
19 Years

Employee Title
Senior Project Manager

Office
Jacksonville, FL

Academic Background
B.S., Geology, 1995, University of North Carolina at Wilmington

Professional Registrations
State of Florida, Professional Geologist Registration No. 2687

Professional Training
CPR and First Aid Training
OSHA 40-Hour Safety Training for Hazardous
Waste Activities
OSHA 8-Hour Refresher
OSHA 8-Hour Site Supervisor
CSSO & SLD Training
JEA BJP Safety Orientation
Chevron LPS Training
Training for Hazardous
Waste Activities

Professional Affiliations
Professional Women's Council
St. Johns Watershed Action Volunteers

Ms. Leggoe has 19 years of experience in the environmental industry. Ms. Leggoe has concentrated her efforts on assessment and remediation of petroleum products by managing state-funded and private petroleum cleanup projects in accordance with State of Florida regulations associated with the Florida Department of Environmental Protection Pre-Approval Petroleum Cleanup Program. Ms. Leggoe is responsible for managing ASL's FDEP Pre-Approval and Petroleum Cleanup Participation Program (PCPP) designated sites. Her responsibilities include direct contact with FDEP and local regulators to ensure compliance with regulations, writing proposals, negotiating work orders, and preparing work plans.

Ms. Leggoe also corresponds with clients and has experience in supervising and scheduling assessment activities, supervising on-site subcontractors, and collecting, analyzing, and compiling field data. She has coordinated and supervised assessment activities including drilling of monitor wells and collecting groundwater and soil samples at various facilities. Ms. Leggoe has prepared a wide range of technical reports that include environmental site assessment reports, comprehensive site assessments, site characterization reports, LCARs, SARs, SAR Addenda, MOPs, annual, semi-annual, and quarterly reports; source removal reports, and closure reports.

Project Experience

Petroleum Restoration Program, FDEP, Various Locations, Florida – Senior Project Manager and Senior Geologist for three contracts conducting petroleum assessment and cleanup activities at sites in the north, central, and south regions of Florida. Responsibilities include managing Purchase Orders throughout the State ranging from NAM and Supplemental Site Assessment to Remedial Design and Implementation including system installation, source removal, and chemical augmentation; and preparing competitive bids within the PRP Program to implement remedial action in the most cost effective manner.

Environmental Projects, City of Jacksonville (COJ), Various Locations, Florida – Senior Geologist and Project Manager for multiple dump and petroleum sites for the COJ in Jacksonville, Florida. The sites all required assessment and limited cleanup activities followed establishing restricted closures. Completion of closure at each site required working with FDEP and COJ legal departments to file and execute a Declaration of Restrictive Covenant (DRC).

Northside Generating Station, JEA, Jacksonville, Florida – Project Manager and Senior Geologist for the assessment and cleanup activities for numerous diesel fuel spills at Northside Generating Station. Field activities included site assessment (monitor well installation, and sampling of soil, groundwater, sediment, and surface water), free product recovery and extraction, remediation activities (application of microbial products and excavation); monitoring activities; Emergency Response services; preparing SAs, RAPs, and Long-term Monitoring (LTM) reports; and design and implementation of RAPs.

Remedial Services, JTA Maintenance Facility, JTA and FDEP, Jacksonville, Florida – Project Manager and Professional Geologist for two petroleum projects at this facility: one project identified around the active fueling station was funded by FDEP under the Early Detection Incentive (EDI) program; and one project associated with

the release of fuel at the facility's backup generator funded by the Jacksonville Transportation Authority (JTA). Site assessment and groundwater monitoring, including groundwater flow analysis, were performed in both investigation areas. A Site Rehabilitation Completion Order (SRCO) was obtained for the backup generator release in September 2013. Groundwater at the EDI site was eligible for No Further Action (NFA) pending soil analytical results.

Former Exxon #4-3948, FDEP, Jacksonville, Florida – Project Geologist and Project Manager for the assessment and remediation of a former gas station facility. Performed a 0.25-million dollar source removal under the FDEP Petroleum Cleanup Program. The project also involved designing a Limited Scope Remedial Action Plan to address remaining soil and groundwater contamination located on the property edge and in the street right of way. The site is currently being redeveloped with a new convenience store and gasoline station.

Petroleum Fuel and Terminal, FDEP, Jacksonville, Florida – Project Geologist and Project Manager for a bulk facility with imminent threat status. Negotiated with FDEP to perform two source removals and installation of a sump catch basin system with a combined total of approximately $800K. The results of these remediation efforts abated the threat and achieved the goal of FDEP removing the imminent threat status of the site.

Fish Market, Jacksonville Transportation Authority, Jacksonville, Florida – Project Geologist and Project Manager for the Fish Market project for the expansion of a local bus maintenance facility. Investigated soil impacts at the site, which showed impacts of lead, arsenic, and hydrocarbons.

Montana Avenue, Jacksonville Transportation Authority, Jacksonville, Florida – Project Geologist and Project Manager for a 3.5-acre parcel with lead and arsenic impacted soil for Jacksonville Transportation Authority. Assessed impacts and performed excavations at the site to remove the highest concentrations of contaminants. Right-of-way permitting and permitting to remove trees during the excavation were performed. Risk Assessment and establishment of institutional controls are ongoing and will be used to prepare the site for sale by the current owner for future commercial development.

Redstone Arsenal, Shaw Environmental, Huntsville, Alabama – Professional Geologist and Team Leader for bedrock investigation activities at the active military base. Coordinated with drilling subcontractor and field team to install 45 deep monitor wells into bedrock across the 8-square mile base in restricted and non-restricted access areas.

Moon's Garage, Private Property Owner, Jacksonville, Florida – Project Manager for assessment and remediation of petroleum impacted soil and groundwater associated with former fuel tanks at the site. Successfully removed accessible impacted media and negotiated long term annual monitoring of soil and groundwater impacts under the main building at the site.

Auburndale Department of Health (DOH) Well Investigation, FDEP, Auburndale, Florida – Project Manager for the assessment and source determination of hydrocarbon impacts present in private potable wells monitored by the DOH. The site was made a priority by FDEP and designated with imminent threat status. The site assessment was completed and FDEP is currently working with DOH to determine the best way to protect the private property owners.

Paul Fitch, PE, LAC, Other Services Team Leader

Years with ASL
20 years

Total Years of Experience
25 Years

Employee Title
Environmental Engineer

Office
Jacksonville, FL

Academic Background
B.S., Electrical Engineering, University of Central Florida, 1992

Professional Registrations
Florida LAC No. AX64
Florida PE, No. 57447
Alabama PE, No. 25490
Georgia PE, No. 029107
Maine PE, No. 12743
Mississippi PE, No. 17340
Louisiana PE, No. 33197
N. Carolina PE, No. 34671
S. Carolina PE, No. 26699
Illinois PE, No. 062.061557
Texas PE, No. 103209
Alaska PE, No. 13715

Mr. Fitch has over 25 years of experience on environmental engineering projects. Mr. Fitch brings a wealth of knowledge in compliance with environmental regulations and preparation of Physical Condition Assessments and EBS documents. He has performed over 500 ESA/EBS projects over the past 22 years for private, state and federal clients. He has also prepared Phase I and II ESA Reports, Spill Prevention Control and Countermeasure (SPCC) Plans, Storm Water Pollution Prevention Plans (SWPPP) and Baseline Environmental Assessments for various federal facilities including CBC Gulfport, NAS Meridian, NSA New Orleans, and the John C. Stennis Space Center. Assessment and audit experience includes compliance audits for the Fernandina Beach Municipal Airport, the Jacksonville Transportation Authority, local commercial businesses, and apartment complexes.

Project Experience

Industrial Hygiene and Environmental Consulting Services, Master Service Agreement Duval County School Board, Duval County, Florida – Project Engineer for comprehensive lead-based paint surveys of all of the county's existing elementary, middle and high schools; preparation of Environmental Site Assessments and Remediation for new school facilities; and assessment and development of a comprehensive soil and groundwater sampling plan at a proposed new school facility formerly used as a golf course and World War II bombing target range.

State Cleanup and Pre-Approval Site, Florida Department of Environmental Protection (FDEP), Florida – Senior Engineer and Technical Reviewer for various tasks under the FDEP State Cleanup and Pre-Approval Sites. Tasks included groundwater and soil sampling for a variety of petroleum pre-approval sites throughout Florida.

12 SPCC Updates for Five Sites, JEA, Jacksonville, Florida – Senior Project Engineer responsible for SPCC plans at 12 JEA electric and water/sewer facilities and prepared new SPCC plans for five JEA electric and water/sewer facilities in Jacksonville, Florida.

Lead-Based Paint and Hazardous Waste Management and Program Development, Buckman Lock, Palatka, Florida – Senior Project Manager for a comprehensive asbestos and lead-based paint survey at the Buckman Lock Facility located in the former Cross-Florida Barge Canal. These services were provided to assess and quantify ACM and LBP-containing materials throughout the facility and to assist the owner in developing a strategy for their removal. Developed a LBP abatement specification designed to protect the client and allow the bidding contractor the flexibility to design an appropriate work plan for the removal processes.

Continuing Contract for Consulting Services, Jacksonville Transportation Authority, Florida – Team Leader and Senior Design Engineer for environmental compliance, site engineering, consulting with regulatory officials, quality assurance, assessment, oversight and implementation for multiple projects at JTA owned/operated facilities. Updated facility SPCC Plan, SWPPP and underground storage tank/aboveground storage tank (UST/AST) compliance documentation for multiple JTA facilities. Prepared structural, electrical, and fire protection design for $1.5 million AST upgrade project.

Phase I and II ESA and ACM Survey Jacksonville Housing Authority, Brentwood Housing Complex, Jacksonville, Florida – Team Leader and Technical Reviewer for a Phase I and II ESA and asbestos demolition survey for the

Brentwood Housing Complex. The site consisted of approximately 59 acres developed with 594 residential apartment units, an administrative building, and a police station and was surrounded by metal-barred fencing.

Phase I ESAs, Regions Financial Corporation, Various Locations, Florida – Team Leader and Technical Reviewer for numerous Phase I ESAs involving hazardous waste and petroleum sites throughout the southeastern United States. Due diligence work is performed in accordance with ASTM standards and Regions Bank specifications for additional non-scope items. In addition to the Phase I ESA, preliminary evaluation for ACMs, lead-based paint, and mold are conducted at various sites. Activities performed included conducting a site inspection, evaluating current/historical uses of the subject site and surrounding properties, reviewing an Environmental Data Resources (EDR) Report, interviewing the site owner and occupant, and determining recommendations for further investigation activities.

Multiple Phase I and II ESAs, USACE New Orleans District, New Orleans, Louisiana – Team Leader and Technical Reviewer of multiple Phase I and II ESAs for the USACE New Orleans District. Tasks included site surveying, historical review, sampling, and interviews for report preparation. All site assessments were performed in accordance with ASTM 1527standards.

Neighborhood Stabilization Program, City of Jacksonville, Florida – Team Leader and Technical Reviewer for Phase I ESAs, asbestos, lead-based paint, and mold survey reports for the City of Jacksonville's Neighborhood Stabilization Program.

APAC Southeast, Inc. Stormwater Inspections, Various Locations – Team Leader for quarterly stormwater inspections at five asphalt plants in the southeast. Samples were collected as required by the MSGP during or just following a qualified rain event and submitted for laboratory analyses. The facilities were inspected to ensure that the completed Discharge Monitoring Reports (DMRs) were submitted as required by the permit and stored on site to document the results of the stormwater sampling event.

State Cleanup and Pre-Approval Sites, FDEP, Florida – Team Leader and Technical Reviewer for various tasks under the FDEP State Cleanup and Pre-Approval Sites. Tasks include groundwater and soil sampling for a variety of petroleum pre-approval sites throughout Florida

NAVFAC Southeast, Engineering Services associated with the Navy's Pollution Prevention Program and Navy Hazardous Waste Management Program — Senior Design Engineer for a five-year, five-million NAVFAC Southeast IDIQ contract providing engineering services in support of the Navy's Pollution Prevention (P2), Emergency Planning and Community Right-to-Know (EPCRA), Hazardous Materials (HM), and Environmental Management Systems (EMS) programs. Secondary support services are provided for their Military Range and RCRA management programs.

Monitoring Report, Sites 5 & 6, NAS Meridian, Meridian, Mississippi – Senior Engineer for Semi-Annual Long Term Groundwater Monitoring Report for Site 5 & 6, Former Pesticide Mixing Area, Naval Air Station (NAS) Meridian, Meridian, Mississippi. Activities included field investigations and groundwater sampling.

Environmental Condition of Property Reports and Hazmat Surveys at Multiple Marine Corps Reserve Locations – Senior Engineer for Environmental Condition of Property (ECP) surveys for Marine Corps Reserve Centers (MCRCs) in Newport News, Virginia; Wyoming, Pennsylvania; and Grand Rapids, Michigan; and Hazardous Material Surveys for MCRCs in Newport News, Virginia; Wyoming, Pennsylvania; Grand Rapids, Michigan; Brooklyn, New York; and Oklahoma City, Oklahoma.

Kevin Ashman, PG, GIS Specialist

Years with ASL
9 Years

Total Years Experience
9 Years

Employee Title
Project Geologist

Office
Jacksonville, FL

Academic Background
B.A., Geology, Minor, GIS, Georgia Southern University, Statesboro, GA, 2009

Professional Registrations
State of Florida, Professional Geologist License No. PG2948
State of Georgia, Professional Geologist License No. PG002225

Professional Training
OSHA 40-Hour Safety Training for Hazardous Waste Activities

Mr. Ashman has over nine years of experience in the environmental industry. He has actively participated in a wide range of environmental applications, including Phase I/II Environmental Site Assessments (ESAs), Transaction Screen Process (TSPs), contamination screening evaluations (CSEs) for corridor studies along right-of-ways, environmental reviews for neighborhood stabilization program areas, and Environmental Compliance Evaluations (ECEs).

Mr. Ashman's responsibilities have included site inspections, field sampling, and report writing as part of environmental due diligence projects. Mr. Ashman also has experience in collecting, analyzing, and compiling field data and has prepared technical reports, including Phase I/II ESAs. As part of Phase I ESAs, he has performed preliminary asbestos-containing material, lead-based paint, mold, and wetland evaluations. As part of Phase II ESAs, he has experience soil boring completion, soil screening using an organic vapor analyzer, soil sampling, groundwater well installation, groundwater monitoring, groundwater sampling, and sediment sampling.

Project Experience

Environmental Assessment of District Lands, St. Johns River Water Management District, Florida – Project Scientist and GIS Technician for Phase I ESAs. Performed site inspections, historical aerial photograph reviews, regulatory database reviews, conducted interviews with the property owners, representatives and government agencies, and completed reports documenting the findings.

EPCRA Sections 311/312/313 Compliance Support, United States Army Corps of Engineers (USACE), Fort Belvoir, Virginia – Project Manager on EPCRA compliance projects at Fort Belvoir. Conducted site inspections and interviews, developed inventory summaries, and prepared and reviewed necessary reporting forms, submittals, and compliance documentation.

ECEs, Headquarters United States Marine Corps (USMC), CH2M Hill, Various Marine Corps Installations – Evaluator II for the USMC ECE Program at the following installations: Marine Corps Air Ground Combat Center (MCAGCC) 29 Palms, Marine Corps Air Station (MCAS) Beaufort, MCAS Camp Pendleton, MCAS Cherry Point, MCAS Iwakuni, MCAS Miramar, MCAS New River, MCAS Yuma, Marine Corps Base Camp (MCB) Camp Lejeune, MCB Camp Pendleton, MCB Hawaii, MCB Quantico, Marine Corps Logistics Base (MCLB) Albany, MCLB Barstow, Marine Corps Recruit Depot (MCRD) Parris Island, and Marine Corps Support Facility (MCSF) Blount Island. Project responsibilities included evaluating USMC installation and unit environmental compliance and assessing risks. Findings were input into the USMC Web Compliance Assessment & Sustainment Systems (WEBCASS) application.

CSE, Interstate 10 (I-10) Capacity Improvements from I-295 to I-95, Jacksonville, Florida – Project Scientist and GIS Technician for a Level 1 CSE along a five-mile stretch of I-10 between I-295 and I-95. The proposed construction activities for the subject corridor consisted of the widening and reconstruction of I-10 by adding two general-purpose lanes in each travel direction. ASL identified a total of 74 sites as having the potential to impact the subject corridor. In addition, ASL evaluated five proposed pond sites in the vicinity of the subject corridor. The assessment was completed in accordance with the Florida Department of Transportation Project Development and Environment Manual, Part 2, Chapter 22.

Miscellaneous Phase I ESAs and TSPs, Southeastern, US – Project Geologist for multiple Phase I ESAs and TSPs on vacant land, managed forests, residential, commercial and industrial properties in Alabama, Florida, Georgia, Mississippi, and Tennessee with property sizes ranging up to 6,500 acres.

Miscellaneous Contamination Screening Evaluations (CSEs), Northeastern Florida – Project Scientist and GIS Technician for Level I CSE activities for assessment and management of potentially impacted soil and groundwater within the proposed construction right-of-way for roadway improvement and seawall rehabilitation projects. Activities included site reconnaissance, an extensive review of historical documentation (aerial photographs, Sanborn Fire Insurance Maps, and city directories) and regulatory files, and the creation of maps using ArcGIS software.

Consulting Services and Technical Support for Army Environmental Command, Multiple Locations – GIS Technician for Land Use Control Implementation Plans (LUCIPs) and Community Involvement Plans (CIPs) for multiple Army Installations. Project responsibilities included the gathering of data from the installations and the creation of maps using ArcGIS software.

Consolidated Site History Report, USACE Louisville District, Formerly Used Defense Sites (FUDS), Kinross, Michigan – GIS Technician and Researcher for an Air Force base that operated during World War II and was later used as an Air Defense Command and Strategic Air Command facility. The project required extensive site reconnaissance, the collection of GPS coordinates, and the creation of multiple maps using ArcGIS software.

Formerly Used Defense Site (FUDS) Preliminary Assessments, USACE Louisville District, Multiple Locations – GIS Technician for Preliminary Assessments for FUDS Camp Mount Vernon, Rockville Air Force Station, and Freeman Army Airfield. Project responsibilities included gathering data and the creation of multiple maps using ArcGIS software.

Habijax Urban Redevelopment Project, Jacksonville, Florida – Project Scientist. Performed pre-screening of homes and vacant land for redevelopment in the Downtown Jacksonville area using federal Housing and Urban Development procedures. Conducted approval process through Florida's State Historic Preservation. Pre-screening included wetland identification, asbestos risk identification, FEMA flood risk identification, and lead-based paint risk identification.

Hazardous Waste Management, NAVFAC Southeast, NAS Kingsville, Texas – Project Scientist for a hazardous waste management project at NAS Kingsville. Conducted site visits to identify and inventory RCRA hazardous and potentially hazardous wastes destined for disposal; collected and analyzed samples; obtained MSDS sheets and prepared waste stream determination (WSD) forms based on generator knowledge, MSDSs and analytical results; and completed waste profiles and manifested waste material for shipment.

Ash Remediation Sites, Jacksonville, Florida – Field Scientist for the investigation of possible contamination associated with the presence of incinerator ash in and around former municipal ash disposal sites in including the Brown's Dump Site, Forest Street Incinerator Site, 5th & Cleveland Street Incinerator Site, and Lonnie C. Miller Park. The investigation determines exposure to incinerator ash and contaminants of concern including lead, arsenic, polynuclear aromatic hydrocarbons, and dioxins within the ash and soil. Soil samples are field screened for metals using an X-Ray fluorescent instrument, and visually inspected for the presence of incinerator ash and soil samples for laboratory analysis are collected using various Florida Department of Environmental Protection accepted sampling techniques utilizing geoprobes and hand augers.

Watershed Hydrological Assessments, USACE Mobile District, Fort Campbell, Kentucky – GIS Technician for a watershed hydrological assessment project to assess impaired water bodies which are located on the installation. Project responsibilities included gathering data and preparing multiple maps using ArcGIS software.

Greg Itnyre, CHMM, Auditing Specialist

Years with ASL
6 Years

Total Years of Experience
20 Years

Employee Title
Project Manager

Office
Jacksonville, FL

Academic Background
B.S., Natural Science, Florida Southern College, Lakeland, Florida, 1997
M.S., Environmental Science, University of Wollongong, Australia, 2003

Professional Certification
Certified Hazardous Materials Manager #23589
Radon Measurement Technician #R2649

Professional Training
OSHA 40-Hour Safety Training for Hazardous Waste Activities
OSHA 8-Hour Refresher Training for Hazardous Waste Activities

Mr. Itnyre has more than 20 years of experience in the environmental industry. During this time, Mr. Itnyre has actively participated in a wide range of environmental applications including over 150 Phase I/II Environmental Site Assessments (ESAs), contamination screening evaluations (CSEs) for corridor studies along right-of-ways, and environmental reviews for neighborhood stabilization program areas. Mr. Itnyre has experience in site remediation utilizing bioremediation, in-situ chemical oxidation (ISCO), and in-situ air stripping and vacuum extraction (AS/VE).

Mr. Itnyre has conducted assessment and remediation of petroleum and non-petroleum contaminated facilities. He has experience in supervising and scheduling assessment activities, supervising on-site subcontractors, collecting and compiling field data, and preparing a wide range of technical reports that include site assessment, remedial planning, and monitoring reports. His experience also includes performance of remediation activities at hazardous and non-hazardous emergency response sites, and assessment activities at underground storage tank removals, upgrades, and installations.

Project Experience

Miscellaneous Phase I & II ESAs, Southeastern, US – Project Manager for multiple Phase I/II ESAs on vacant land, managed forests, residential developments, and commercial and industrial properties as part of real estate transactions in Florida, Georgia, and Alabama.

US Army Environmental Command (AEC), Various Installations – Prepared Land Use Controls Implementation Plans (LUCIPs) in support of the AEC for 10 army installations which included site visits to document existing Land Use Controls (LUCs), explanation of how LUCs were established, and defined responsibility for maintaining and managing LUCs.

Site Inspection of Aqueous Film Forming (AFFF) Area, United States Air Force Installations, Multiple Sites – Field Geologist for the screening level site inspections of potential per and polyfluorinated alkyl substance (PFASs) presence at AFFF release sites at various inactive and active Air Force Installations. The objectives of the investigations were to determine the presence or absence of these synthetic fluorinated chemicals within the groundwater, soil, or surface water/sediments, as well as potential receptor pathways that may impact human health. Field activities included oversight of Direct Push and Sonic Drilling crews, bore logging and sampling of extracted soil samples, Volatile Organic Compound (VOC) surveying, and the installation of temporary and permanent monitoring wells, well development, groundwater sampling, and Investigative Derived Waste (IDW) management.

Southside Incinerator Site, Jacksonville, Florida – Project Manager for the supplemental site assessment of contamination associated with the presence of incinerator ash in and around the former Southside Incinerator municipal ash disposal site. The investigation determined exposure to incinerator ash and contaminants of concern including lead, arsenic, polynuclear aromatic hydrocarbons (PAHs), and dioxins within the ash and soil. Soil samples were field screened for metals using an X-Ray Fluorescence (XRF) instrument and visually inspected for the presence of incinerator ash, and soil samples were collected for laboratory analysis using various FDEP accepted sampling techniques.

Habijax Urban Redevelopment Project, Jacksonville, Florida – Project Scientist for the pre-screening of homes and vacant land for redevelopment in the Downtown Jacksonville area through federal Housing and Urban Development procedures. Conducted approval process through Florida's State Historic Preservation. Pre-screening included wetland identification, asbestos risk identification, FEMA flood risk identification, and lead-based paint risk identification.

CSE, Interstate 95 (I-95) / SR-102 Interchange Improvements, Jacksonville, Florida – Project Manager for a Level 1 CSE conducted in association with the I-95 and Airport Road (SR-102) interchange improvements. The approximate 1-mile corridor was located between Airport Court and City Center Boulevard. ASL identified various petroleum-related facilities with the potential to impact construction activities along the proposed improvements to the interchange.

CSE, SR-483, Daytona Beach, Florida – Project Manager for a Level II CSE for right-of-way improvements of approximately three miles of corridor along SR 483. Conducted several pond evaluations to evaluate proposed pond sites along SR-483. Evaluated various petroleum-related facilities with the potential to impact construction activities along the proposed improvements to the corridor.

Ash Remediation Project, City of Jacksonville, Florida – Lead Inspector for the Jacksonville Project New Ground incinerator ash remediation project. Performed oversight of excavation and confirmation sampling activities during the removal of incinerator ash from residential parcels.

City of Deltona, NSP, Deltona, Florida – Project Manager for environmental assessments for residential properties in Deltona, Florida. Coordinated field operations for multiple employees, prepared reports, and provided verbal and written results to the City of Deltona while adhering to a strict schedule.

City of Daytona Beach, Westside Regional WWTP, Daytona Beach, Florida – Project Manager for assessment and remediation of petroleum impacted soil and groundwater associated with former fuel tanks at the site. Successfully removed approximately 90 tons of petroleum impacted soil under the FDEP Petroleum Preapproval Program.

Embry-Riddle Aeronautical University, Daytona Beach, Florida – Project Manager for the removal of an oil/water separator and excavation of approximately 110 tons of impacted soil. Designed and performed an interim remedial action plan for petroleum and chlorinated solvent impacted groundwater utilizing a two-part ISCO reagent. Following the construction of a parking lot in the vicinity of the former oil-water separator, post active remediation monitoring was performed at the site to ensure the effectiveness of the ISCO technology.

Automotive Crushing Facility, Private Property Owner, Jacksonville, Florida – Environmental Scientist for assisting client to meet compliance under an EPA RCRA consent order. Also assisted in performing a site assessment in accordance with FDEP Chapter 62-780, FAC for the property.

Former Enron, Gas Processing Center, Brooker, Florida – Environmental Scientist for assessment and remediation of a natural gas condensate fuel blending facility. Provided oversight of subcontractors for the installation of a remediation system utilizing AS/VE with thermal oxidation covering over 20 acres of impacted land. Provided operation & maintenance of the remediation system.

Matthew Butterworth, Project Scientist

Years with ASL
9 Years

Total Years Experience
14 Years

Employee Title
Project Manager

Office
Jacksonville, FL

Academic Background
B.S., Marine Science, University of Wales, 1993

Professional Certifications
Florida-Licensed Pesticide Applicator #CM24623
Stormwater Erosion Control and Sediment Inspector #11673

Professional Training
OSHA 40-Hour Safety Training for Hazardous Waste Activities
OSHA 30-Hour Construction Safety and Health Training

Mr. Butterworth has over 14 years of experience as a project scientist for various aspects of environmental projects including natural resources assessment and management, Phase I/II Environmental Site Assessments (ESAs), contamination screening evaluations, contamination assessments, remedial action plans, and environmental permitting.

As a Project Manager, Mr. Butterworth has supervised and trained field personnel; conducted quality assurance/quality control (QA/QC) checks; prepared cost estimates and budget tracking procedures; evaluated data collected in the field to design remediation techniques for contaminated groundwater and soil; and prepared reports to communicate the findings with appropriate recommendations to clients and regulatory agencies. He also has experience in project management, remediation techniques, and pesticides.

Project Experience

Stormwater Management and Design, Rivertown, St. Joe Company, St. Johns, Florida – Project Scientist providing stormwater management services for a 4,500-unit Development of Regional Impact and Master Planned Community located in St. Johns County along the St. John's River. Services performed as part of this contract include weekly and qualified rain event site inspections of active construction areas and associated surface waters; documentation of inspections in weekly reports to the client; and coordination withFlorida Department of Environmental Protection (FDEP) and St. Johns River Water Management District (SJRWMD) officials.

Ash Remediation Project, City of Jacksonville, Florida – Lead Inspector for the Jacksonville Project New Ground Incinerator Ash Remediation project. Performed oversight of excavation and confirmation sampling activities during the removal of incinerator ash from 100 residential parcels. Prepare daily activity reports.

Petroleum Restoration Program, Florida Department of Environmental Protection (FDEP), Various Locations, Florida – Project Scientist for multiple petroleum assessment sites in the north, central, and south regions of Florida. Assessments include contractor oversight, monitor well installation, soil boring installation, soil and groundwater sampling, and report preparation.

Contamination Assessments, Underground Storage Tank Facilities, North Central Florida – Performed contamination assessment activities and assisted with the preparation of remedial action plans for underground storage tank facilities in North Central Florida which included the installation of groundwater monitoring wells, soil and groundwater sampling, site suitability determinations, remedial action design, and report compilation for submittal to client and regulatory authorities. Facilities included non-FDEP program sites as well as sites eligible for participation in the Pre-Approval Cleanup and Petroleum Cleanup Participation programs.

Remediation Services, Gasoline Station Sites, Florida – Project Scientist for remediation of soil and groundwater contamination at several gasoline station sites, both active and inactive. These projects involved the removal of contaminated soils, the operation and maintenance of air sparging and soil vapor extraction technologies, oversight of injection events, collection of groundwater samples, and report preparation.

Site Assessment of Emerging Contaminants, United States Air Force (USAF) Installations, Multiple Sites – Project Scientist for the screening level site assessments of potential per and polyfluorinated alkyl substance (PFAS) presence at Aqueous Film Forming Foam (AFFF) release sites at various active USAF Installations. The objectives of the investigations were to determine the presence or absence of these synthetic fluorinated chemicals within

the groundwater, soil, or surface water/sediments, as well as potential receptor pathways that may impact human health. Field activities include soil boring and monitor well installation by direct push and sonic drilling technologies, lithologic characterization, soil and groundwater sample collection, vertical surveying, and investigation derived waste (IDW) management.

88th Regional Support Command, Forest Management and Invasive Species Control, US Army Corps of Engineers (USACE) Omaha, Joliet, Illinois; Kingsbury, Indiana; and Weldon Spring and Belton, Missouri – Project Manager of forest management and invasive species control activities performed as part of a multi-year Integrated Pest Management plan. Invasive species were removed using manual, mechanical, and chemical methods. Approximately 300 acres of woodland and 545 acres of grasslands were restored to their native condition. The contract also included a task to inventory marketable ash (*Fraxinus spp.*) trees following an infestation of Emerald Ash Borer. Approximately 100 acres of woodland were assessed and the client was provided with an estimate of total marketable board feet available.

Remedial Investigation Feasibility Study (RI/FS) at Former Nike C-47, Portage, Indiana – Project Scientist for the Former Nike C-47 property in Portage, Indiana, which was a study in accordance with Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) to determine extent of contamination. Involved field and laboratory efforts, engineering evaluation of the data, and reporting.

Miscellaneous Phase I and II ESAs, Florida – Project Scientist for Phase I and II ESAs on vacant land, managed forests, and commercial and industrial properties, with property sizes ranging from 0.25 acres to 4,000 acres.

Development of Antilles Rapid Assessment Methodology (RAM) Phase III, USACE Jacksonville District, Florida and Puerto Rico – Project Scientist for the Antilles RAM Phase III in Jacksonville, Florida, and Puerto Rico. Assisted with the development and implementation of a method for rapidly assessing the condition of 151 wetland sites in Puerto Rico. The Antilles RAM assessment metrics were adapted from the USA-RAM.

88th Regional Support Command, Wetland Restoration and Invasive Species Management, USACE Omaha District, Joliet, Illinois – Project Manager for invasive species management and habitat restoration activities on a 20-acre portion of a unique prairie wetland. The project involved the eradication of invasive trees and shrubs without damaging the unique wetland habitat. The wetland plant community was restored by broadcasting a mix of native grass and forb seeds.

Justin Vojak, GIT, Project Geologist

Years with ASL
3 Years

Total Years Experience
5 Years

Employee Title
Project Geologist

Office
Orlando, FL

Academic Background
B.S., Geology, California State University, 2014
M.B.A., Texas A&M University, 2017
Certificate of Energy Finance & Logistics, Texas A&M University, 2017

Professional Certifications
Stormwater Erosion Control and Sediment Inspector #42479
Geologist in Training (GIT)
FDOH Certified Radon Measurement Specialist
EPA AHERA-Certified Asbestos Inspector

Professional Training
OSHA 40-Hour Safety Training for Hazardous Waste Activities

Mr. Vojak has five years of experience in the fields of environmental consulting and petroleum geology. He has performed a variety of tasks ranging from Phase I/II Environmental Site Assessments (ESAs), asbestos inspection and sampling, to Lead Geologist for exploratory drilling projects for the United States Air Force. Mr. Vojak's experience from the oil and gas industry includes a wide range of geologic skills such as creating geologic logs of well bores, well core evaluation, and geochemical analysis. He has extensive training with a variety of geochemical/geotechnical tools focused on applications for production optimization and reservoir characterization. Throughout his work experience, Mr. Vojak has been actively involved in project report writing, client correspondence, and sub-contractor oversight.

Project Experience

Environmental Assessment of District's Lands, St. Johns River Water Management District (SJRWMD), Florida – Project Geologist for various due diligence, environmental assessment, and remedial activities for the SJRWMD continuing services contract. Project experience includes Phase I ESAs, Phase II ESAs including soil and groundwater sampling, various assessments including sediment and wastewater sampling, and source removal activities including excavation.

Site Assessment of Emerging Contaminants, Multiple Sites, U.S. Air Force Installations – Lead Geologist for the screening level site assessments of potential per- and polyfluoroalkyl substance (PFAS) presence at Aqueous Film Forming Foam (AFFF) release sites at various active United States Air Force Installations. The objectives of the investigations are to determine the presence or absence of these synthetic fluorinated chemicals within the groundwater, soil, or surface water/sediments, as well as potential receptor pathways that may impact human health. Field activities include soil boring and monitor well installation by direct push and sonic drilling technologies, lithologic characterization, soil and groundwater sample collection, vertical surveying, and Investigative Derived Waste (IDW) management.

Lake Denham Muck Farm, SJRWMD/Lake County Water Authority, Lake County, Florida –Project Geologist for Phase I and Phase II ESAs of for a Phase I ESA of approximately 768 acres of former agricultural and submerged land. Assisted in historical records review (historical aerial photographs, city directories, and topographic map), site reconnaissance, conducted field sampling tasks, interpreted analytical data, and assisted in the preparation of the Phase I and II ESA reports.

Lake Apopka Field Station, Pilot Project Wastewater Sampling, SJRWMD, Orange County, Florida – Project Geologist for the wastewater sampling associated with the Lake Apopka Field Station Septic Tank Replacement Pilot Project. Conducted the wastewater sampling activities over an 18-month period, across two SJRWMD contracts.

Petroleum Restoration Program, FDEP, Various Locations, Florida – Project Geologist conducting petroleum assessment and cleanup activities at sites in the north, central, and south regions of Florida. Responsibilities include soil and groundwater sample collection, monitor well installation, groundwater flow determination, and preparing reports to document laboratory results and site conditions.

Sunshine Food Mart #363, FDEP Petroleum Restoration Program (PRP), Orlando, Florida – Geologist for site assessment of a gas station facility. Coordinated and performed the assessment activities including lithologic

characterization and sampling, monitor well installation by hollow stem and direct push drilling technologies, and groundwater sampling. Worked with site occupants to minimize disruption to the active business at the site and maximize the safety of the crew.

Asbestos Inspection and Sampling, U.S. Postal Service (USPS), Lake Worth, Florida – Preformed asbestos inspection and sampling at a USPS facility. Coordinated with facility personnel to limit impacts to operations and meet client requests. Conducted laboratory analysis review and report writing for project completion.

Ray's Café Remedial Action Plan (RAP), FDEP PRP, Tampa, Florida – Geologist for the implementation of RAP activities. Site activities included soil boring and air sparge well installation by hollow stem auger drilling, lithologic characterization by split spoon sampling, waste characterization, and groundwater sampling.

Upstream Oil & Gas (Exploration & Production), Texas, New Mexico, and Oklahoma – Wellsite Geologist for the exploration and assessment of oil and gas production well locations by mud rotary drilling up to 10,000 feet below ground surface and up to 22,000 feet in total depth. Utilized geochemical analytical tools to identify the presence of hydrocarbons in the reservoir structure, identified fluid facies and contact horizons, and preformed lithologic characterization to determine production potential. Performed maintenance and calibration of all analytical instrumentation equipment, prepared samples, preformed data quality control, and created geologic well logs. Generated daily reports and communicated with the client staff on- and off-site.

G. Scott Hughes, Pollutant Storage System Contractor

Aerostar SES LLC

Years with ASL
20 Years

Total Years Experience
26 Years

Employee Title
Senior Project Manager

Office
Jacksonville, FL

Academic Background
B.S., Applied Physics, Jacksonville University, 1992

Professional Registrations
Florida Pollutant Storage System Contractor # PCC1256929

Professional Training
JEA-Safety Trained
OSHA 40-Hour Safety Training for Hazardous Waste Activities
OSHA 8-Hour Refresher Training for Hazardous Waste Activities
Project Management, Fred Prior Seminars, 1996
USEPA Field Sampling Standard Operating Procedures, Environmental Technical Center, 1993
Groundwater Hydrology, University of North Florida, 1993
IBM-PC Applications for Groundwater Pollution and Hydrology- National Ground Water Association, 1995
FDEP Field Sampling Training Course for Groundwater, Soil, Surface Water, Wastewater, Sediment, and Ultra-Trace Metals, 2002
USACE Construction Quality Management for Contractors, 2008

Professional Affiliations
Member, Florida Petroleum Marketers and Convenience Store Association
Member, Northeast Florida Builders Association

Mr. Hughes has 26 years of experience as an environmental scientist. Mr. Hughes has extensive and varied experience related to industry with a wide range of environmental applications. He has managed environmental projects for private industry and the public sector. His experience includes design, construction and installation of underground utilities, including water and electrical service. He has experience in supervising and scheduling field personnel, supervising subcontractors, collecting and compiling field data, and preparing a wide range of technical reports. Mr. Hughes has participated in the installation of underground utility systems at over 60 commercial facilities located in the southeastern US.

Mr. Hughes is responsible for managing ASL's Florida Department of Environmental Protection (FDEP) Pre-Approval department. His responsibilities include direct contact with FDEP and local regulators to ensure compliance with regulations, negotiation of work orders, and preparation of work plans. Project Manager for emergency response projects throughout Florida.

Mr. Hughes' responsibilities include design and implementation of vapor extraction and air sparging systems and interpretation of geological and hydrogeological data. Mr. Hughes has experience with underground storage tank removals; installation, operation and trouble-shooting of remediation systems; including groundwater pumping, vapor extraction, air sparging, and bioremediation. He has managed field personnel, subcontractors, regulatory issues, and reporting requirements for various sites. His project management approaches have resulted in substantial cost savings for facilities.

Project Manager for emergency response projects throughout Florida. Managed field personnel, subcontractors, regulatory issues, and reporting requirements for various sites. Project management approaches resulted in the successful remediation of affected areas, providing substantial cost savings for facilities. He has provided emergency response for petroleum marketers.

Project Experience

Site Assessment, St. Johns River Water Management District (SJRWMD), Clay Island Farm and Franks Farms, Astatula, Florida – Project Manager for a site assessment in accordance with the FDEP Low Scored Site Initiative (LSSI). Site activities included a soil vapor survey, temporary wellpoint installation, and soil and groundwater collection to determine the extent of petroleum contamination; and preparing Report of Findings.

Petroleum Restoration Program, Florida Department of Environmental Protection (FDEP), Various Locations, Florida – Project Director for a contract with the FDEP Bureau of Petroleum Storage Systems that provides petroleum contamination cleanup services to the FDEP, including preparing SAs, emergency response, remedial design, remedial implementation, source removals, remediation system installation and monitoring, and O&M.

General Environmental Contract, City of Jacksonville, Florida – Project Manager for the City of Jacksonville's General Environmental Contract. Projects included site assessments for petroleum storage tank facilities, underground storage tank removals, and emergency response operations. Responsible for acquiring resources and manpower, budgeting, scheduling, and project deliverables.

Miscellaneous Spill Response Services, Various Locations, Florida – Project Manager for spill response services associated with surface spills throughout the state for the past five years. Directed field personnel, screened hydrocarbon impacted soils with Organic Vapor Analyzers (OVAs), and segregated hydrocarbon impacted soils at many sites in Northeast Florida. The efforts to contain petroleum products have resulted in the successful remediation of affected areas resulting in substantial cost savings for clients.

Restoration Program Support, Parts A and B Oil/Water Separator (OWS) Removal and Sampling Procedures, USACE Savannah District, Fort Bragg, North Carolina – Project Manager responsible for the removal of OWSs and the following associated tasks: the preparation of planning documents; closure of the 90-Day Hazardous Waste Storage Facility at Building 614; removal of 12 OWSs; removal of three ASTs and three USTs; removal of one grit chamber; removal of four maintenance racks; removal of two wash racks; in-place closure of one UST; preparation of closure reports; excavation of petroleum-contaminated soil; and off-base soil disposal, soil sampling, and groundwater sampling.

Remedial Action Planning (RAP) and Reporting, Spill Site TU/US-C500, USACE Omaha District, MacDill AFB, Tampa, Florida – Project Manager responsible for development and implementation of a RAP at Spill Site TU/US-C500, including review of historical reports, development of a RAP, implementation of RAs, quarterly groundwater sampling, and preparation of active and post-active Monitoring Reports for the site.

Soil and Groundwater Remediation System, Pipeline #110, Alachua, Florida – Designed a soil and groundwater remediation system for Pipeline #110 to clean up significant soil and groundwater contamination. The selected remedial approach involved the design and installation of underground utilities and electrical connections to the remediation system. The system design was approved by the Alachua County Department of Environmental Protection on behalf of the Florida Department of Environmental Protection.

Comprehensive Compliance Audit Bus Maintenance Facility, Jacksonville Transportation Authority, Jacksonville, Florida – Conducted a Comprehensive Compliance Audit of the Jacksonville Transportation Authority's primary bus maintenance facility. The audit included a thorough review of facility drawings, permits, and underground storage tank systems, including electrical connections, and leak detection systems.

Source Removal Activities, Baron # 31, FDEP Facility # 168507432, Jacksonville, Florida – Project Manager for a contract from FDEP at Baron # 31, FDEP Facility # 168507432, to implement source removal activities in accordance with a FDEP approved RAP Modification. Site activities included obtaining right-of-way permits, abandoning monitor wells, installing sheet piling, removing 2,235 tons of hydrocarbon impacted soil for incineration, removing and disposing of USTs, backfilling and compacting of clean soils, and restoring the site to original surface conditions.

Source Removal, Cardinal Village, Jacksonville, Florida – Project Manager for the source removal of PCB, TRPH, and SVOC impacted soil at the Cardinal Village. Approximately 200 tons of contaminated soil located adjacent to the site building were excavated, transported, and disposed of properly. Source removal activities were performed over two areas of approximately 1,552 square feet and 750 square feet to depths between one and six feet below land surface. A 1,035 square foot concrete pad was constructed.

James Smith, Jr., P.E., Environmental Remediation

Years with ASL
17 Years

Total Years Experience
36 Years

Employee Title
Senior Engineer

Office
Jacksonville, FL

Academic Background
M.S., Civil Engineering, Auburn University, 1983
B.C.E., Civil Engineering, Auburn University, 1981

Professional Registrations
Florida Professional Engineer, No. 45048
Georgia Professional Engineer, No. 17614

Professional Training
OSHA 40-Hour HAZWOPER Training and Annual 8-Hour Refreshers
USACE Construction Quality Management for Contractors
Multiple Professional Engineer Practice Area Continuing Education Programs

Mr. Smith has served as Project Manager and/or Senior Design Engineer for more than 700 projects at active or former gasoline service stations and large distribution terminals for both DoD and private sector clients. Mr. Smith has demonstrated experience working with regulators during engineering design of remediation systems, negotiating FFP work orders under the Florida Department of Environmental Protection (FDEP) Petroleum Cleanup Program, managing subcontractors, and managing Performance-Based Cleanup projects for numerous agencies. He also serves as Senior Engineer and Construction Manager for ASL's DoD remedial and environmental construction programs.

Project Experience

Harris Bayou Dewatering, St. Johns River Water Management District (SJRWMD), Florida – Senior Design Engineer for the performance of groundwater monitoring to predict the impact of significant dewatering activities on the potential migration of an upgradient plume of groundwater impacted by hydrocarbons. The modeling results were used to obtain regulatory approval to perform the dewatering without having to perform expensive treatment of the dewatering system effluent.

Environmental Assessment of District's Lands, SJRWMD, Florida – Senior Engineer for various due diligence, environmental assessment, and remedial activities for the SJRWMD continuing services contract. Project experience includes Phase I ESAs, Phase II ESAs including soil and groundwater sampling, various assessments including sediment and wastewater sampling, and source removal activities including excavation.

Hydrogeologic Consulting Services, Manufacturing Facility, Northeast Florida – Project Engineer for a project providing hydrogeologic consulting services for a manufacturing facility in northeast Florida related to well field expansion and renewal of a Consumptive Use Permit. Reviewed all relevant background information and historical data related to the construction and performance of the wells, recorded water level data, and water quality information. Provided modeling services using the St. Johns River Water Management District model to evaluate specific drawdown of the water table at the individual wells. Submitted a Monitoring Plan to the St. Johns River Water Management District designed to monitor water quality and quantity conditions in the site area.

Miscellaneous Remediation Projects at Gasoline Service Stations and Distribution Terminals, Various Locations – Project Manager for more than five hundred projects at active or former gasoline service stations and four projects at a large distribution terminal owned by major oil companies. These projects involved the evaluation of remediation technologies, design of groundwater extraction systems including wells and pumps, groundwater modeling, design of treatment system air strippers and aeration tanks, design of infiltration galleries, and preparation of remedial action reports. These sites were located throughout the southeast and Midwest.

Miscellaneous Remedial Action Plans, Various Locations – Project Manager for more than 200 projects involving the implementation of approved Remedial Action Plans at hydrocarbon impacted sites. These projects involved groundwater pump and treat, vapor extraction, air sparging, and additional technologies.

Naval Station Mayport Pistol Range Remediation, Jacksonville, Florida – Project Director for a project for Naval Station Mayport to remove and reclaim the spent bullets from the outdoor pistol range on a rapid-response basis due to range operation safety concerns coupled with urgent training requirements. The original project scope allowed for the sifting of the berm soil to a depth of two feet to remove spent bullets, while the sifted soil was to

be returned to the berm. The scope was modified to include removal of a portion of the berm material when it was discovered a soil solidification agent had been added to the lower portion of the berm. The project was accomplished by removing the soil from the berm, shifting the soil through a 3/16th inch vibrating screen, and returning the cleaned soil to the berm. A total of 47.9 tons of material were removed from the berm including 16.5 tons of lead that was recycled.

Remedial Services, Citgo-Studebaker, Green Cove Springs, Florida – Environmental Engineer for remedial services at the Citgo Studebaker, a former retail gas station. The project included monitor well installation and soil and groundwater sampling; removal of underground fuel tanks, fuel lines, and canopies; removal and disposal of impacted soils; and utilization of Oxygen Releasing Compound (ORC) during excavation to enhance groundwater cleanup. Performed management and oversight on the project.

UST Removals, Amoco-Conners, Callahan, Florida – Environmental Engineer for the follow-on assessment and remediation activities associated with the three USTs removed from the former retail gas station. The project included advancing approximately 40 soil borings to evaluate and delineate impacted soils; screening soil samples with an OVA; collecting soil samples for laboratory analyses; installing monitor wells; performing source removal activities; and collecting confirmatory groundwater samples. Following the source removal activities, dissolved hydrocarbon concentrations were still present above State cleanup target levels. Currently conducting additional remedial action at the site to address groundwater impacts.

Cecil Field Naval Air Station Remedial Implementation, Jacksonville, Florida – Project director for a remedial implementation project at the Cecil Field Naval Air Station. The project included a task to excavate, transport, and dispose of approximately 150 tons of petroleum-contaminated soil. The project involved the installation of two complete air sparging systems including construction of the AS wells, trenching and piping to all wells, construction of an equipment compound and installation of the air compressors along with all mechanical and electrical controls.

NAVFAC Southeast RAO/LTM BOA, Remedial System O&M and Groundwater Monitoring, Florida – Senior Design Engineer for remedial system operation, maintenance, groundwater monitoring, and regulatory reporting services for a groundwater pump and treat, soil vapor extraction remediation system at a former Navy Exchange gasoline filling station. Services included performing routine operation and equipment maintenance activities, emergency repairs, system retrofitting and optimization, quarterly and annual groundwater sampling and reporting, and monthly System Performance Status and Annual Remedial Action Optimization reporting.

Public Water Supply, Tower Chemical Superfund Site, Clermont, Florida – Environmental Engineer for a conceptual design and technical memorandum associated with the connection of residential properties to public water supply in the vicinity of the Tower Chemical Superfund Site, a 15-acre abandoned pesticide manufacturing facility. Designed and constructed a residential water supply system to replace private water supply wells. Prepared a feasibility study and oversaw all design and system permitting activities. Prepared USACE-approved Work Plans. Managed all field construction operations and prepared as-build drawings.

Contamination Investigation at Transportation Facility, North Carolina – Project Manager for a multifaceted contamination investigation of a large transportation facility in North Carolina. The project involved a thorough review of the client environmental compliance history/audit, comprehensive sampling of soils, groundwater, and stream sediments; performance of a feasibility study to evaluate potential remediation alternatives; and negotiations with the North Carolina Department of Environmental Management to develop consent order.

Environmental Risk Identification Program, Various Locations – Audit team leader for an environmental risk identification program involving more than fifty facilities for a major transportation company. Audit sites and environmental compliance sites were located throughout the eastern half of the U.S. Site inspection activities included investigating CERCLA, RCRA, TSCA, EPCRA, UST, AST, and other environmental and safety concerns.

Miles Eckert, Industrial Hygiene

Years with ASL
11 Years

Total Years Experience
11 Years

Employee Title
Project Manager

Office
Jacksonville, FL

Academic Background
B.S., Biology, University of North Florida, 2010

Professional Training
OSHA Certified 40-Hour Hazardous Waste Safety for the General Site Worker
OSHA 30-Hour Construction Safety and Health
EPA AHERA-Certified Asbestos Inspector
EPA AHERA-Certified Contractor Supervisor for Asbestos Abatement
NIOSH 582 Certified Analyst
FDOH Certified Radon Measurement Technician #R2370
EPA Lead-based Paint Inspector
EPA Lead-based Paint Risk Assessor

Mr. Eckert has over 11 years of experience in the environmental consulting industry. During this time, Mr. Eckert has actively participated in a wide range of environmental applications including Phase I/II Environmental Site Assessments (ESAs), Hazardous Waste Compliance Audits, Asbestos Inspections, LBP Inspections, and Mold Inspections. Mr. Eckert has provided comprehensive Indoor-Air-Quality investigations to include visual inspections, air and tape/lift/bulk sampling, field notes, lab coordination, interpretation of results, and reporting and recommendations for remediation of mold, particulate dust, and debris for multiple clients and properties/buildings.

Project Experience

Asbestos-Containing Materials (ACM) Surveys, 13 Buildings, Marine Corps Recruit Depot (MCRD) Parris Island, Beaufort, South Carolina – Project Manager, Field Team Leader (FTL), Site Safety and Health Officer (SSHO), Competent Person for Fall Protection, and Asbestos Inspector for the initial asbestos surveys of 13 buildings at MCRD Parris Island. Project tasks included development and implementation of a sampling protocol, interpretation of laboratory analysis, and report development outlining findings. As the Competent Person for Fall Protection, project tasks included the inspection of fall arrest harnesses, performing roof surveys, and maintaining a control zone for safe work activities.

ACM Surveys, 43 Buildings and Steam Lines, MCRD Parris Island, Beaufort, South Carolina – Project Manager, FTL, SSHO, Competent Person for Fall Protection, and Asbestos Inspector for the initial and re-inspection asbestos surveys of 43 buildings and steam lines at MCRD Parris Island. Project tasks included a review of previously conducted asbestos surveys, development and implementation of a sampling protocol, interpretation of laboratory analysis, and report development outlining findings. As the Competent Person for Fall Protection, project tasks included the inspection of fall arrest harnesses, performing roof surveys, and maintaining a control zone for safe work activities.

ACM and LBP Surveys, SR 528 from SR 520 to Industry Road, Orange and Brevard Counties, Florida – Certified Asbestos and Lead Inspector for ACM and LBP surveys of 20 FDOT bridges along SR 528. ASL inspected each bridge, identified 272 homogeneous areas, and collected 816 asbestos samples. Painted surfaces were also observed on two bridges, and two paint-chip samples were collected and analyzed to evaluate for LBP.

Phase I and II ESA, ACM Survey, Asbestos Management Plan, and Radon Survey, Virtue Arts and Science Academy, Jacksonville, Florida – Industrial Hygienist for a Phase I and II ESA, ACM survey, asbestos management plan, and radon survey for the Virtue Arts and Science Academy. Project tasks included the placement and retrieval of radon sampling canisters, interpretation of laboratory analysis, and preparation of report outlining findings.

ACM Surveys, 92 Buildings, Naval Station Newport, Newport, Rhode Island – Project Manager, FTL, SSHO, Competent Person for Fall Protection, and Asbestos Inspector for the initial and re-inspection asbestos surveys of 92 buildings at Naval Station Newport. Project tasks included a review of previously conducted asbestos surveys, development and implementation of a sampling protocol, interpretation of laboratory analysis, and report development outlining findings. As the Competent Person for Fall Protection, project tasks included the inspection of fall arrest harnesses, performing roof surveys, and maintaining a control zone for safe work activities.

Asbestos Air Clearance Monitoring, 10-Story Building, Jacksonville, Florida – Project Scientist for asbestos abatement clearance monitoring within the office building at 121 W. Forsyth Street after abatement activities had concluded.

Asbestos Air Monitoring and Oversight for Emergency Asbestos Demolition of the Discount Seafood Store, Jacksonville, Florida – Asbestos Contractor/Supervisor to monitor air perimeter of emergency asbestos demolition of entire Discount Seafood structure.

ACM, LBP, and Hazardous Components Surveys, 13 Buildings, Davis-Monthan Air Force Base (AFB), Tucson, Arizona – Project Scientist, FTL, SSHO, and Asbestos Inspector during the asbestos, lead, and hazardous components surveys conducted throughout the Medical Complex at Davis-Monthan AFB. Project tasks included collecting samples for lab analysis, documenting the materials throughout the buildings, tabulating the results of the laboratory analysis, and report preparation.

Asbestos and LBP Surveys, Eight Buildings, Fort Jackson, Columbia, South Carolina – Project Scientist to identify ACMs and LBP within eight buildings at Fort Jackson.

ACM and Hazardous Components Survey, Fort Knox Medical Center, Fort Knox, Kentucky – Project Scientist, FTL, SSHO, and Asbestos Inspector for the asbestos and hazardous materials survey located at the Fort Knox Medical Center. Project tasks included the development and implementation of a sampling protocol, interpretation of laboratory analysis, and report development outlining findings.

Mold Remediation in Barracks Room of Building 1061, Naval Submarine Base, Kings Bay, Georgia – Industrial Hygienist for mold remediation with minor construction services for a 152-room, three-story, occupied barracks building housing the Marine Corps security force for Kings Bay Submarine Base. Mold remediation services were requested due to the identification of mold behind wallpaper on concrete block walls in the living quarters.

Vertical Missile Production Buildings (VMPBs) 1 and 2 Asbestos Survey, Naval Submarine Base, Kings Bay, Georgia – Project scientist for asbestos abatement monitoring and clearance inspections conducted at VMPB 1 and VMPB 2. Performed abatement monitoring for the removal of asbestos-containing caulking located on the roof seams.

LBP and Asbestos Surveys for 16 Buildings at Tyndall AFB, Florida – Project Scientist responsible for completing LBP and asbestos surveys for 16 buildings at Tyndall AFB in Florida.

Engineering Services Associated with the Navy's Asbestos, LBP, PCBs, Mold and other Hazardous Material Programs, NAVFAC Southeastern – Asbestos Inspector for activities including ACM, LBP, mold, and radon in commercial buildings and other structures. Additional tasks included inspections and surveys, material (Bulk) sample collection and analysis, O&M plans, remediation plans and specifications development, and third party oversight.

Angels Food Mart, Milton, Florida – Project Scientist providing oversight for parking lot repair after underground storage tank (UST) removal from a former gas station located in Milton, FL.

Chris Teaf, PhD, Human Health and Ecological Risk Assessor

HSWMR
Hazardous Substance & Waste Management Research, Inc.

Years with Current Firm
35 Years

Total Years Experience
45 Years

Academic Background
Ph.D., Toxicology, 1985, University of Arkansas for Medical Sciences

M.S., Biological Science, 1980, Florida State University

B.S., Biology, 1975, Pennsylvania State University

Professional Affiliations
American Association for the Advancement of Science

Environmental and Land Use Law Section, Florida Bar Association

Florida Academy of Sciences

National Association of Underwater Instructors

National Environmental Training Association

Sigma Xi

Society of Toxicology

Society for Environmental Toxicology and Chemistry

Society for Risk Analysis

Dr. Chris Teaf is Director of Toxicology and President of HSWMR. Dr. Teaf is experienced in the development and review of site-specific toxicological evaluations and risk assessments in the context of environmental and public health considerations. He has prepared risk assessments and risk-based target concentrations and assessed environmental and human health risks of ethylene dibromide; evaluated potential human health risks from exposure to contaminated groundwater; developed toxicological profiles and assistance in endangerment assessment activities; and reviewed medical records for public health evaluations and trial testimony. Dr. Teaf is Florida based, and has worked with various Water Management Districts advising on high profile ecological risk issues.

Project Experience

- Preparation of toxicological risk assessments for sites exhibiting soil and groundwater contamination by over 100 specific contaminants.
- Development and review of site-specific toxicological evaluations in the context of environmental and public health considerations, including CERCLA and state-lead sites.
- Preparation of risk assessments and risk-based target concentrations for RCRA/HSWA risk-based closure at sites exhibiting soil and groundwater contamination by organic and inorganic compounds.
- Assessment of environmental and human health risks of ethylene dibromide.
- Adjunct Research Faculty, Institute for Science & Public Affairs, Florida State University, Tallahassee, FL.
- Per- and Polyfluoralkyl Substances Forum Steering Committee.
- Acquisition and evaluation of pertinent scientific literature regarding health effects of shellfish poisoning.
- Presentation of toxicological information and risk assessment regarding PCBs in soils and groundwater.
- Litigation support concerning occupational risks posed by exposure to pesticides, volatile organics, metals and other contaminants; performance of numerous environmental assessments.
- Evaluation of potential human health risks from exposure to groundwater contaminated with gasoline constituents.
- Development of toxicological profiles and assistance in endangerment assessment activities for selected facilities.
- Review of medical records for public health evaluations and trial testimony.
- Review and development of technical comments for site-specific risk assessment regarding emissions from municipal incinerators and power plants.
- Detailed risk assessments for historical manufactured gas plant facilities.
- Permitting activities regarding a commercial hazardous waste landfill.

Appendix C: Reference Letters

21 West Church Street
Jacksonville, Florida 32202-3139

August 15, 2020

JEA

ELECTRIC

WATER

SEWER

To Whom It May Concern:

Re: Letter of Recommendation for Aerostar SES LLC

Over the course of more than 20 years, Aerostar SES LLC (ASL) has provided consulting support to JEA Environmental Services, delivering excellent work product, consistently performed in accordance with proposed budgets and schedules, quality standards, and safety. JEA has been very pleased with the tasks performed by ASL, including Phase I and II ESAs; environmental audits; petroleum contamination site assessments, remediation, and emergency response; preparing Spill Prevention and Countermeasure Plans (SPCC); storage tank closures; and field support for various water, sewer, and electric distribution infrastructure projects. ASL currently holds a 5-year Master Service Agreement with JEA.

Should you have questions concerning this reference, please contact the undersigned at (904) 665-7605.

Sincerely,

Lindsay Starner
Manager, Environmental Permitting and Compliance

DUVAL COUNTY
PUBLIC SCHOOLS

Office of Facilities Design, Construction, and Contracts
1701 Prudential Drive | Jacksonville, FL 32207
904.390.2279 | Fax 904.390.2265
www.duvalschools.org

August 6, 2020

To Whom It May Concern:

Re: Letter of Recommendation for Aerostar SES LLC

Over the course of more than 20 years, Aerostar SES LLC (ASL) has provided consulting support to the Duval County Public Schools (DCPS) Facilities Division. I have worked with them extensively since assuming responsibility for Environmental Services in 2019. They consistently deliver excellent work product and customer service. They have always performed in accordance with proposed budgets and schedules, quality standards, and safety. I have been very pleased with the tasks performed by ASL, including Phase I and II ESAs; environmental audits; petroleum contamination site assessments, remediation, and emergency response; storage tank closures; and Industrial Hygiene services including radon, mold, and water intrusion testing. ASL currently holds a 5-year Master Service Agreement with the DCPS.

Should you have questions concerning this reference, please feel free to contact me at (904) 390-2846.

Sincerely,

Robbie Bumpers
Director of Projects and Environmental Services
Office of Facilities, Engineering, Design and Construction
Duval County Public Schools

SLEIMAN ENTERPRISES
1 SLEIMAN PARKWAY, SUITE 270
JACKSONVILLE, FLORIDA 32216
TELEPHONE (904) 731-8806
Fax (904) 731-1108

August 26, 2020

St. Johns River Water Management District
7775 Baymeadows Way, Suite 102
Jacksonville, Fl. 32256

To Whom it May Concern:

I am writing this correspondence to recommend the services of Aerostar SES, LLC. Our firm has used this company on many occasions and have found them to be diligent, fair, and trustworthy. As a developer and purchaser of real estate we regularly contact Mr. Frank Redway at our local Jacksonville office for insight, and guidance as to environmental issues on properties we are either buying or refinancing. Often, we find ourselves needing to move quickly to secure a property and Aerostar has never let us down. Their customer service and work product are second to none.

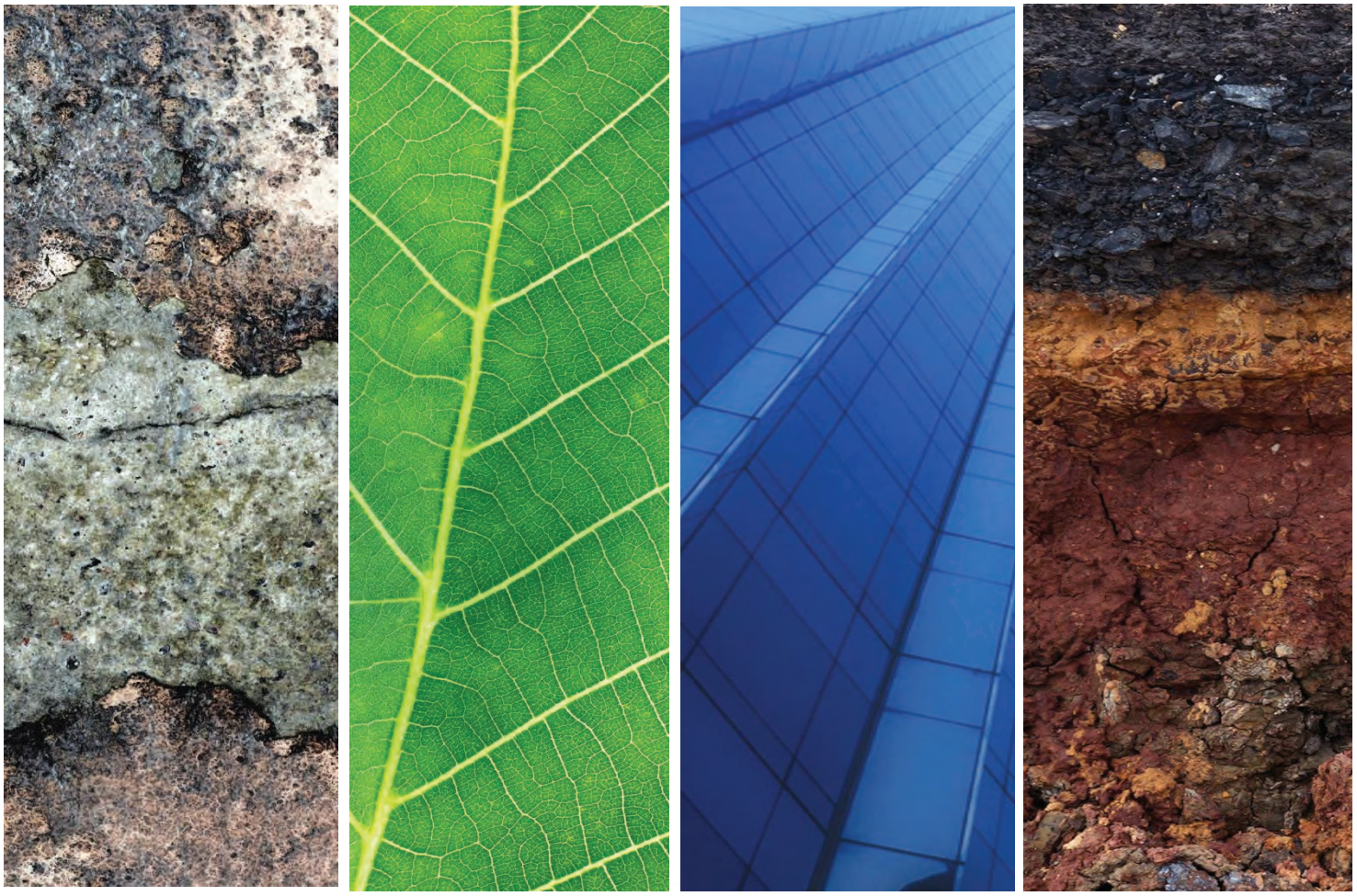
As the Vice President of Development for Sleiman Enterprises I do a considerable amount of work in the field of environmental compliance and permitting. I have utilized the services of this firm for over 15 years and will continue to do so in the future.

Thank you for allowing me to express my humble opinion.

Best regards,

By: _____
Michael Herzberg, AICP.
Vice President of Development, Sleiman

St. Johns River Water Management District
Environmental Assessment Of District's Land
Request For Qualifications 35906



SJRWMD

Environmental Assessment of District's Land
RFQ No. 35906

September 3, 2020

~ORIGINAL~

1675 Lee Road
Winter Park, Florida 32789
(407) 740 6110
terracon.com

Terracon

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Submittal Letter

September 3, 2020

Carol Taylor Miller
Senior Procurement Specialist
Office of Financial Services
Saint Johns River Water Management District
4049 Reid Street
Palatka, Florida 32177

RE: Environmental Assessment of District's Land
Request for Qualifications 35906

Dear Ms. Miller and Selection Committee Members:

Terracon Consultants, Inc. (Terracon) is honored to provide the Saint John's River Water Management District (District) with this response to the Request for Qualifications 35906 that seeks to secure professional environmental consulting firms to perform comprehensive environmental engineering services including, but not limited to: Phase I, II, III and IV Environmental Site Assessments (ESA), and other reports as required by the U.S. Environmental Protection Agency (EPA), Florida Department of Environmental Protection (FDEP), and local agencies for contaminated sites. We understand that our role will be to provide professional environmental consulting to the District including, but not limited to: Task A. Completion of Environmental Site Assessments - Phase I, II, III and IV ESAs; Task B. Environmental Sampling of soil, sediment, groundwater and or surface water; and Task C. Other environmental assessment tasks – feasibility studies, human health and ecological risk assessments (ERAs); environmental health studies, environmental health and safety plans, environmental remediation activities, lead and asbestos surveys and air quality monitoring.

- *Providing services to the local area for 20+ years*
- *Have served both the SJRWMD and SFWMD since the late 1990's*
- *Currently under contract with 85+ other municipalities/school boards in the State of Florida for engineering related services*
- *Licensed Engineering, Geology & Asbestos Business*
- *Local & State of Florida Licensed Key Professional Staff with more than 140 years of combined experience*
- *Full Fleet of Drilling Equipment (Truck-mounted & Portable)*
- *Certified, Trained, & Experienced Professional & Field Staff*

Qualifications

Terracon, its team members and staff dedicated to this project clearly have the experience necessary to complete the tasks that will be conducted as part of this contract. Our staff and team have been providing professional environmental consulting services to local governments, quasi-governmental agencies and private clients within the Central Florida region for more than 29 years. Terracon offers an 11-office network in Florida with a staff of more than 300 with 100 strong in our Central Florida Winter Park office (including 20 registered professional engineers, 3 registered professional geologists, 2 registered architects, 2 structural engineers, 15 project managers, 20 drillers, and 40 qualified technicians). In addition, our Florida personnel includes numerous staff with certifications for asbestos, radon, mold, lead based paint, and indoor air quality. The Florida offices are a strategic component of a national environmental, geotechnical, materials testing, and facilities engineering firm with more than 150 offices nationwide.

Submittal Letter

Terracon's **Environmental Consulting Group** is supported with a team of highly experienced professional staff including our local staff is comprised of long-time Florida area professional environmental scientists and engineers including a Florida Licensed Asbestos Consultant; USEPA Certified Lead Inspectors, Risk Assessors and Project Designers; Florida-licensed Mold Assessors; Florida Department of Health-Certified Radon Measurement Specialist; several AHERA asbestos inspectors, management planners, project designers and contractor supervisors; Certified Industrial Hygienist (CIH); CHMM-Certified Hazardous Materials Managers; Florida-Certified Indoor Environmental Consultant, AEE-Certified Indoor Air Quality Professionals; seven Florida-licensed Professional Geologists and seven Florida-licensed Professional Engineers.

Our experienced professional environmental consultants provide clients with the following services: Environmental site assessments (Phase I/II/III/IV and complete Chapter 62-780, FAC assessments); Remediation planning, implementation, monitoring and reporting; Environmental contamination sampling and analysis; Petroleum storage tank site closure; Brownfield (State and Federal) guidance and implementation; Environmental project feasibility studies; and other Miscellaneous environmental projects including asbestos review and assessment, hazardous materials management, indoor air quality management, radon testing & mitigation, lead based paint surveys, mold assessment, environmental permits, compliance, and clearances, wetland delineations, endangered species impact analysis and permitting, ecological services and emergency response.

Terracon understands the needs of the District and the types of projects that will arise. We have completed hundreds of environmental assessments and related services for municipalities continuing services contracts, as well as private clients, many of which incorporated pre-acquisition due diligence assessments, along with soil and groundwater quality assessment and remediation for commercial and agricultural properties throughout the District's 18-county region. Over the past several years, Terracon has completed preacquistion due diligence services for a number of facilities that included Phase I ESAs, with Phase II, III, IV ESAs where appropriate, as evidenced by the following highlighted projects:

- 5,000-acre Confidential Phase I ESA Site, St. Johns County, FL
- 13,000-acre Confidential Phase I ESA Site, Green Cove Springs, FL
- 30,000-acre Blue Head Ranch Limited Site Investigation, Southwest Highlands County, FL
- 16,900± Acres of Agricultural Farmland at Three Properties, St. Lucie, Indian River, and Okeechobee Counties, FL
- 2,025 ± Acres of Agricultural Farmland, Myakka City, Manatee County, FL
- Confidential Phase II ESA – Cattle Dipping Vat, Green Cove Springs, FL
- Contamination and Remediation Site, Bonnet Spring Park, Lakeland, FL
- Rosa L Jones Site, City Of Cocoa, FL
- Former Beck Ranch Property, Osteen, Volusia County, FL
- Tiger Bay State Forest Raw Water Production Well No.39r (Formerly No. 54), Ormond Beach, FL

Terracon is currently under contract with 85+ municipalities in the State of Florida for engineering related services. We have provided environmental assessment services, similar to the requirement of the District, for more than 40 of these contracts. Our full qualifications and experience are further highlighted in this submittal. Our track record of providing geotechnical services under contract 28357 and contract 27463 with the District, along with the proven background and technical experience of our staff and team makes us amply qualified to provide these services. We are familiar with the typical projects and services listed in the scope of work and we are committed to performing the work assigned under this contract in a professional and timely manner. **We are confident in our ability to exceed your expectations with our project delivery.**

Submittal Letter

Terracon has provided a full range of Environmental Consulting & Planning services to our clients throughout the local area and across the State of Florida. Our Clients includes cities, counties, school boards, banks, major land developers, and state agencies including our current continuing environmental consulting contracts with the Volusia County School Board, City of Cocoa, City of Palm Bay, City of Apopka, City of Altamonte Springs, Canaveral Port Authority, Brevard, Orange and Seminole County Public Schools, just to name a few. Our local Principal-in-Charge, Mark Mulligan, P.G. has performed services within the district's 18 counties in northeast and east-central Florida throughout his 27-year career. He is thoroughly familiar with the SJRWMD's improvement plans and is dedicated to serve you on all your project needs. Because of our extensive experience delivering projects to large clients like SJRWMD, Terracon is:

- ***Responsive:*** Acting quickly to meet your deadlines. Our employee owners are available to you 24/7 and can quickly mobilize our rigs and people to respond to your needs. We stand ready and commit to accommodate you for routine and emergency requests, should they arise.
- ***Reliable:*** With vast experience working locally throughout the SJRWMD, providing services for the various Cities, County and many high-profile projects, Terracon is a dependable partner to SJRWMD.
- ***Resourceful:*** Applying new processes and state of the art techniques allows Terracon to proactively solve project challenges. We continue to expand our capabilities to ensure you receive the highest quality professional service available. Currently we have 11 offices and over 330 professionals in Florida available to meet your needs. We bring institutional knowledge that equals time savings and value to the citizens of SJRWMD.

Additionally, as a Florida-licensed professional engineering, geological, asbestos, mold assessor business organization, Florida Department of Health certified radon measurement business, AIHA-Certified Industrial Hygienist and Florida Department of Environmental Protection qualified petroleum cleanup contractor, Terracon can expeditiously and professionally respond to all the district's environmental needs.

We appreciate the opportunity to submit our proposal in accordance with the requirements of St. Johns River Water Management District RFQ. Terracon looks forward to the opportunity to further present our qualifications to you. If you have any questions or comments regarding the information presented herein, please feel free to contact us.

Sincerely,

TERRACON CONSULTANTS, ...

Mark Mulligan, P.G.
Client Manager

Tab 1

Firm's and Subcontractors' Capabilities to Conduct Work

Terracon

Tab 1 Firm's and subcontractors' capabilities to conduct work

TERRACON CONSULTANTS, INC. – PRIME CONSULTANT

Role: Contract Management, Environmental Site Assessments ESAs, Environmental Sampling, Feasibility Studies, Human Health and Ecological Risk Assessments, Environmental Health Studies, Environmental Health and Safety Plans, Environmental Remediation Activities, Lead and Asbestos Surveys, and Air Quality Monitoring.

Terracon Consultants, Inc., a private corporation registered with the Florida Department of State (FEID #42-1249917) is a 100% employee-owned, consulting engineering firm (ENR Rank 22) that has been providing quality services to clients. Since 1965, Terracon has evolved into a successful multi-discipline firm specializing in: **Environmental, Facilities, Geotechnical, and Materials Testing Services**.

Terracon was formed in 1965 in Cedar Rapids, Iowa, as Soil Testing Services of Iowa. The firm soon expanded to include Soil Testing Services of Kansas. In 1980, the firms consolidated and became Terracon Consultants, Inc. The corporate headquarters is located in Olathe, Kansas, and provides centralized corporate services for all of Terracon's offices. Over its history, Terracon has achieved significant expansion through both internal growth and acquisitions. During the 1990s, Terracon began expansion throughout the United States and now has more than 5,000 employees in more than 150 offices and 50 states nationwide. Nodarse & Associates, Inc. and Dunkelberger Engineering & Testing, Inc. joined Terracon in 2011 and 2013, respectively. Terracon has more than 53 years of successful environmental projects and we are familiar with the typical projects and services listed in the scope of work and we are committed to performing the work assigned under this contract in a timely manner. Terracon has performed work in the state of Florida and has completed thousands of projects since 1991.

Our 11-office network in the State of Florida has more than 300 employee owners, including 51 Florida licensed professional engineers (P.E.s) and 10 Florida licensed professional geologists (P.G.s). With the strength of our firm and our existing operations, Terracon has a tremendous presence and broad scope of knowledge throughout the District's 18 counties in northeast and east-central Florida and nationwide.

Terracon, a national leader in Environmental work, provides extensive technical expertise through our core services (environmental, facilities, geotechnical and materials). This knowledge ensures we are prepared to address environmental and related engineering technical issues that may be encountered. Terracon provides the core services required for this contract. Terracon relies upon demonstrated experience and knowledge of local conditions and regulations to deliver solutions that are timely, practical, and make good business sense. We have supported ***more than 84,500 environmental projects across 50 states*** in the last three years. Terracon has a thorough understanding of local conditions and regulations and knows how to effectively manage the potential risks presented by hazardous materials and chemical releases that have impacted a site. Our targeted services increase clarity during project development and optimize solutions during design.

Our extensive environmental services capabilities cover everything from assessment to contamination cleanup (source removal and active remedial action); risk assessment, storage tank removal/replacement; well installation; asbestos surveys, abatement design, monitoring and operation & maintenance (O&M) plans and performance; lead-based paint assessment, abatement design and O&M Plans; indoor air quality (IAQ) and mold assessment and correctional measures; radon measurement and mitigation; spill prevention controls and countermeasures (SPCC) plans and training; Stormwater Pollution Prevention and Management Plans (SWPPP); National Pollutant Discharge Elimination System (NPDES) compliance; Health & Safety Plan preparation, wetland delineations, threatened & endangered (T&E) species surveys, gopher tortoise surveys and relocations, and environmental permitting.

Tab 1 Firm's and subcontractors' capabilities to conduct work

The Terracon Team is complemented by highly qualified and experienced professionals and specialty subconsultants/ subcontractors to provide each technical discipline required by this contract. Terracon has a long-standing relationship with all of the subcontractors listed below, working on hundreds of projects together in the past and currently. In these efforts, Terracon and its team members will provide the services necessary to resolve the issues identified within any given project. Our team's experience and focus on exceeding client expectations makes Terracon abundantly qualified to undertake this program. Our team subcontractors are highlighted hereafter.

SUBCONTRACTOR QUALIFICATIONS:

DRILLPRO, LLC D.B.A Groundwater Protection / Role: Drilling, Monitoring Well Installation, Soil Borings, Direct Push Drilling. Since 1986, Groundwater Protection (GP) has been the choice of environmental consulting and engineering firms for monitoring, assessment and remediation well installation. Specializing in environmental drilling services, GP has performed contamination assessment, injection events and well installation activities at remediation projects across the southeast including underground storage tank sites, industrial hazardous waste sites, 20+ federal Superfund sites, military installations, due diligence sites and NASA facilities.

EMSL Analytical / Role: Analytical Laboratory. EMSL provides Microbiology Laboratory Services for testing related to the Environment, Indoor Air Quality, and Product Testing at our laboratory in Orlando.

Grove Scientific & Engineering Company (GSE) / Role: Air Quality Monitoring/Environmental Permitting. Since 1987, Grove specializes in all Environmental Permitting at the County, State, and Federal Level. They bring extensive experience dealing with agencies both local and abroad. GSE has worked on a wide variety of industrial design, permitting and environmental site assessment and characterization projects in 45 states and 8 countries, working on multi-disciplined projects

JAEE Environmental Services, Inc. / Role: Drilling, Monitoring Well Installation, Soil Borings, Direct Push Drilling. JAEE offers a fleet of drill rigs working all over the state of Florida. They have experienced master drillers as well as two licensed water well contractors with over 20 years of experience. They specialize in soil and groundwater sampling, well construction and abandonment, and a variety of other environmental remediations.

Modica & Associates (M&A) / Role: Feasibility Studies, Human Health Ecological Risk Assessments and Environmental Health Studies. M&A is a full-service ecological consulting firm with over 30 years of service throughout central Florida. Core services include ecological site assessments, feasibility studies, conservation and land management planning, Environmental Resource Permitting, threatened and endangered species surveys, wildlife permitting and relocation, mitigation planning and monitoring and preliminary due diligence/ecological assessments. The mission of M&A is to provide sound, practical and reliable ecological consulting services in a cost-effective and timely manner. Through our commitment to providing quality services with attention to customer service, M&A has become renowned as one of the premier environmental consulting firms within the State of Florida.

Pace Analytical / Role: Analytical Laboratory. Pace offers the most advanced solutions in the industry, backed by truly transparent data, a highly trained team, and the service and support that comes from four decades of experience. Their full-service environmental testing laboratory in Ormond Beach, Florida and others across the country offer inorganic, organic and radiochemistry capabilities.

Petrotech Southeast, Inc. / Role: Environmental Remediation and Petroleum System Removal/ Installations. With 25 years in the environmental, industrial and recycling industries, Petrotech Southeast, Inc. offers services that range from environmental remediation and high-pressure cleaning to used oil recycling and process. They specialize in shoreline restoration, water treatment, transportation & disposal, lined pond cleaning, remediation system leasing, remediation system installation, excavation and tank cleaning & removal.

FORMS

SUBMITTAL FORM

Include this form in the response

RESPONDENT:

The undersigned, as Respondent, hereby declares and certifies that the only person(s) or entities interested in this submittal as principal(s), or as persons or entities who are not principal(s) of the Respondent but are substantially involved in performance of the Work, is or are named herein, and that no person other than herein mentioned has any interest in this submittal or in the Agreement to be entered into; that this submittal is made without connection with any other person, company, or parties making a submittal; and that this submittal is in all respects fair and in good faith without collusion or fraud.

Respondent represents to the District that, except as may be disclosed in an addendum hereto, no officer, employee or agent of the District has any interest, either directly or indirectly, in the business of Respondent to be conducted under the Agreement, and that no such person shall have any such interest at any time during the term of the Agreement, should it be awarded to Respondent.

Respondent further declares that it has examined the Agreement and informed itself fully in regard to all conditions pertaining to this solicitation; it has examined the specifications for the Work and any other Agreement documents relative thereto; it has read all of the addenda furnished prior to the submittal opening, as acknowledged below; and has otherwise satisfied itself that it is fully informed relative to the Work to be performed.

Respondent agrees that if its submittal is accepted, Respondent shall contract with the District in the form of the attached Agreement, and shall furnish everything necessary to complete the Work in accordance with the time for completion specified in the Agreement, and shall furnish the required evidence of the specified insurance.

Acknowledgment is hereby made of the following addenda (identified by number) received:

Addendum No.	Date	Addendum No.	Date
1	8/19/2020		

Terracon Consultants, Inc. — Respondent (firm name)

09/03/2020 — Date

1675 Lee Road, Winter Park, FL 32789 — Address

Mark.Mulligan@terracon.com — Email address

Signature

407-740-6110 — Telephone number

Mark Mulligan, P.G., Principal — Typed name and title

407-740-6112 — Fax number

CERTIFICATE AS TO CORPORATION

Include this form in the response

The below Corporation is organized under the laws of the State of Delaware ; is authorized by law to respond to this Request for Qualification and perform all work and furnish materials and equipment required under the Agreement, and is authorized to do business in the state of Florida.

Corporation name: Terracon Consultants, Inc.

Address: 10841 S. Ridgeview Road, Olathe, KS 66061

Registration No.: F04000000114

Registered Agent: ration Service Company

By: Vrana, Donald J. Digitally signed by Vrana, Donald J. DN: cn=Vrana, Donald J., ou=Legal Hold Users, email=Don.Vrana@terracon.com Date: 2020.08.31 14:29:42 -05'00'

Executive Vice President, Treasurer
(Official title)

(Affix corporate seal)

Attest: Michael J. Yost
(Secretary)

The full names and business or residence addresses of persons or firms interested in the foregoing submittal as principals or officers of Respondent are as follows (specifically include the President, Secretary, and Treasurer and state the corporate office held of all other individuals listed):

M. Gayle Packer/President

Donald J. Vrana/Treasurer,VP

Michael J. Yost/Corporate Secretary

Identify any parent, subsidiary, or sister corporations involving the same or substantially the same officers and directors that will or may be involved in performance of the Project, and provide the same information requested above on a photocopy of this form.

If applicable, attach a copy of a certificate to do business in the state of Florida, or a copy of the application that has been accepted by the state of Florida to do business in the state of Florida, for the Respondent and/or all out-of-state corporations that are listed pursuant to this form.

RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY

Florida dbpr

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

TERRACON CONSULTANTS, INC.

10841 S RIDGEVIEW ROAD
OLATHE KS 66061

LICENSE NUMBER: CA8830

EXPIRATION DATE: FEBRUARY 28, 2021

Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.

State of Florida
Department of State

I certify from the records of this office that TERRACON CONSULTANTS, INC. is a Delaware corporation authorized to transact business in the State of Florida, qualified on December 31, 2003.

The document number of this corporation is F04000000114.

I further certify that said corporation has paid all fees due this office through December 31, 2020, that its most recent annual report/uniform business report was filed on January 9, 2020, and that its status is active.

I further certify that said corporation has not filed a Certificate of Withdrawal.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Ninth day of January, 2020

Secretary of State

Tracking Number: 8115446990CC

To authenticate this certificate,visit the following site,enter this number, and then follow the instructions displayed.

https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication

AFFIDAVIT AS TO NON-COLLUSION AND CERTIFICATION OF
MATERIAL CONFORMANCE WITH SPECIFICATIONS

Include this form in the response

STATE OF FLORIDA

COUNTY OF ORANGE

I, the undersigned, Mark Mulligan, P.G. being first duly sworn, depose and say that:

1. I am the owner or duly authorized officer, representative, or agent of:
   Terracon Consultants, Inc.
   the Respondent that has submitted the attached submittal.
2. The attached submittal is genuine. It is not a collusive or sham submittal.
3. I am fully informed respecting the preparation and contents of, and knowledgeable of all pertinent circumstances respecting the attached submittal.
4. Neither Respondent nor any of its officers, partners, owners, agents, representatives, employees, or parties in interest, including this affiant, has in any way colluded, conspired, connived, or agreed, directly or indirectly, with any other Respondent, firm, or person to submit a collusive or sham submittal in connection with the Agreement for which the attached response has been submitted, or to refrain from submitting in connection with such Agreement, or has in any manner, directly or indirectly, sought by agreement, collusion, communication, or conference with any other Respondent, firm, or person to fix the price or prices in the attached submittal of any other Respondent, or to fix any overhead, profit, or cost element of the submittal prices or the submittal price of any other Respondent, or to secure through collusion, conspiracy, connivance, or unlawful agreement any advantage against the District or any other person interested in the proposed Agreement.
5. The attached submittal is fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the Respondent or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.
6. No official or other officer or employee of the District, whose salary or compensation is payable in whole or in part by the District, is directly or indirectly interested in this submittal, or in the supplies, materials, equipment, work, or labor to which it relates, or in any of the profits therefrom.
7. Any materials and equipment proposed to be supplied in fulfillment of the Agreement to be awarded conform in all respects to the specifications thereof. Further, the proposed materials and equipment will perform the intended function in a manner acceptable and suitable for the intended purposes of the District.

Signature: Mark Mulligan

Title: Principal

Subscribed and sworn to before me this 31st day of August, 2020.

Notary Public, state of Florida at Large

My commission expires: Julia Ann Brown

(SEAL)

JULIA ANN BROWN
NOTARY PUBLIC STATE OF FLORIDA
MY COMMISSION # GG183294
EXPIRES: 02/06/2022

QUALIFICATIONS — GENERAL

Include this form in the response

As part of the submittal, Respondent shall complete the following so that the District can determine Respondent's ability, experience, and facilities for performing the Work.

Name of Respondent: Terracon Consultants, Inc.

Respondent's tax identification No.: [redacted]

Year company was organized/formed: 4/22/1965

Number of years Respondent has been engaged in business under the present firm or trade name: Since 1980

Total number of years Respondent has experience in similar projects as described in the Statement of Work

55 years

Has Respondent previously been engaged in the same or similar business under another firm or trade name? If so, please describe each such instance.

Soil Testing Services of Iowa, Inc. (1965)

Soil Testing Services of Kansas, Inc. (1975)

Has Respondent ever been adjudicated bankrupt, initiated bankruptcy, or been the subject of bankruptcy proceedings on behalf of the current entity submitting this submittal or a prior entity that Respondent substantially operated or controlled? If yes, please describe the nature and result of those proceedings and the entity involved.

no.

Describe the background/experience of the person or persons who will be primarily responsible for directing the Work that will be performed pursuant to this submittal. This inquiry is intended to encompass the project manager and/or superintendent who will be engaged on a daily basis in directing performance of the Work.

Mr. Mulligan has over 27 years of experience in hydrogeology, environmental consulting, contamination assessment/remediation, project and personnel management. Mr. Mulligan is currently the Environmental Department Manager for the Winter Park, Florida office. He has extensive experience with Phase I and Phase II Environmental Site Assessments (ESA), complete Site Assessments per Chapter 62-770 and 780, FAC; Remedial Action Plans (RAP); environmental compliance associated with landfills involving monitoring well installation and sampling activities; emergency response actions; tank closure assessments; road construction and roadway corridor related projects; installation of stormwater piping and construction of stormwater ponds; installation and abandonment of horizontal and vertical groundwater monitoring wells, injection wells, recovery wells, piezometers and SVE wells.

PROPOSED SUBCONTRACTORS

Include this form in the response

Respondent must identify all portions of the Work Respondent intends to perform through subcontractors.

1. Name and address of subcontractor: **DrillPro, LLC d.b.a Groundwater Protection**
   2300 Silver Star Road, Orlando, FL 32804
   Description of work: Drilling, Monitoring Well Installation, Soil Borings, Direct Push Drilling
   Estimated value of Work: To Be Determined (TBD)

2. Name and address of subcontractor: **EMSL Analytical -** 3303 Parkway Center Court, Orlando, FL, 32808
   PACE Analytical - 8 East Tower Circle, Ormond Beach, FL 32174
   Description of work: Analytical Laboratories
   Estimated value of Work: TBD

3. Name and address of subcontractor: **Grove Scientific & Engineering**
   6140 Edgewater Drive, Suite F, Orlando, FL 32810
   Description of work: Air Quality Monitoring / Environmental Permitting
   Estimated value of Work: TBD

4. Name and address of subcontractor: **JAEE Environmental Services, Inc**
   3101 Peachtree Cir, Davie, FL 33328
   Description of work: Drilling, Monitoring Well Installation, Soil Borings, Direct Push Drilling
   Estimated value of Work: TBD

5. Name and address of subcontractor: **Modica & Associates**
   302 Mohawk Rd, Clermont, FL 34715
   Description of work: Feasibility Studies, Human Health Ecological Risk Assessments and Environmental Health Studies. This is a Woman-Owned Business
   Estimated value of Work: TBD

6. Name and address of subcontractor: **Petrotech Southeast, Inc.**
   23800 County Road 561, Astatula, FL 34705
   Description of work: Environmental Remediation and Petroleum System Removal/Installations
   Estimated value of Work: TBD

DRUG-FREE WORKPLACE FORM

This form required only in the event of a tie response

The Respondent, (business name) Terracon Consultants, Inc., in accordance with §287.087, Fla. Stat., hereby certifies that Respondent does the following:

1. Informs employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations

2. Publishes a statement notifying employees that

   a. the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against its employees for violations of such prohibition.

   b. as a condition of working on the contractual services that are the subject of this solicitation, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of chapter 893, Fla. Stat., or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five days after such conviction.

3. Gives each employee engaged in providing the contractual services that are the subject of this solicitation a copy of the statement specified in paragraph 2, above.

4. Imposes a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee convicted of a violation listed in sub-paragraph 2.b., above.

5. Makes a good faith effort to continue to maintain a drug-free workplace through implementation of §287.087, Fla. Stat.

As the person authorized to sign this statement, I certify that this firm complies fully with the above requirements.

By: Mark Mulligan, P.G. Mark Mulligan

Title: Principal

Date: 09/03/2020 /

Tab 1 Firm's and subcontractors' capabilities to conduct work

a) Description of knowledge of current ASTM E-1527 standard for conducting Environmental Site Assessments and of the EPA's All Appropriate Inquiry Rule (40 CFR Part 312)

Our licensed engineers and geologists are extensively knowledgeable and able to quickly identify and evaluate the applicable information required by All Appropriate Inquiries (AAI) and American Society for Testing and Materials (ASTM) standards. Terracon understands the value of local knowledge and knows which local agencies maintain the critical records to be reviewed to fully assess a particular property and identify environmental issues essential to your investment decisions.

Terracon's personnel knowledge of the environmental site assessment process, as described in the following sections, is built upon the evaluation of current and historical operations in accordance with the standards for Phase I ESAs outlined in ASTM E1527-13, 40 CFR Part 312, entitled, "Innocent Landowners, Standards for Conducting All Appropriate Inquiries (AAI), and ASTM E-2277-08.

b) Experience conducting Phase I ESA on large parcels of land (greater than 300 acres)

Our team has completed environmental assessment, testing and remediation on hundreds of sites of up to 500,000 acres in size and we have conducted a variety of assessments ranging from ASTM 1527-13 Phase I environmental site assessments (ESAs) to extensive subsurface investigations and complete remediation projects. Our ability to provide the full range of assessment, investigation, and remedial services is enhanced by our complete field service capability, as well as our diverse staff of professionals. Terracon has performed more than 40,000 Phase I ESAs and more than 10,000 site investigations during the past 20 years. Terracon's environmental staff can complete initial site assessments, permitting, and corrective action for the SJRWMD.

Terracon is one of the top Phase I ESA due diligence providers in the U.S. (Environmental Data Resources [EDR] rankings). We currently conduct over 10,000 ESAs annually and are approved by most major lending institutions. We are also one of the top due diligence providers in the U.S. for Small Business Administration (SBA) lending.

Terracon's personnel have conducted thousands of Phase I ESA's for public and private sector clients including:

- agricultural properties cattle/row crops
- commercial properties warehouse/distribution facilities
- industrial properties/marinas
- multifamily housing/retirement communities
- hospitals
- auto/truck dealerships; gas/service stations
- rental car facilities
- dry cleaners retail shopping centers
- borrow pits/lake fill/landfills/illegal dumps;
- undeveloped land/wetland

Terracon specializes in due diligence services to identify and address environmental issues that pose risks to the community, our clients, and their investments. ***Sample of our experience with ESA on large parcels of land greater than 300 acres are as follows:***

5,000-acre Confidential Phase I ESA Site
St. Johns County, Florida

Terracon conducted a Phase I ESA in accordance with ASTM E1527-13 for a 5,000-acre site located in North Florida. The site was under contract for acquisition by a confidential client for future developmental use. The site consisted of undeveloped woodlands, much of which was historically used for timberland. The site encompassed a total of 28 parcels owned by two landowners and was bisected by a major highway. Prior to facilitating the ESA, Terracon coordinated site access and developed a logistics plan to obtain codes/keys for numerous gates and entry points. The site reconnaissance was conducted over a five-day timeframe.

The Phase I ESA was conducted on time and within budget, meeting client expectations. This was facilitated through a well-planned and careful approach, that allowed for safe and efficient field review of the site and thorough desktop evaluation of the historical and current uses of the site and surrounding properties. This allowed the client to close on the property within their allotted due-diligence timeline.

PRIME RESPONDENT:
Terracon Consultants, Inc.

CLIENT:
Confidential

DATE:
Start: April 2020
End: May 2020

FEE:
$10,000

HIGHLIGHTS:
Phase I ESA
5000-acre site

13,000-acre Confidential Phase I ESA Site
Green Cove Springs, Florida

Terracon conducted a Phase I ESA in accordance with ASTM E1527-13 for a 13,000-acre site located in North Florida. The site was under contract for acquisition by a confidential client for continued use as timberland and future developmental use. The site consisted of undeveloped woodlands, much of which was historically used for timberland and by various hunting clubs. The site encompassed a total of 50 parcels owned by numerous landowners and was situated in a rural setting. Terracon obtained site access and developed a logistics plan through coordination with a long-term site land manager. The site reconnaissance was conducted over a five-day timeframe among two pairs of Terracon employees.

Through the course of the ESA site reconnaissance and based on interviews with individuals knowledgeable about the historical use of the site, a cattle dipping vat was identified on the site and called out as a Recognized Environmental Condition (REC). This led to Phase II ESA investigative work.

PRIME RESPONDENT:
Terracon Consultants, Inc.

CLIENT:
Confidential

DATE:
Start: June 2020
End: August 2020

FEE:
$18,000

HIGHLIGHTS:
Phase I ESA
13,000-acre site

The Phase I ESA was conducted on time and within budget, meeting client expectations. This was facilitated through strong communication with the client and land manager, which allowed for a safe and thorough field review of the site. The desktop evaluation of the historical and current uses of the site and surrounding properties was carefully reviewed ensuring no current or legacy concerns were missed. The client was extremely satisfied with the level of engagement of Terracon staff and the prompt and efficient dedication to providing a report within an aggressive timeframe.

30,000-acre Blue Head Ranch Limited Site Investigation Southwest Highlands County, Florida

The site is a 30,000-acre ranch property located in Southwest Highlands County, Florida. A Phase I ESA completed of the site identified three recognized environmental conditions (RECs) in connection with the ranch support area including:

- REC #1 - Fuel oil underground storage tank (UST)
- REC #2 – A rubbish/dump/burn pile possibly used for burning of agrichemical containers
- REC #3 – A farm maintenance area with fuel and agrichemical storage

To assess for potential impacts associated with the identified RECs, Terracon completed a Limited Site Investigation (LSI) for the ranch support area as part of the Client's pre-purchase due diligence process.

Analytical results generated for the samples collected during the performance of Terracon's LSI did not identify elevated concentrations of tested constituents in samples collected from areas associated with REC #1 and #3 However, analytical results of groundwater samples collected from the debris/burn pile area associated with REC #2 reported arsenic concentrations in excess of the cleanup target level (CTL) specified in Chapter 62-777, Florida Administrative Code (FAC). Arsenic concentrations were reported in excess of the leachability CTL specified in Chapter 62-777, FAC in soil samples collected beneath the debris/burn pile. The presence of elevated arsenic analytical results from the leachability analyses, in conjunction with elevated arsenic concentrations in groundwater analytical results, suggests that arsenic has leached, and has the potential to continue leaching, from the shallow soils located beneath the debris/burn pile into the groundwater.

Based on analytical data obtained during the performance of the LSI and observations of the debris/burn area at that time, leachable arsenic concentrations appear to be associated with soils within the 0 to 2-foot below ground surface (bgs) interval underneath the debris/burn pile. The footprint of the debris pile is estimated to be approximately 70 feet in diameter. Terracon subsequently conducted interim source removal to address arsenic affected soils including excavation and transportation of over 350 tons of arsenic impacted soils to a Class I Landfill. Confirmatory sampling and analysis performed after the excavation and prior to backfilling confirmed that the arsenic impacted soil identified during the LSI was adequately removed. The client elected to leave groundwater in-place and naturally attenuate since the site would continue to be used as a ranch in the foreseeable future.

PRIME RESPONDENT:
Terracon Consultants, Inc.

CLIENT:
Blue Head Land & Cattle Co. LLC

DATE:
09/14 – 03/15

FEE:
$48,000 (estimated)

HIGHLIGHTS:
Phase I ESA
30,000-acre site

16,900± Acres of Agricultural Farmland at Three Properties St. Lucie, Indian River, and Okeechobee Counties, FL

Terracon conducted Phase I ESAs in accordance with ASTM E1527-13 at three properties encompassing approximately 16,900 acres (8,747, 616.48, and 7,500 acres) located in St. Lucie, Indian River and Okeechobee Counties. The Phase I ESAs were conducted in association with a property transaction with assumed ongoing agricultural usage. Site inspections were conducted by two Terracon environmental scientists by traversing the site on foot and with vehicles to inspect operational and open areas to evaluate site conditions.

Historical usage was reviewed through interviews and reviews of USGS topographic maps, city directories, and aerial photographs. Uses of the sites included historical and current citrus production, cattle ranching which maintained former cattle dipping vats, former airfields, vehicle maintenance, chemical mixing areas, former plant nurseries, irrigation systems including aboveground storage tanks (ASTs) for diesel fuel, former underground storage tanks (USTs) for diesel fuel and gasoline, and stormwater water retention areas. Based on the findings of the Phase I ESAs, the following recognized environmental conditions (RECs) were identified in association with the site:

- historical usage of the sites as agricultural land for greater than 60+ years, from approximately the 1950s through present day
- observed release of hydrocarbons from diesel motors associated with the onsite irrigation system
- historical use of USTs/ASTs (some of which were unregulated) with no assessments conducted
- use of agrichemicals associated with historical/existing citrus production and plant nurseries
- petroleum hydrocarbon staining within the vehicle maintenance areas
- observed pesticide/herbicide mixing areas
- observed dumping areas

Recommendations were made for additional investigation to evaluate soil and groundwater quality in areas associated with the RECs and to properly dispose of drums and discarded materials at the site which may contain, or have contained, oils and fuels. Terracon advised that if future consideration included land use changes, the potential presence of agrichemicals in the subsurface may be of concern.

PRIME RESPONDENT:
Terracon Consultants, Inc.

CLIENT:
Met Life Real Estate Investors

DATE:
03/15 – 04/15

FEE:
$11,000

HIGHLIGHTS:
Phase I ESA
16,900-acre site

2,025 ± Acres of Agricultural Farmland
Myakka City, Manatee County, Florida

Terracon conducted a Phase I environmental site Assessment (ESA) and Limited Site Investigation (LSI) on an approximate 2,025-acre tract of land located at 43175 State Road 70 (SR 70) East (aka Highway 70) in Myakka City, Manatee County, Florida. The site was developed with agricultural land utilized for a tomato, cucumber, pepper, and sod farm. The site was improved with five well pump houses with associated diesel fuel and "ferticide" aboveground storage tanks (ASTs), an equipment repair/storage structure, two grain/fertilizer silos, and an in-ground irrigation drip line system. Since the site operated agriculturally for a relatively short time (approximately 15 years) in the late 1950s to 1960s and again from 2002 to present, evidence of spills, releases, or mismanagement of agrichemicals was not apparent at the site, the historic and current agricultural was not considered a recognized environmental condition (REC). However, Terracon identified the adjoining Curtis Rd. Land Co. LLC UST/LUST facility as a REC because undefined petroleum contaminated groundwater was reported at this facility and the direction of shallow groundwater flow was reported toward the site.

To evaluate for groundwater impacts at the site, three shallow direct-push groundwater samples were collected from the site. The laboratory results indicated trace concentrations of fluoranthene and pyrene in the groundwater samples which were below their respective Groundwater Cleanup Target Level as specified in Chapter 62-777, Florida Administrative Code (FAC). Terracon concluded that in the absence of other identified potential sources of petroleum contaminated groundwater at the site, the trace concentrations of petroleum compounds detected in the groundwater may be due to migration from the historical off-site release at the Curtis Rd. Land Co. LLC UST/LUST facility. The responsible party for the off-site release had been identified, the facility is eligible for state-funded cleanup under the Early Detection Incentive (EDI) Program, and site assessment activities are ongoing. Based on the findings of the LSI, and given the current status of the adjoining Curtis Rd. Land Co. LLC UST/LUST facility, additional groundwater assessment at the site was not warranted at the time of the LSI.

PRIME RESPONDENT:
Terracon Consultants, Inc.

CLIENT:
Hancock Agricultural Investment Group

DATE:
03/15 – 05/2015

FEE:
$7,610

HIGHLIGHTS:
Phase I ESA
2,025-acre site

c) Experience using Global Positioning System (GPS) and mapping in Universal Transverse Mercator (UTM) coordinate system utilizing the North American Datum of 1983 (NAD83) based upon the High Accuracy Reference Networks (HARN) surveys with units in meters

High-Accuracy Field Data Collection and Mapping

Terracon utilizes industry-leading technology and has the necessary experience to collect, manage, analyze, and communicate spatial data in support of our projects. Our field staff are equipped with mobile devices running ArcGIS Collector and custom feature services we have developed specific to environmental sampling in various media including air, soil, sediment, and water. For high-accuracy (sub-meter) data collection requirements we use a high-accuracy GNSS receiver with Bluetooth connectivity to the mobile device for field data collection. Terracon has the experience and resources to deliver dynamic web applications in combination with traditional map deliverables to help project stakeholders explore and derive meaning from their data. Our expert GIS staff will meet all project requirements, including format, spatial reference, and metadata documentation for all GIS project data. It is our understanding that the District requires all spatial data and map products to use NAD83 HARN UTM zone 17N, consistent with other data on the St Johns River Water Management Open Data portal.

Environmental Data Management

Terracon will manage all site characterization data using an Environmental Database Management System (EDBMS). Samples collected for laboratory analysis will imported to our EDBMS directly from Laboratory Electronic Data Deliverables. Other site data collected in the field such as field monitoring parameters and gauging data will also be imported to the EDBMS. Sample locations will be incorporated in the EDBMS to facilitate active query, export and mapping of sample results. Use of the EDBMS will facilitate Quality Assurance/Quality Control, data review, and query/export of data products including regulatory exceedance tables and data posting map products.

d) Experience performing environmental sampling in accordance with FDEP Standard Operating Procedures (SOPs)

Terracon's personnel have extensive experience with environmental sampling as well as the assessment, evaluation, and remediation of impacted soil, sediment, and groundwater at facilities located throughout Florida. Successful projects have addressed the following regulated substances:

- petroleum hydrocarbons;
- oil and grease;
- chlorinated solvents;
- PCBs;
- metals – arsenic, chromium/chromates, lead, zinc, barium;
- pesticides/herbicides; and
- dioxins.

All sampling efforts are conducted in accordance with the FDEP SOPs detailed by the FDEP in Chapter 62-160 FAC and all samples are analyzed by an environmental laboratory that is FDEP, FDOH approved, and NELAC compliant.

e) Equipment List

Terracon owns over $3 million worth of equipment used to provide environmental, geotechnical and materials testing services throughout Florida. Terracon owns a wide array of environmental equipment housed in the offices that will be responding to this contract. This equipment includes organic vapor analyzers, photoionization detectors, interface probes, water level indicators, groundwater sampling pumps, multi-function YSI and turbidity meters, combustible gas indicators, pilot test blowers, and pilot test gauges. With Terracon, the equipment resources needed to execute the projects are always conveniently located in our primary offices that will be conducting the field work. Equipment is calibrated as required by the manufacturer and the FDEP SOPs.

Calibration logs are maintained for all field equipment requiring calibration. In addition, Terracon has rental agreements with three Florida-based equipment rental companies which can provide virtually any type and quantity of equipment to Terracon within 24 hours or less. Also, Terracon's subcontractors also have a full list of equipment that is directly applicable to servicing this contract. The table below lists some of the commonly used equipment.

Equipment Items	
Honda 0.5 HP Centrifugal Pump	ISCO Peristaltic (Teflon Tubing)
HACH 2100P Turbidity Meter	Submersible Turbine Pumps
YSI 556 Multimeter (pH, Temperature, DO, Conductivity, ORP) with Flow cell	Geotech II Peristaltic pumps
Van Doreen Surface Water Sampler	Surface Water pole sampler
Heath PortaFID OVA	Low Volume Pump
Field Filtration Units	Polyethylene Protective Sheeting
Stainless Steel Trowel, Scoop, Spoon and Spatula (for Sampling)	YSI 63 Multiparameter Meter pH, Conductivity, Temperature, Salinity
Stainless Steel Mixing Pans (for Compositing or Homogenizing)	(4) Heath OVA-Porta FID-DP-III & 100 ppm Methane Calibration Gas
EnCore Samplers (5g)	Moisture Meter
EnCore Samplers (25g)	Cole Parmer Environmental Peristaltic Pumps
Stainless Steel Bucket Augers	Masterflex L/S Sampling Pump
Stainless Steel Split Spoons	Honda fuel powered 5,000W generators
Stainless Steel Shelby Tubes	Heath OVA Detecto Pack III 0 – 10,000 ppm
HACH Sension 156 Multiparameter Meter, pH, Conductivity, Temperature, D.O. Millivolts	Cole Palmer pH Buffer & Conductivity Solutions (for Meter Calibration)
Heron Instruments Water Level Indicator	Garmin 12XL Global Positioning system with Beacon Receiver
YSI 55 and 550A DO Meters	Survey Level with Tripod & Rod
Teflon Bailers	High Volume Air Pumps for Asbestos
Solinist Stainless Steel Bailer and Monofilament Line	In-Situ Level Trolls
Rotameters	Hach Fields Wet Chemistry Kits
1 Biopump for Mold	Moisture Meters
Air-0-Cell cassettes	High & Low Volume Pumps

Tab 1 Firm's and subcontractors' capabilities to conduct work

Equipment Items	
PCM Microscopes	Bio Pumps
Infrared Cameras	HEPA Vacuums
TSI Q-traks	PCM and TEM Cassettes
First Aid Kit	Vehicles (4x4 pick-ups, flatbed, etc.)
Digital Cameras	Decontamination Equipment (Alconox Soap, DI Water and Liquinox)
PPE Kit (hard hat, Z87 glasses, vest, gloves, and hearing protection)	Nitrile Gloves
Generator	Analyte-Free Glass Water container (for transporting organic-free water)
Field laptop computers	Fisher Scientific Isopropanol (for cleaning)
Boats for sampling	Munsell Soil Charts
ESRI ArcGIS ArcInfo 9.2	ESRI ArcGIS ArcView 9.2
ESRI Spatial Analyst	ESRI ArcPad
Visual ModFlow Pro and Surfer v8	Trimble, Leica, Thales, Total Station, and Juniper Systems GPS
Trimble Pathfinder Office & TerraSync	Manifold
Petite Ponar Dredge for collecting sediment samples	3 Solinst Dual-phase Liquid Level
Laser SurveyTransit for top-of-casing elevations	Stream flow velocity meter
16-foot boat with 85hp Suzuki motor and trailer	14 Aluminum John Boat
Canoes and Kayaks	Leica microscope and stereoscope for taxonomic identification
Horizontal BETA Bottle (Acrylic) for subsurface water	Kemmerer Bottle (Plastic) for subsurface water sampling
Secchi Disk for measuring transparency	D-framed Dip Net for collecting macroinvertebrates

In addition to the fleet of drill rigs our drilling subcontractors can provide, Terracon has one of the largest and most diverse fleets of drilling equipment in Florida. Terracon also has a total of 73 drill rigs companywide (see Florida drill rigs in table below), as well as a variety of drilling support equipment such as 4 motorized boats, a 10-foot paddle boat, 1013 4-wheel crew trucks, and 81 tractor-trailer trucks for drill rig mobilization.

- (936) Hogentogler Truck Mount CPT
  Vertek Track Mounted CPT
- (946) Dietrich D-50 Truck Mount
- (12N) Dietrich D-50 ATV Ardco
- (943) Dietrich D-50 Track Mount
- (796) Dietrich D-50 Remote Track
- (838) CME 550X ATV Rubber Tire
- (898) BR-2500 Mini Rig Auto Hammer
- (16N) BR-2500 Mini Rig
- (15N) CME-45B Truck Mount
- (765) Geo Probe 7822 DPT
- 13N CME-55 Truck Mount
- 10N DR12 Mudbug ATV
- 17N BR-2500 Mini Rig
- Two CME-45B Truck Mount

Tab 2

Qualifications, Work Histories, and Abilities of Repondent's and Subcontractors' Proposed Key Personnel

Terracon

Tab 2 – Qualifications, work histories, and abilities of proposed key personnel

a) Organization profile and proposed project management.

Prime Consultant: Terracon's staff of local engineers, environmental professionals, technicians and field staff has all the registrations, certifications, technical expertise and equipment to provide exceptional services to this project. Our staffing plan consists of an experienced local team that is led by **Mark Mulligan, P.G., Contract Manager** and **Robert Penoyer, P.E., Senior Project Manager**. The resources of our local, Florida, and national personnel make us uniquely qualified to provide the SJRWMD with the environmental consulting services necessary for this contract. We offer the project management skills, technical expertise, relevant project experience, manpower and equipment resources necessary to provide the SJRWMD with the most responsive and highest quality Environmental Consulting Services available. Mr. Mulligan will serve as Contract Manager for this contract. **As a project manager on numerous projects throughout the District, Mark Mulligan is committed to be the primary point of contact on this contract for any service needed by the SJRWMD.** Mr. Mulligan has a B.A. Geology with over 27 years of experience in hydrogeology, environmental consulting and remediation. Mr. Mulligan is very experienced in managing these types of contracts as he currently serves in a similar capacity for Volusia County, the City of Altamonte Springs, City of Cocoa, Greater Orlando Aviation Authority, as well as Volusia/Orange/Seminole/Brevard County Public Schools.

Mark Mulligan, P.G., Contract Manager, 1675 Lee Road, Winter Park, FL 32789, (407) 740-6110; Mark.Mulligan@terracon.com, cell (407) 951-2375.

Robert Penoyer, P.E. will serve as Senior Project Manager for this contract. Mr. Penoyer has over 30 years of experience facilitating, training, and managing hazardous and non-hazardous regulatory waste projects and programs for governmental and private clients. His core competencies includes Program and Project Development, Regulatory Coordination / Compliance, Policy/Procedure Development, Root Cause Analysis, Quality Management, Health and Safety (H/S) and Site Safety Planning, Regulatory Operation and Environmental Compliance Evaluations/Inspections, Waste Characterization/Profiling, Waste Material Handling and Transportation, Health and Safety, Regulatory Permitting, and Environmental Site. Robert previously owned his own company from 2001 to 2013, REP Engineering Solutions, Inc./Gasoline Quipment Systems, Inc. which was located in Cocoa, Florida. Among various environmental consulting services, REP installed petroleum storage systems and conducted assessments and remedial actions related to petroleum releases. Mr. Penoyer has extensive knowledge related to environmental consulting, remediation, petroleum storage tanks and systems.

Robert Penoyer, P.E., Senior Project Manager, 1675 Lee Road, Winter Park, FL 32789, (321) 347-3208; Robert.Penoyer@terracon.com, cell (321) 403-3729.

Our **Environmental Consulting** team has participated in numerous Environmental Assessments, Testing and Remediation and other related environmental work lead by **Mark Mulligan, P.G.** Terracon has a powerhouse of expert resources at your disposal who has performed thousands of environmental assessments, including NEPA evaluations, site characterization, and groundwater and soil sampling and testing. Terracon local staff can provide environmental consulting services for projects throughout throughout the District's 18 counties in northeast and east-central Florida, such as Phase I/II/III/IV Environmental Assessment; Remediation planning, implementation, monitoring and reporting; Environmental contamination sampling and analysis; Petroleum storage tank site closure; Brownfield guidance; Environmental project feasibility studies, Wetland delineations, Threatened & Endangered Species surveys (including Gopher Turtle surveys and relocations) and Miscellaneous environmental projects as needed.

Tab 2 – Qualifications, work histories, and abilities of proposed key personnel

b) Specific names and functions of personnel

Terracon's Environmental Group will provide the complete scope of services / projects with in-house local staff. Our Key staff has worked on projects on many governmental/municipal contracts throughout Florida. Summarized in the table below is our team qualifications and experience.

Professional Environmental Personnel			
Name/Functions	**Exp.**	**Education**	**Work Location**
Mark Mulligan, P.G. Client Manager	27	B.A. Geology	1675 Lee Road Winter Park, FL 32789
Robert E. Penoyer, P.E. Senior Project Engineer	30	BS, ENV Engineering	1675 Lee Road Winter Park, FL 32789
John Malkowski, P.E. Remediation Engineer	22	BS, ENV Engineering	1675 Lee Road Winter Park, FL 32789
Donna Cline, P.E. Remediation Engineer	25	BA, Physics; MS Mechanical	5463 W. Waters Ave., Ste 830 Tampa, Florida 33634
David Beerbower, P.G. QA/QC Manager/Senior Geologist	41	MS, Geology	1675 Lee Road Winter Park, FL 32789
Lydia Wing Senior Project Manager	26	B.Sc. Geology B.Sc. Engineering Geology	1675 Lee Road Winter Park, FL 32789
John O'Reilly Senior Project Scientist	29	BA Environmental Studies	1675 Lee Road Winter Park, FL 32789
Igor Karimov Project Scientist	14	BS, Mining / ENV Engineering	1675 Lee Road Winter Park, FL 32789
Laura Sebastian Sr. Staff Scientist	14	BS, Marine Biology	1675 Lee Road Winter Park, FL 32789
Brian Brandon Sr. Staff Scientist	6	BS, Biology	1675 Lee Road Winter Park, FL 32789
Jason Sartorio Staff Scientist	4	BS, Biology	1675 Lee Road Winter Park, FL 32789
Steven A. Harrison, P.G. Senior Geologist	32	MS, Marine Geology and Geophysics,	5371 NW 33 Avenue, Ste 201 Fort Lauderdale, FL 33309
Lucas Barroso-Giachetti, P.E., CHMM Senior Environmental Engineer	19	BS, ENV Engineering	16200 NW 59th Ave, Ste. 106 Miami Lakes, FL 33014
Terrence R. Horan, P.E. Senior Environmental Engineer	27	BS, ENV Engineering	1225 Omar Road West Palm Beach, FL 33405
Kyle E. Hayes Project Scientist	14	Environmental Science	7220 Financial Way Suite 100 Jacksonville, FL 32256
Wayne Misenar, E.P. Environmental Professional	30	Asbestos and Microscopy Certification	7220 Financial Way, Suite 100 Jacksonville, Florida 32256
Gary K. Howalt, PWS Professional Wetland Scientist,	41	BS, Biology	7220 Financial Way, Suite 100 Jacksonville, Florida 32256

Tab 2 – Qualifications, work histories, and abilities of proposed key personnel

With more than 600 environmental in-house staff across the U.S., our Florida Division environmental team is comprised of:

License/FL Division Env Team	No. of Personnel
Florida licensed Asbestos Consultants	2
Florida licensed Environmental Engineers	5
Florida licensed Geologists	10
Environmental Scientists	35
Certified Industrial Hygienists	1
Registered Professional Industrial Hygienist	2
ACAC certified Indoor Environmental Consultants	7
Institute of Hazardous Materials Management certified Hazardous Materials	2
USEPA certified Lead-based Paint Inspectors / Risk Assessors	4 / 2
USEPA certified Lead Supervisor	2
Florida licensed Mold Assessors	11
Asbestos Hazard Environmental Response Act (AHERA) certified Inspectors	30
AHERA certified Management Planners	12
AHERA certified Project Designers	6
AHERA certified Contractor / Supervisors	18
NIOSH 582E trained staff	19
Certified Florida Stormwater, Erosion, and Sediment Control Inspectors	11
Radon Measurement Specialist	2
Radon Measurement Technician	3
Other Environmental Staff (Ecological)	9
Archaeologist	7
Biologists	11
Geographic Information Systems Specialists	2

Tab 2 – Qualifications, work histories, and abilities of proposed key personnel

SUBCONSULTANTS

DRILLPRO, LLC D.B.A Groundwater Protection
Professional Staff: Todd Hodgson, Vice President/Partner has 27 years of experience and has supervised multiple crew members and Project Managers of 25+ associates. Managed a $6.5m+ portfolio of professional Environmental and Engineering accounts and led all forecasting, market analytics and proposal preparation and sales /development programs.

EMSL Analytical
Professional staff: Our qualified staff includes degreed (Ph.D. and M.Sc.) microbiologists, mycologists, and bacteriologists. Our bench analysts and/or technicians have a minimum of a B.S. degree and must complete a rigorous training program before reporting results independently.

Grove Scientific & Engineering Company (GSE)
Professional staff: James E. Golden, P.G., Vice President, Principal Hydrogeologist - James (Jim) Golden serves as a Principal Hydrogeologist and Senior Project Manager for Grove. He has over 30 years of experience in all aspects of groundwater resources planning, analysis, contamination assessment and remediation, and solid waste facility design, permitting and monitoring. Mr. Golden has managed many large successful corporate environmental, mining, and solid waste projects throughout the State of Florida, southeastern United States, and Caribbean.

Sara Greivell, President, Principal Environmental Scientist and Project Manager- As an environmental scientist and project manager for Grove, Mrs. Greivell's main focus is air pollution source permitting and consulting. She works to obtain Title V, non-Title V, and Air General Permits for clients.

JAEE Environmental Services, Inc.
Professional staff: Willie Smitherman, has 29 years as a Certified Environmental Specialist --(Environmental Assessment Association) and Certified Environmental Inspector--(Environmental Assessment Association). Mr Smitherman provides onsite analyses of volatile organic compounds using a portable gas chromatograph to delineate contamination plumes and remedial system startups. Site assessments and investigations (Phase I and II's). Mr. Smitherman is qualified as a State of Florida Water Well Contractor.

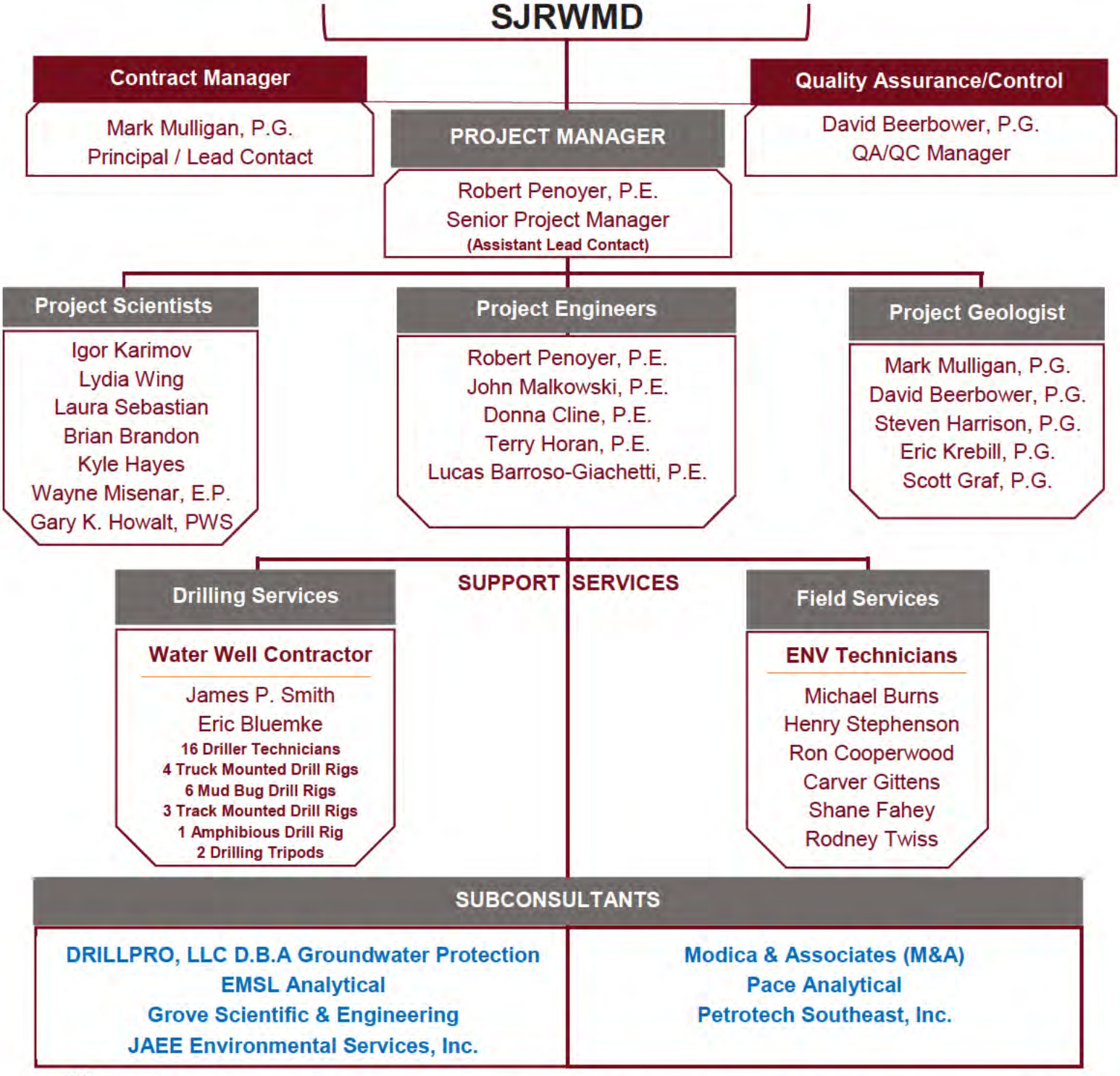
Modica & Associates (M&A)
Professional staff: Darla Miller, Senior Scientist has over 30 years of experience in ecological assessments, environmental consulting and permitting. One of her most notable large-scale plans included the Vision Plan for Taylor County, which established a comprehensive environmental, economic, and planning tool for over 300,000 acres.

Pace Analytical
Professional staff: Bob Dempsey, General Manager has been a lab manager in the environmental industry since 2003. Mr. Dempsey is responsible for the direction and coordination of the daily activities for 90+ staff scientists, administrative personnel and service technicians at the company's Florida operations. He is responsible for maintaining project management oversight and direction in conjunction with corporate sales directives and goals, and he provides guidance and direction to the laboratory's Quality Assurance staff in conjunction with corporate goals, EPA guidelines, NELAC guidelines, and various other state and federal guidelines.

Petrotech Southeast, Inc.
Professional staff: Mike Patterson, Project Manager has 27 years experience and has provided tank cleaning & removal, excavation, remediation system installation, lined pond cleaning and transportation and disposal services.

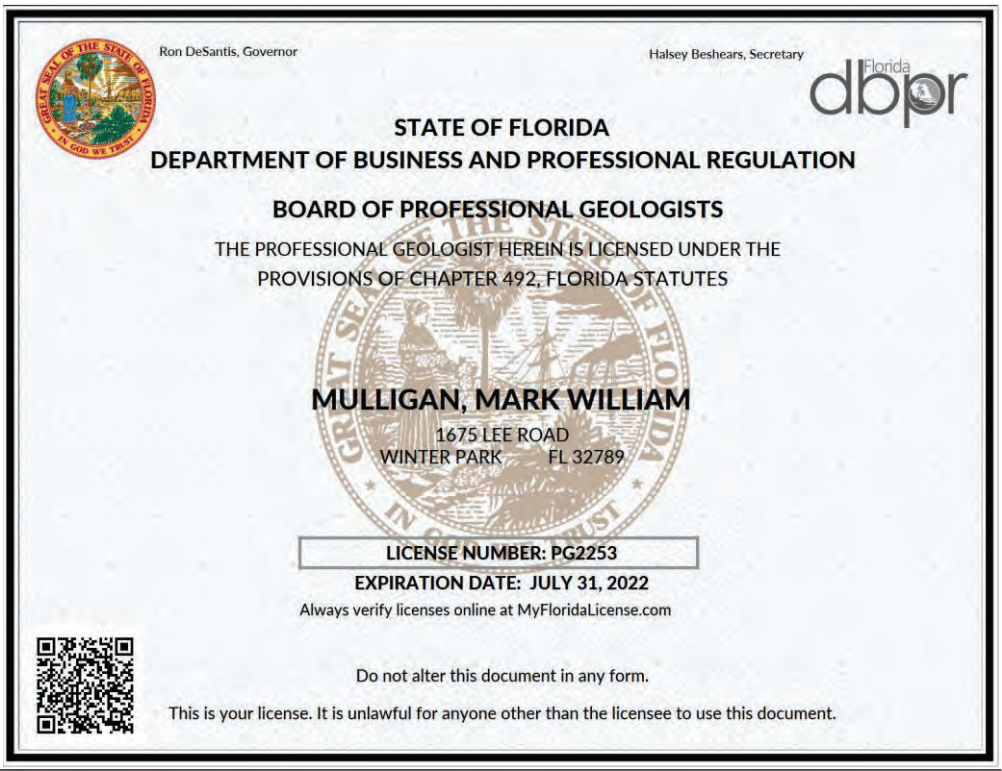
Tab 2 – Qualifications, work histories, and abilities of proposed key personnel

Organizational Chart - The Terracon team offers the project management skills, technical expertise, relevant project experience, manpower, and equipment resources to serve as a solid foundation for this contract. Our Central Florida Operations with support from our Jacksonville, Tampa and South Florida Offices, offers the resources in terms of local experience and qualified personnel, who will provide the management and technical capabilities needed to execute this work.



Tab 2 – Qualifications, work histories, and abilities of proposed key personnel

c) Evidence of current professional status of personnel (licensing, certifications, etc.) including Professional Engineer (PE) and Professional Geologist (PG), and a licensed PE with experience preparing remedial action plans and certifying remedial action reports. Professional Engineers seeking to provide services shall be certified under Section 287.055, Fla. Stat., to practice or to offer to practice engineering



Ron DeSantis, Governor

Halsey Beshears, Secretary

Florida dbpr

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

MULLIGAN, MARK WILLIAM
1675 LEE ROAD
WINTER PARK FL 32789

LICENSE NUMBER: PG2253
EXPIRATION DATE: JULY 31, 2022
Always verify licenses online at MyFloridaLicense.com

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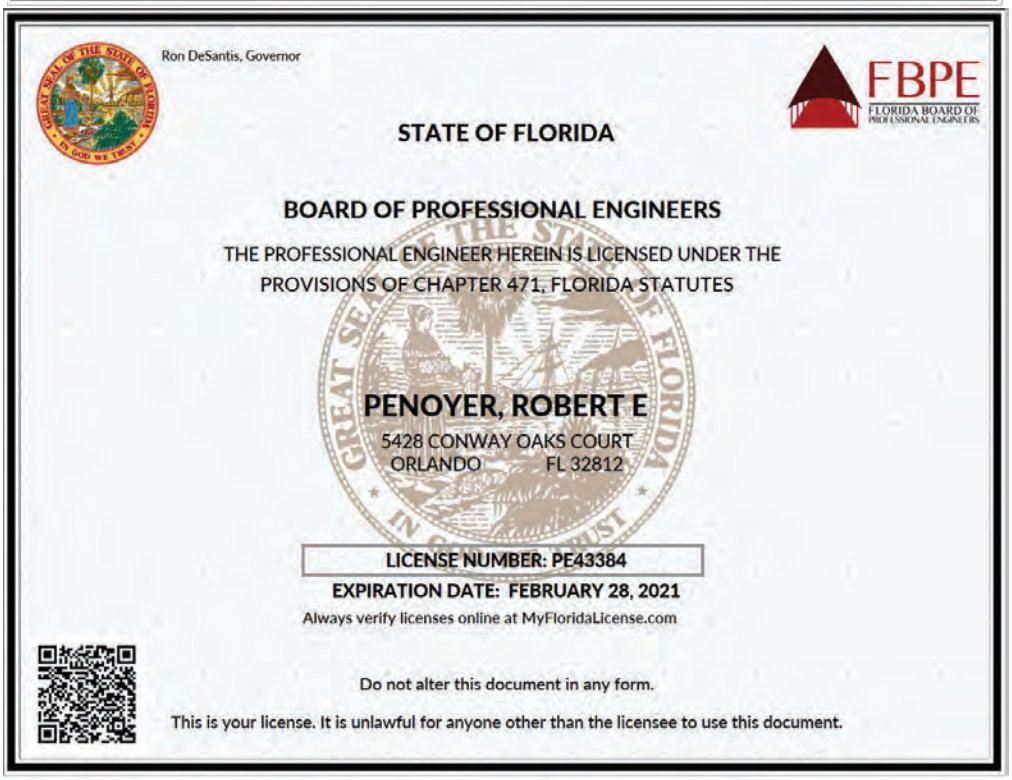

Ron DeSantis, Governor

FBPE
FLORIDA BOARD OF PROFESSIONAL ENGINEERS

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

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

PENOYER, ROBERT E
5428 CONWAY OAKS COURT
ORLANDO FL 32812

LICENSE NUMBER: PE43384
EXPIRATION DATE: FEBRUARY 28, 2021
Always verify licenses online at MyFloridaLicense.com

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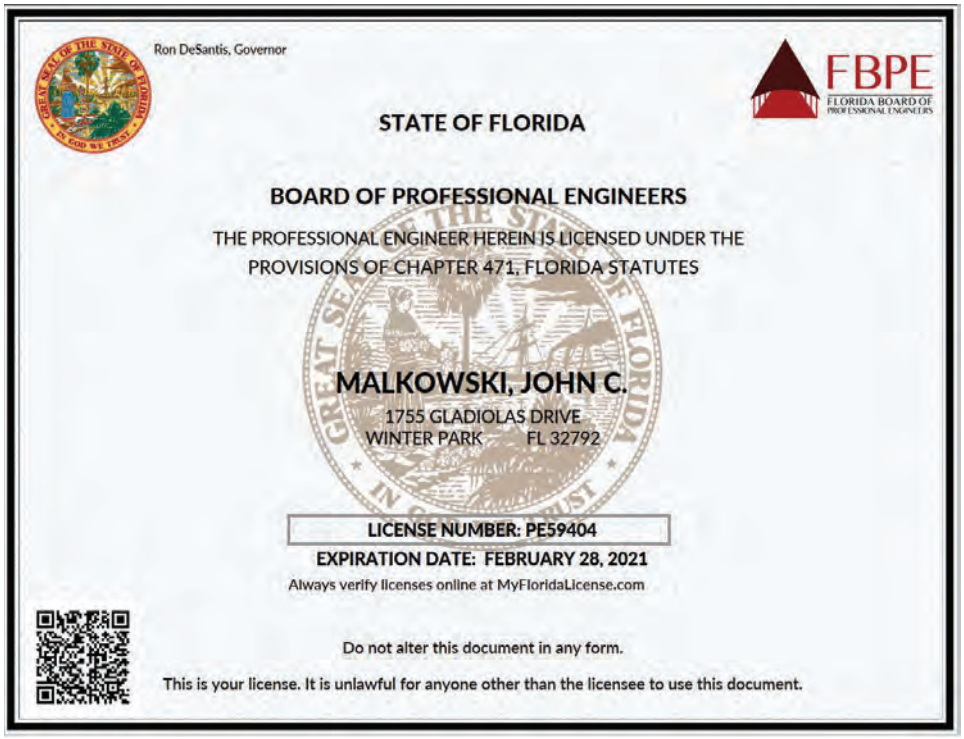
Tab 2 – Qualifications, work histories, and abilities of proposed key personnel

Evidence of current professional status of personnel (licensing, certifications, etc.) including Professional Engineer (PE) and Professional Geologist (PG), and a **licensed PE with experience preparing remedial action plans and certifying remedial action reports.** Professional Engineers seeking to provide services shall be certified under Section 287.055, Fla. Stat., to practice or to offer to practice engineering



Ron DeSantis, Governor

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STATE OF FLORIDA

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MALKOWSKI, JOHN C.

1755 GLADIOLAS DRIVE
WINTER PARK FL 32792

LICENSE NUMBER: PE59404

EXPIRATION DATE: FEBRUARY 28, 2021

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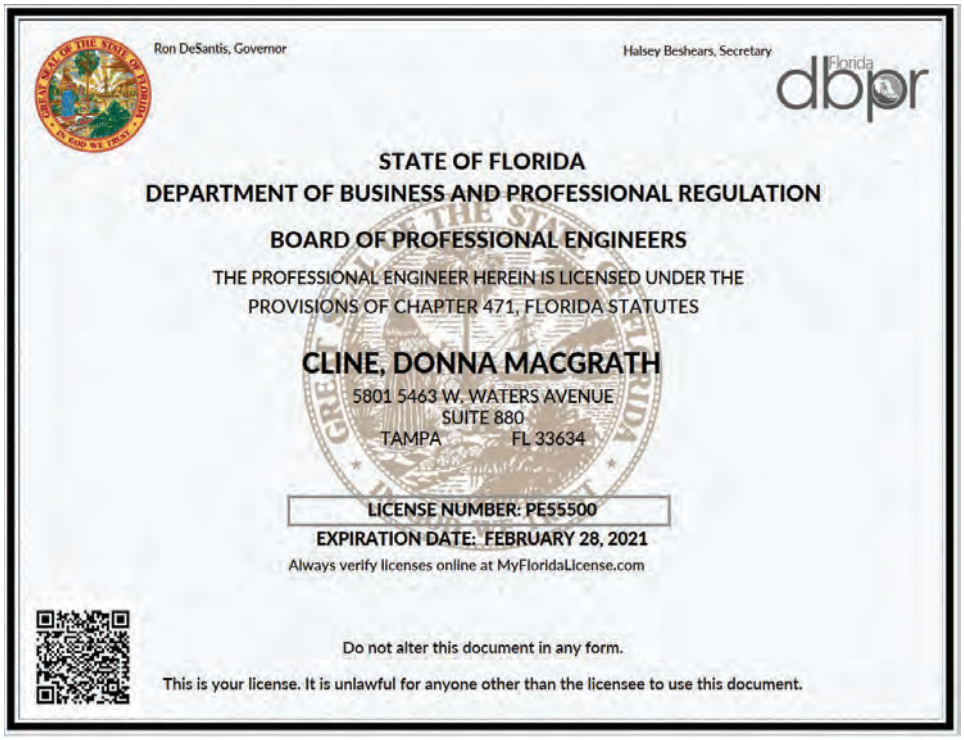

Ron DeSantis, Governor

Halsey Beshears, Secretary

Florida dbpr

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DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

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CLINE, DONNA MACGRATH

5801 5463 W. WATERS AVENUE
SUITE 880
TAMPA FL 33634

LICENSE NUMBER: PE55500

EXPIRATION DATE: FEBRUARY 28, 2021

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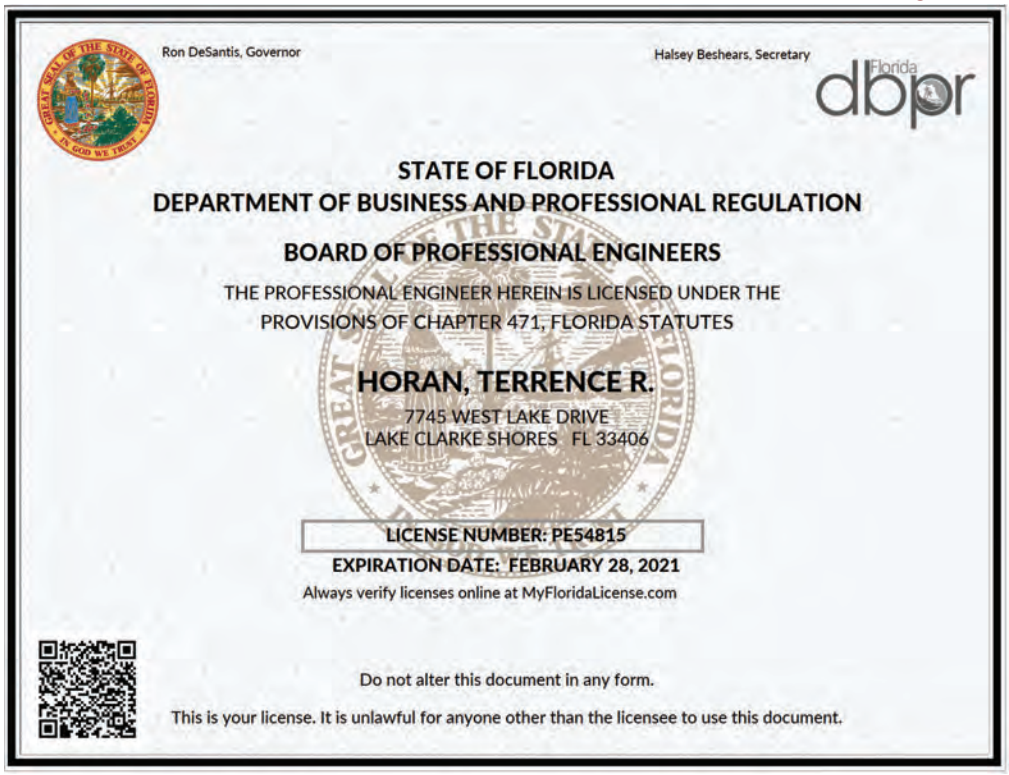

Ron DeSantis, Governor

Halsey Beshears, Secretary

Florida dbpr

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DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

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HORAN, TERRENCE R.
7745 WEST LAKE DRIVE
LAKE CLARKE SHORES FL 33406

LICENSE NUMBER: PE54815
EXPIRATION DATE: FEBRUARY 28, 2021
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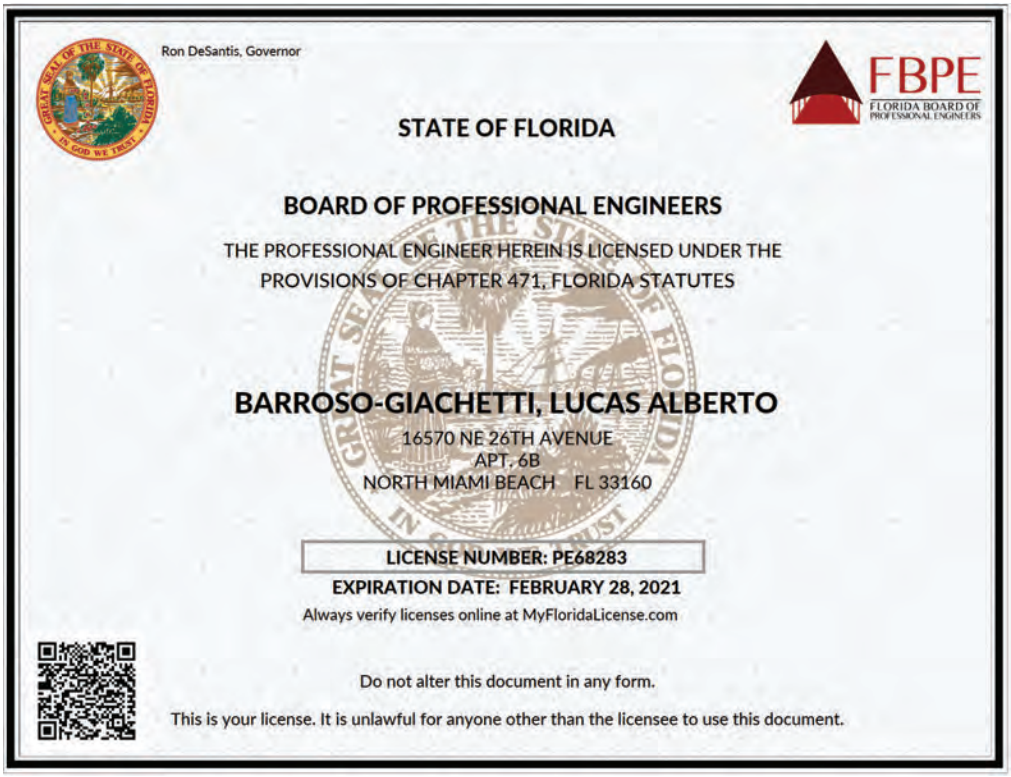

Ron DeSantis, Governor

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BARROSO-GIACHETTI, LUCAS ALBERTO
16570 NE 26TH AVENUE
APT. 6B
NORTH MIAMI BEACH FL 33160

LICENSE NUMBER: PE68283
EXPIRATION DATE: FEBRUARY 28, 2021
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Tab 2 – Qualifications, work histories, and abilities of proposed key personnel

d) Background, education, and experience in environmental site assessments and sampling techniques. Experience in sampling of surface water, groundwater, soil, and sediment, installation of temporary and permanent wells in accordance with FDEP SOPs.

Our team has an extensive background and experience in conducting site assessments and performing sampling in accordance with FDEP SOPs. The table below outlines the qualifications of our personnel.

Team Member Name	Education	Site Assessment	Sampling Techniques	FDEP SOP Knowledge
Terracon Consultants, Inc.				
Mark Mulligan, P.G. Client Manager	B.A. Geology	✓	✓	✓
Robert E. Penoyer, P.E. Senior Project Engineer	BS, ENV Engineering	✓	✓	✓
John Malkowski, P.E. Remediation Engineer	BS, ENV Engineering	✓	✓	✓
Donna Cline, P.E. Remediation Engineer	BA, Physics; MS Mechanical	✓	✓	✓
David Beerbower, P.G. QA/QC Manager/Senior Geologist	MS, Geology	✓	✓	✓
Lydia Wing, Senior Project Manager	B.Sc. Geology B.Sc. Engineering Geology	✓	✓	✓
John O'Reilly Senior Project Scientist	BA Environmental Studies	✓	✓	✓
Igor Karimov Project Scientist	BS, Mining / ENV Engineering	✓	✓	✓
Laura Sebastian Sr. Staff Scientist	BS, Marine Biology	✓	✓	✓
Brian Brandon Sr. Staff Scientist	BS, Biology	✓	✓	✓
Jason Sartorio Staff Scientist	BS, Biology	✓	✓	✓
Steven A. Harrison, P.G. Senior Geologist	MS, Marine Geology and Geophysics,	✓	✓	✓
Lucas Barroso-Giachetti, P.E., CHMM Senior Environmental Engineer	BS, ENV Engineering	✓	✓	✓
Terrence R. Horan, P.E. Senior Environmental Engineer	BS, ENV Engineering	✓	✓	✓
Kyle E. Hayes Project Scientist	Environmental Science	✓	✓	✓
Wayne Misenar, E.P. Environmental Professional	Asbestos and Microscopy Certification	✓	✓	✓
Gary K. Howalt, PWS Professional Wetland Scientist	BS, Biology	✓	✓	✓

Tab 2 – Qualifications, work histories, and abilities of proposed key personnel

e) Qualifications as an environmental professional as specified in EPA's All Appropriate Inquiry Rule

The Terracon Team offers the most talented group of environmental professionals in Florida to this SJRWMD contract. Our environmental professionals possess a very wide and diversified experience base. Most have worked for both the regulatory and consulting industry, are extremely knowledgeable about regulations, and respected by the regulators. You can be confident that our team can carry out any project that may arise during the life of the contract. The importance of completing proper due diligence efforts is so significant that Terracon's due diligence efforts will be led by a team of well-seasoned Environmental Professionals, as defined by ASTME1527-13, with at least 10 years of direct, industry experience to provide the District the utmost confidence that critical information will not be overlooked. The following table displays a list of our team members who are qualified environmental professionals.

Team Member Name	Years of Experience	Environmental Professional
Mark Mulligan, P.G., Client Manager	27	✓
Robert E. Penoyer, P.E., Senior Project Engineer	30	✓
John Malkowski, P.E., Remediation Engineer	22	✓
Donna Cline, P.E., Remediation Engineer	25	✓
David Beerbower, P.G., QA/QC Manager/Senior Geologist	41	✓
Lydia Wing, Senior Project Manager	26	✓
John O'Reilly, Senior Project Scientist	29	✓
Igor Karimov, Project Scientist	14	✓
Laura Sebastian, Sr. Staff Scientist	14	✓
Steven A. Harrison, P.G., Senior Geologist	32	✓
Lucas Barroso-Giachetti, P.E., CHMM, Senior Environmental Engineer	19	✓
Terrence R. Horan, P.E., Senior Environmental Engineer	27	✓
Kyle E. Hayes, Project Scientist	14	✓
Wayne Misenar, E.P., Environmental Professional	30	✓
Gary K. Howalt, PWS, Professional Wetland Scientist	41	✓

Terracon has been active in ASTM's development of the ESA standards for years. Terracon personnel are on the ASTM Task Group for both E1527 and E2247. Terracon played an active role in the latest revision to E2247-16. The ASTM Task Group was considering tailoring it to only forestland properties and excluding any properties that had development on them which does not serve a client, such as the District, which acquires large tracts with some development on them. It was Terracon's input that turned this decision around and made the standard usable for other large-area ESAs. The "areas of environmental interest" was a concept that we helped generate for this version of the standard. This allowed for focused site inspections, even on properties that have industrial uses.

Tab 2 – Qualifications, work histories, and abilities of proposed key personnel

f) Availability of proposed key personnel to work on this contract

Terracon's Winter Park office has a large volume of active projects (approx. 590 current geotechnical, construction materials testing, environmental and facilities engineering projects) with short life cycles. Our work-in-progress averages $6.0M. Given our current office workload, we have 30% to 40% available key staff capacity for this contract. Our history of servicing the City projects suggests that the current and projected workload allows for ample available staff capacity to meet the anticipated man-hour requirements for this contract. With an 11-office network in Florida, there are also substantial state-wide resources available, if occasionally necessary, for temporary (short-term), peak demands of this contract. The current availability of the Contract Manager and other key staff is listed in the table below:

Staff Member	Role	% of Availability
Mark Mulligan, P.G.	**Contract Manager / Project Geologist**	**60%**
Robert Penoyer, P.E.	Senior Project Manager	50%
John Malkowski, P.E.	Senior Remediation Engineer	40%
Donna Cline, P.E.	Senior Remediation Engineer	40%
David Beerbower, P.G.	QA/QC Manager	40%
Lydia Wing	Senior Project Manager	40%
John O'Reilly	Senior Project Scientist	40%
Igor Karimov	Project Scientist	40%
Laura Sebastian	Sr. Staff Scientist	40%
Brian Brandon	Sr. Staff Scientist	40%
Jason Sartorio	Staff Scientist	40%
Steven A. Harrison, P.G.	Senior Geologist	40%
Lucas Barroso-Giachetti, P.E., CHMM	Senior Environmental Engineer	40%
Terrence R. Horan, P.E.	Senior Environmental Engineer	40%
Kyle E. Hayes	Project Scientist	40%
Wayne Misenar, E.P.	Environmental Professional	40%
Gary K. Howalt, PWS	Professional Wetland Scientist	40%

As Contract Manager, Mr. Mulligan's current availability to SJRWMD staff and projects amounts to 18 to 24 hours per week and is available to meet with SJRWMD staff and/or visit project sites as needed. The current availability and ready accessibility of our contract manger is expected to remain consistent for at least the initial period of the contract. In the occasional absence of Mr. Mulligan, Robert Penoyer, P.E. is capable of carrying out the contract manager role. Mr. Mulligan is familiar with SJRWMD needs and projects. **The Terracon Team is committed to dedicating the necessary time to any assigned task.**

Terracon's Workload Capacity: Terracon's staff and resources provide maximum flexibility to meet our clients' scheduling needs. The nature of our work requires us to typically provide services on an expedited basis. Our typical backlog is made up of many short duration assignments and therefore, our workload varies on a weekly basis. Furthermore, long-term contracts are of indefinite quantity making workload dependent upon individual work orders, and difficult to predict. The Terracon Team workload capacity is sufficiently large to enable us to respond successfully to emergency situations and quick turnaround projects. Based on our prior experience, we believe our present and future workload capacity is more than adequate to conduct the required services for the contract in a prompt (timely), efficient manner.

g) Communication skills and accessibility by E-mail

Our approach to completing the scope of services included in this RFQ is based on a successful approach that we have applied in other governmental/municipal contracts throughout the State of Florida. The primary key of our project approach is the assignment of a single point-of-contact who will be a reliable advocate for the SJRWMD. Staff assigned to the project will support the Project Manager (PM) in the execution of the required scope of services. Our PM will oversee all of the assignments and will be supported by the field and technical staff whose experience level is commensurate with the work assignment. **Communication is the key to a successful project!** Based on our extensive experience with numerous municipal and school district continuing contracts throughout the State, we recognize that working with these types of public agencies and projects often requires a different approach and a greater level of communication than with private sector projects. It is imperative to coordinate the work with the SJRWMD's Project Manager to ensure safety and a successful project. Prior to starting any major task, we provide the SJRWMD staff with the names of staff that will be involved, all contact information including cell phone and email addresses, that allows the project team the most efficient way to contact us day to day.

Terracon's approach for each proposed project will begin with communication between the SJRWMD Project Manager and Mark Mulligan, P.G., Terracon's point of contact for contract issues. David Beerbower, P.G will be serving in a technical advisor role to support Terracon's project managers on each project related to contract management, technical guidance and quality assurance and quality control. A review of construction documents and other property data, if readily available, as well as a site walk may be performed as part of the proposal process. Once the SJRWMD representative and Terracon have a mutual understanding of the project scope and time-frame requirements, a proposal will be submitted in a timely manner for approval and issuance of a Purchase Order. Terracon understands that for some projects, such as emergencies, the SJRWMD direction to proceed may be issued verbally with follow up written authorization issued within a reasonable amount of time. Upon project authorization, either Mark Mulligan, P.G., David Beerbower, P.G. or Robert Penoyer, P.E. will be designated as the Authorized Project Reviewer (APR) and will discuss the project with our PM and assigned staff member(s) to ensure that the SJRWMD's needs will be met, and the appropriate scope of work is followed. The APR, PM, and assigned staff will do pre-task planning at critical junctures and go over potential safety considerations for the field work and overall project approach including schedule and deliverables. The Terracon APR will be available continually throughout the project to answer questions, provide guidance, and perform review of technical data and quality of deliverables.

Task Order Management and Communication - The key to delivering successful services rests with the quality of the communications between the client and the project team. Terracon will assign a highly-experienced PM, with oversight by a senior technical advisor (APR), to provide the direct line of communication to your team. Our PM will receive task order requests and assign the appropriate project team based on the technical requirements and geographic location. The PM will be responsible for overall performance, administration, billing, project review and will serve as your main point-of-contact. We will be fully responsible for meeting requirements, expectations and schedules, project quality, report writing and submittals, and communicating resource needs. There will be frequent communication between our PM and your staff as we believe good communication is the most important aspect of a successful relationship. Our PM will call or meet with the SJRWMD to check on our progress and performance. We will provide draft meeting notes and will conduct a closeout review for every task order completed, to make sure that the task's objectives have been satisfactorily achieved.

h) GPS and GIS skills

Terracon uses the most advanced Geographic Information Service (GIS) software applications and database management tools in the industry to help us effectively manage, analyze, and visualize site data in support of projects nationwide. We leverage the ESRI ArcGIS platform to provide a wide range of project solutions from traditional map documents to custom web applications. Our staff are versed in a variety of programming tools and languages including Python, C#, JavaScript, VB.NET, ArcGIS Server, ArcObjects, and XML to deliver customized project solutions, and execute complex database development and integration tasks. We also utilize 3D modeling applications including ESRI ArcScene/ArcGlobe and Ctech MVS for complex sites requiring advanced data analysis and visualization. Regardless of the project scope, we strive to deliver intuitive products that help us communicate project data to our clients and other project stakeholders.

Terracon is experienced with site set-up with the use of federal certified Global Positioning System (GPS) equipment and ESRI GIS or vendor, i.e. Trimble or Arrow, software. We utilize hand held mobile mapping GPS units with sub-meter accuracy in the field to document sampling locations, which assist in providing more accurate mapping for reports, as well as enabling identification of sampling locations in the future after site conditions may have changed. Terracon has developed an efficient field service strategy utilizing technologies developed by ESRI to collect and analyze data real-time. The use of mobile apps, smart maps and dashboards allow users in the field and office to work together making quick, informed decisions and monitor changes using the same authoritative data. As technologies evolve, we incorporate and deploy the latest hardware and software solutions to ensure workflows remain viable.

Terracon has developed in-house software programs that enable our field personnel to conduct Phase I ESAs and asbestos, as well as document safety protocols sampling using proprietary phone applications. Additionally, Terracon has an in-house database system called GIS Toolbox, which allows users to view and search for project-related data in a GIS system similar to Google Earth. In addition, users can add or update project locations and site boundaries. Aerial photos, topographic maps, and other geospatial data is available for research. The tool also allows users to create sketches for project communications and deliverables. Additionally, the Terracon environmental staff is very experienced accessing the FDEP database resources, such as OCULUS and Map Direct, to obtain regulatory information regarding contamination impacts to sites of concern.

i) Provide resumes that specifically outline the qualifications and work histories of key personnel

Tab 2 – Qualifications, work histories, and abilities of proposed key personnel

Mark W. Mulligan, P.G.
CLIENT MANAGER

EDUCATION
B.A. Geology, University of Florida, Gainesville, Florida 1993

YEARS OF EXPERIENCE
Years with Terracon: 13
Years with other Firms: 13

REGISTRATIONS
Registered Professional Geologist, Florida #2253 (2002)

CERTIFICATIONS
FDOT Advanced Maintenance of Traffic

Certified Florida Stormwater, Erosion and Sediment Control Inspector

OSHA 40-Hour Hazardous Waste Operations and Emergency Response (HAZWOPER) Training

PROFESSIONAL EXPERIENCE
Mr. Mulligan has 26 years of experience in hydrogeology, environmental consulting, contamination assessment/remediation, client, contract, project and personnel management.

PROJECT EXPERIENCE
Volusia County Schools Environmental Contract, Florida
Authorized Project Reviewer for the Environmental and Asbestos Management Services contract. Scope of services includes Asbestos Management Services, Asbestos Management Planning, Asbestos Training Services, Underground Storage tank /site clean-up and other environmental services for projects throughout the school district.

Seminole County Public Schools (SCPS)
Client/Contract Manager responsible for environmental services to SCPS since 2008, includes Phase I and II ESAs, contamination assessments, remedial action plans and implementations, asbestos, IAQ, natural resources (wetland delineation/mitigation, threatened & endangered species).

Greater Orlando Airport Authority (GOAA), Orlando, Florida
Client/Project Manager and Technical Reviewer for projects related to the continuing environmental services contract for GOAA (which includes the Orlando International Airport and the Orlando Executive Airport). Services provided for this contract range from Phase I and II environmental site assessments, complete site assessments and remedial actions, landfill monitoring, indoor/outdoor air quality (such as mold issues), asbestos consulting, and compliance audits at facilities on GOAA properties.

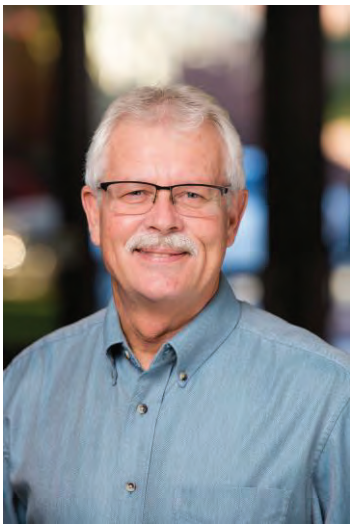
City of Cocoa EPA Brownfield Cooperative Agreement BF-00D33015
Client/Project Manager for current EPA Brownfield Assessment Grant. Since being selected in October 2015, assisted in completing the Quality Assurance Program Plan (QAPP) and have completed numerous ESA reports.

City of Altamonte Springs
Client/Contract Manager for this environmental consulting and remediation services contract on an as needed basis for the support of all phases of City business with an emphasis on the identification, management, and remediation of contaminated and/or hazardous materials and substances.

Canaveral Port Authority, Environmental Property Management Engineering Support Services Cape Canaveral, Brevard County, Florida
Client/Contract Manager for Environmental Property Management at Canaveral Port Authority (CPA).

Tab 2 – Qualifications, work histories, and abilities of proposed key personnel

Robert E. Penoyer, P.E.
SENIOR ENVIRONMENTAL ENGINEER



EDUCATION
B.S., Environmental Engineering, University of Central Florida, Orlando, FL

REGISTRATIONS
Registered Professional Engineer, State of Florida, FL PE License No: 43384

CERTIFICATIONS
OSHA 40-Hour OSHA HAZWOPER, Yearly 8-Hour HAZWOPER Refresher, and 10-Hour Construction Training and Certificates per Code of Federal Regulation 29 CFR 1910.120

Design Training of Compress Natural Gas Fueling Systems Certification

* experience prior to Terracon

PROFESSIONAL EXPERIENCE
Mr. Penoyer has over 30 years of experience and has served as subject-matter-expert (SME) on the Department of Environmental Protection (FDEP) Petroleum Restoration Program (PRP), Resource Conservation and Recovery Act (RCRA), NPDES, industrial waste discharge (IWD) permitting, and transportation/disposal (T&D) for statewide voluntary, state cleanup, and regulatory compliance drive petroleum and hazardous waste projects.

PROJECT EXPERIENCE
FDEP Petroleum Restoration Program - Sunoco Maguire
Senior Project Engineer to provide environmental services for the Sunoco project - A discharge associated the vehicle fueling station petroleum storage and distribution system. Scope of work includes a site assessment of the residual petroleum contamination, conduct a pilot test for remedial alternative and submit a Remedial Action Plan (RAP) for utilizing in-situ air-sparging (AS) and multi-phase extraction (MPE) technology. The RAP implementation is underway and includes the installation of 22 multi-phase extraction wells, 8 air sparge well, 700 linear feet of piping, and remediation compound, startup and operation and maintenance (O&M).

Orlando Public Library, Orlando, Orange County, Florida
Senior Project Manager to provide services to locate and estimate the size of the existing UST and product lines, identify underground utilities locates that may affect UST removal activities, perform pre-removal soil field screening and sampling services to determine potential petroleum impacted soils, and perform UST closure assessment services.

Former Wendy's Restaurant, Jacksonville Beach, Florida
Senior Project manager to continue providing operation, O&M activities associated with the air sparge and soil vapor extraction (AS/SVE) petroleum remediation system.

Union 76 Station, Lake Wales, Florida
Senior Project Engineer to provide environmental services for this site. Services conducted on this project site will include the following Soil/Groundwater Sampling, Soil Borings and Monitoring Well Installation, and preparation of a RAP Addendum

AutoNation Orlando – SWPPP, Orlando, Florida
Senior Project Engineer to assist with construction storm water compliance services including preparation of a SWPPP, coordinate compliance efforts with the contractor and operator, perform storm water field construction compliance inspections of every 7 calendar days and following a rainfall event of greater than 0.5 inches during a 24-hour period and maintain copies of inspection reports for on-site regulatory review.

Tab 2 – Qualifications, work histories, and abilities of proposed key personnel

John Malkowski, P.E., C.B.C.

SENIOR PROJECT ENVIRONMENTAL ENGINEER

PROFESSIONAL EXPERIENCE

Mr. Malkowski has over 20 years of experience in remediation and environmental consulting. His experience includes site assessments, contamination verification assessments, remediation, landfill operations and maintenance, solid waste permitting, water resource permitting, cause and origin investigations, structural inspections, and environmental consulting, and expert witness testimony for litigation. He is familiar with the following remediation technologies: air sparging, soil vapor extraction, multi-phase extraction, bio sparging, bioaugmentation, enhanced bio sparging (PHOSter technology), chemical oxidation, ozone injection, and natural attenuation.

PROJECT EXPERIENCE

Volusia County, Florida

Senior Environmental Engineer to provide hydrogeological and environmental consulting services including Phase I and II Environmental Site Assessments, Asbestos Surveys, Contamination Assessment and Clean-up of sites under a Consent Order, Contamination Assessment and Clean-up of non-petroleum contaminated sites, Contamination Assessment and Clean-up of petroleum contaminated sites, Under-ground and Above-ground Storage Tank Closures, Remedial Action Plan Development and Implementation, Remedial System Operation and Maintenance, and Stormwater Pollution Prevention Program & Spill Prevention Control and Countermeasure Plans. Mr. Malkowski has been the project manager for the Beck Ranch project that has included assessment, remediation and groundwater monitoring.

Greater Orlando Airport Authority (GOAA), Orlando, Florida

Project Manager and Engineer for projects related to the continuing environmental services contract for GOAA (which includes the Orlando International Airport and the Orlando Executive Airport). Services provided for this contract range from Phase I and II environmental site assessments, complete site assessments and remedial actions, landfill monitoring, indoor/outdoor air quality (such as mold issues), asbestos consulting, and compliance audits at facilities on GOAA properties. These facilities include areas previously operated as the Orlando Army Air Base and McCoy Air Force Base, and as such there are many unknown environmental issues requiring forensic studies to determine sources of contamination.

Orange County Public Schools (OCPS)

Senior Professional Engineer responsible for environmental services to OCPS. Phase I and Phase II ESA's, contamination assessment and remedial action activities have all been performed for OCPS. Additional projects have included site assessments, and natural attenuation monitoring at various schools within the county.

EDUCATION

B.S., Environmental Engineering, University of Central Florida, 1996

REGISTRATIONS

Registered Professional Engineer, Florida #59404 Registered Professional Engineer, Arkansas #13805

Certified Building Contractor, Florida #CBC1254803

CERTIFICATIONS

OSHA 40 hour HAZWOPER

OSHA 10 hour Construction

First Aid/CPR

Defensive Driving Training

Tab 2 – Qualifications, work histories, and abilities of proposed key personnel

Donna Cline, P.E.

SENIOR ENVIRONMENTAL ENGINEER

PROFESSIONAL EXPERIENCE

As an engineer for more than 25 years, Ms. Cline has extensive experience in environmental management, site investigation, remedial engineering design, and environmental regulation. She has evaluated, designed and implemented in-situ soil and groundwater remedial technologies to include air sparging, bio sparging, soil vapor extraction (SVE), chemical oxidation, dual phase extraction (DPE), non-aqueous phase liquid (NAPL) recovery, and innovative in-situ technologies such as lactate, soybean oil, and zero valent iron (ZVI) injection, and oxygen infusion. **In addition, while employed by the St. Johns River Water Management District, she served in an environmental compliance and regulatory position from 1993 to 1998.** Ms. Cline is an effective technical writer for remedial action plans (RAP) for environmental cleanups, remedial alternative studies, and construction implementation plans for remediation systems for hazardous waste, non-hazardous waste, pesticide, petroleum, and chlorinated solvent sites pursuant to the Resource Conservation and Recovery Act (RCRA), Comprehensive Environmental Recovery and Liabilities Act (CERCLA) and various State programs.

PROJECT EXPERIENCE

JEA Westside Service Center Site Investigation/Closure, Jacksonville, FL

Senior Environmental Engineer to provide Supplemental Site Investigation and Closure report addressing the complete the delineation of the PCB contaminated asphalt and soil to the residential direct exposure soil cleanup target levels (SCTL) for Site Assessment and Conditional Closure approval, and to respond to JEA's stormwater improvement activities in the area where the former remedial activities occurred.

JEA PCB Reporting, Jacksonville, FL

Senior Environmental Engineer to provide Hybrid Self Implementing Source Removal Construction Completion (SRCC) Report addressing the excavation, off-site disposal of hazardous asphalt and soil, and restoration activities at the referenced site.

Block 48 – Proposed JEA Office Building - Jacksonville, Florida

Lead engineer for a chlorinated solvent remediation and post active remediation monitoring (PARM) project for the City of Jacksonville Block 48 site, which is the future site of the new JEA Office Building downtown.

EDUCATION

BA, Physics, Florida State University, 1988

MS, Mechanical Engineering, Florida International University, 1992

REGISTRATIONS

Licensed Professional Engineer, #55500 Florida

Licensed Professional Engineer, #29997 Georgia

CERTIFICATIONS

OSHA 40-Hour Hazardous Waste Operations and Emergency Response

OSHA 8-Hour Supervisory Training

AFFILIATIONS

Society of American Military Engineer, Chair of Scholarships and Camps

Florida Brownfield Association

Tampa Bay Association of Environmental Professionals

Florida Engineering Society

Tab 2 – Qualifications, work histories, and abilities of proposed key personnel

David Beerbower, P.G.

QA/QC MANAGER / PROJECT GEOLOGIST

EDUCATION
MS, Geology
Ball State University 1977
BA, Natural Systems

REGISTRATIONS
Professional Geologist
Florida, No. PG828, 1989
Water Well Contractor
Florida No. 7370, 2010

AFFILIATIONS
Florida Bar Association, Environmental and Land Use Section

Florida Healthcare Engineering Association

YEARS OF EXPERIENCE
Years with Terracon: 13
Years with other Firms: 28

PROFESSIONAL EXPERIENCE

Mr. Beerbower has 41 years of experience including 16 years with Terracon providing environmental consulting services and is responsible for services on projects addressing due diligence, property condition, hazardous waste treatment, pesticides, petroleum, arsenic, lead-paint, asbestos, indoor air, radon measurement and floodplain management. Mr. Beerbower is knowledgeable of contamination assessment, remedial design and implementation, monitoring, health and safety, indoor air quality monitoring including asbestos and radon testing, and environmental compliance. He has assisted governmental, industrial, commercial, land development and financial clients to evaluate real estate for environmental liability or degradation due to soil, sediment and groundwater impacts by hydrocarbons, solvents, pesticides, metals and hazardous wastes. He has permitted RCRA Corrective Actions and associated soil management, industrial wastewater management, stormwater management and dewatering plans. He also has provided expert opinions and conducted forensic investigations in civil actions.

PROJECT EXPERIENCE

Canaveral Port Authority, Cape Canaveral, Florida
Client Manager to provide support professional engineering services for Environmental Property Management at Canaveral Port Authority (CPA). The Scope of Work required by the CPA on a continuing basis encompasses a variety of tasks. These tasks included, but was not limited to: Assessment, design and permitting of hydraulic systems related to potable water use reduction and expansion of reclaimed water use; Review and assessment of CPA and related tenant systems.

Seminole County Environmental Services Continuing Contract, Florida
Senior Project Manager responsible for environmental services to Seminole County. Phase I and Phase II ESA's, contamination assessment and remedial action activities have all been performed.

Volusia County Environmental Services Continuing Contract, Florida
Senior Project Manager to provide hydrogeological and environmental consulting services on a continuing contract basis.

Seminole County Public Schools (SCPS)
Project Geologist to provide environmental services to SCPS since 2008, includes Phase I and II ESAs, contamination assessments, remedial action plans and implementations, asbestos, IAQ, natural resources (wetland delineation/mitigation, threatened & endangered species).

Lake County Public Schools – Lake County, Florida
Client Manager for Asbestos Consultant services for various school related projects within Lake County.

Tab 2 – Qualifications, work histories, and abilities of proposed key personnel

Steven A. Harrison, P.G.
SENIOR GEOLOGIST

PROFESSIONAL EXPERIENCE
Steven is a Senior Associate and Department Manager in the South Florida Region that specializes in providing responsive, cost effective, technically accurate and regulatory focused solutions to meet client's project and operational requirements. He has more than 30 years of successful experience continuously exceeding expectations by resolving environmental situations that clients face. Steven's diverse environmental experience includes the assessment and remediation of impacted groundwater and soil, real estate transactional due diligence assessment, storage tank system management, industrial and Resource Conservation and Recovery Act (RCRA) waste disposal, wildlife surveys and compliance assistance with federal and State environmental regulations (Spill Prevention, Control, and Countermeasure [SPCC] Plans).

PROJECT EXPERIENCE
South Florida Water Management District (SFWMD) Homestead Field Station – Homestead, FL

Authorized Project Reviewer (APR)/Quality Reviewer. Field station buildings B-33, B-96 and B-233 reached the end of their useful life and were scheduled to be razed and replaced with a single larger building and associated paved parking areas and driveway. Terracon conduct a limited environmental review of the site to assess for the presence of potential environmental conditions which could impact planned improvements for the field station. The scope of work included review of: historical aerial photographs and other historical sources to evaluate past use of the site to identify potential environmental concerns; client provided information; federal, state, and tribal environmental databases consistent with search radii as provided in ASTM E1527-13; and environmental regulatory records for select facilities as available through local environmental agencies. Terracon conducted reconnaissance of the site and adjoining/vicinity properties for identification of environmental concerns and interviewed the field station manager to obtain information regarding past and present site use, operations and potential environmental concerns. A brief letter report summarizing the historical and regulatory records review and site reconnaissance was prepared. The letter included an opinion regarding the presence of potential environmental concerns which could impact proposed site improvements.

EDUCATION
MS, Marine Geology and Geophysics, Emphasis: Geo-Chemistry, Rosenstiel School of Marine and Atmospheric Sciences, University of Miami, 1988

BS, Geology
State University of New York
Binghamton, 1980 – 1984

REGISTRATIONS
Professional Geologist
Florida, No. 0001390

Florida Licensed Mold Assessor, No. MRSA508

Florida Licensed Sales Associate SL3069031 (Realtor –Florida)

CERTIFICATIONS
8- Hr Hazmat Health and Safety Training Updates (Current)

40- Hr Hazmat Health and Safety Training (1989)

Short Course: Assessing Environmental Risk in Property Transactions (1990)

Short Course: How to Comply with Florida's Haz Waste Regulations for Generators

YEARS OF EXPERIENCE
Years with Terracon: 7
Years with other Firms: 25

Tab 2 – Qualifications, work histories, and abilities of proposed key personnel

Lucas A. Barroso-Giachetti, P.E., CHMM
SENIOR ENVIRONMENTAL ENGINEER

EDUCATION
Bachelor of Science, Environmental Engineering, University of Florida, 2002

REGISTRATIONS
Professional Engineer: Florida, No. 68283

CERTIFICATIONS
Certified Hazardous Materials Manager, No. 13849

40-hour HAZWOPER

OSHA Site Supervisor Trained

YEARS OF EXPERIENCE
Years with Terracon: 2.5
Years with other Firms:16.5

PROFESSIONAL EXPERIENCE

Lucas is a Senior Environmental Engineer in the Miami Lakes office of Terracon's South Florida region and leads the firm's Miami environmental services operations. A State of Florida licensed Professional Engineer and Certified Hazardous Materials Manager, Lucas has over 19 years of experience in remediation and environmental consulting services. Lucas has worked directly with the Florida Department of Environmental Protection (FDEP) on many complex environmental projects throughout the State of Florida and managed a South Region contract for the Department's Petroleum Restoration Program (PRP). In addition, he has extensive experience with local regulatory authorities in Miami-Dade County, including Division of Environmental Resources Management (DERM).

PROJECT EXPERIENCE

Florida Keys Mosquito Control District Soil and Groundwater Assessment - Monroe County, FL
Lucas served as the Project Manager for a comprehensive site assessment performed by Terracon for the FDEP at the former Florida Keys Mosquito Control District property in Key West located at 5224 College Road. The site is undergoing redevelopment for residential housing. As part of the City's construction project, focused soil assessment was completed by Terracon during May 2019 to provide excavation limits to the City to proceed with a cost-effective source removal of the impacted soils as part of the site redevelopment plans.

Hialeah Park Race Track - Hialeah, FL
Project Manager. Terracon has provided consulting and redevelopment services to the Hialeah Park Race Track since 2016. We have assisted the client with services including regulatory interface and support for No Further Action with Conditions (NFAC) closure planning with the Miami-Dade County Department of Regulatory and Economic Resources (RER), DERM, periodic groundwater sampling, geotechnical evaluations, lake restoration permitting, engineering control inspections and construction management.

Miami Dade College Academy of Fire Science, - Miami, FL
Technical lead and Project Manager for the assessment of a firefighter training area that historically utilized Aqueous Fire Fighting Foam (AFFF) during training exercises that contained per- and polyfluoroalkyl substances (PFAS). Terracon was retained by Miami Dade College to assess potential impacts to soil and groundwater from PFAS, including development of a PFAS-focused sampling plan including special and rigorous practices and procedures to prevent cross-contamination during sampling from common everyday items such as water-resistant clothing, sunscreen and others.

Tab 2 – Qualifications, work histories, and abilities of proposed key personnel

Terrence R. Horan, P.E.

SENIOR ENVIRONMENTAL ENGINEER

EDUCATION
Bachelor of Science, Environmental Engineering, University of Florida, 1992

REGISTRATIONS
Professional Engineer: Florida, No. 54815 (1999)

CERTIFICATIONS
OSHA 40-hour Hazardous Waste Operations & Emergency Response (HAZWOPER)

AFFILIATIONS
Florida Engineering Society (FES), Member

FES Palm Beach County Appointed Board Member:

- Department of Health: Environmental Quality Hearing Board (2014-currently Chair)
- Department of Planning, Zoning and Building: Contractor Licensing Board (2016-2021)

YEARS OF EXPERIENCE
Years with Terracon: 1.5
Years with other Firms:25.5

PROFESSIONAL EXPERIENCE

Terry is an Environmental Department Manager for Terracon Consultants, Inc. and its West Palm Beach office. He also serves as a senior environmental engineer for the South Florida Region and throughout Terracon. Since earning a Bachelor of Science degree in environmental engineering, he has specialized in the practice of environmental consulting progressing from staff level to managerial level responsibilities. A registered professional engineer in the State of Florida, Terry has more than 25 years of progressive experience in due diligence, environmental assessments, remediation, and water resources. He has led multi-disciplinary teams focused on providing solutions to environmental and engineering issues for a wide range of regulated industries. Terry's expertise includes the successful management of site assessments, remedial investigations, feasibility studies, and remediation projects for private sector, municipal, state, and federal agency clients. On a day-to-day basis, Terry provides technical oversight and direction to environmental engineers, geologists, scientists and technical staff performing services for asbestos/lead-based paint, Brownfields, industrial hygiene, regulatory compliance, remediation, site assessments and investigations, natural and cultural resources, and solid waste.

PROJECT EXPERIENCE

South Florida Water Management District (SFWMD) Homestead Field Station – Homestead, FL

Authorized Project Reviewer (APR)/Quality Reviewer. Field station buildings B-33, B-96 and B-233 reached the end of their useful life and were scheduled to be razed and replaced with a single larger building and associated paved parking areas and driveway. Terracon conduct a limited environmental review of the site in 2017 to assess for the presence of potential environmental conditions which could impact planned improvements for the field station. The SFWMD requested that Terracon conduct an updated limited environmental review of the site. The objective of the environmental review was to develop an understanding if environmental conditions exist at the site or nearby properties which could impact planned construction activities to be undertaken at the field station. Site and vicinity reconnaissance, including an interview with the field station manager, were conducted to identify potential environmental concerns. Environmental databases were reviewed consistent with ASTM E1527-13 search distances using a third-party environmental database supplier. Conclusions and recommendations based on Terracon's review were provided in a report for the SFWMD.

Tab 2 – Qualifications, work histories, and abilities of proposed key personnel

Kyle E. Hayes
ENVIRONMENTAL PROJECT SCIENTIST

PROFESSIONAL EXPERIENCE

Kyle is the Environmental Services Department Manager in Terracon's Jacksonville, Florida office. Kyle has 14 years of experience as an environmental consultant/environmental scientist and manager with proven technical, management and communication skills. His experience includes the facilitation and management of multidisciplinary environmental projects relating to industrial processing, petroleum, mining, landfills, wetlands, governmental entities, waste streams, etc. Mr. Hayes has participated and managed hundreds of Phase I and II ESAs as well as petroleum, metals, and chlorinated solvents assessment projects throughout his career. Many of these projects have been overseen by the Florida Department of Environmental Projection (FDEP) through the Petroleum Restoration Program (PRP) and various state and federal funded programs such as EPA funded Brownfield grants. Mr. Hayes has also managed many high profile long term privately funded projects, which include state Brownfields program cleanup sites and facilitated large-tract private mining reclamation and due-diligence projects.

PROJECT EXPERIENCE

City of Jacksonville, Brownfields Services, Assessment Grants
Working with the COJ on a current grant and facilitated their prior grant, which includes the development, coordination, and management of assessment projects and enthusiastically engaging local community and brownfields stakeholders through community outreach. Manage Phase I and II Environmental Site Assessments including scope and site-specific quality assurance plan development.

City of Ocala, Brownfields Services, Assessment Grant
Current Project Manager under City assessment grant. Work closely with City to ensure projects are facilitated on schedule and meet expectations / goals. Actively engaging local community and brownfields stakeholders through community outreach events. Assisted in developing brownfields site inventory and priority ranking system to aid in selection of properties for assessment. Providing project management of Phase I and II Environmental Site Assessments including scope and site-specific quality assurance plan development. Ensure ACRES reporting and analysis of brownfield cleanup alternatives are completed.

Florida School for the Deaf and the Blind – Saint Augustine, Florida
Facilitating ongoing monitoring of a chlorinated solvent groundwater plume. Developed and implemented in-situ bioremediation through injection of dehalococcoides (DHC) microbial bacteria to speed up the anaerobic process of reductive dechlorination breakdown of PCE and TCE to ethane. This strategy was adopted to ultimately safe the client long term monitoring expenses.

Wayne Misenar, E.P.

EDUCATION
Environmental Science, Eckerd College, Saint Petersburg, FL

REGISTRATIONS
Registered Qualified Stormwater Management Inspector

CERTIFICATIONS
40-Hour HAZWOPER

OSHA Hazardous Waste Operations and Emergency Response

AFFILIATIONS
Secretary – First Coast Chapter Alliance of Hazardous Materials Professionals

Florida Association of Environmental Professionals

Florida Healthcare Engineering Association

Trustee – Jax Chamber

ADDITIONAL TRAINING
8 hour - Florida Wetland Delineation, Tampa Bay Association of Environmental Professionals, 2007;
38 hour - Army Corp of Engineers Wetland Delineation and Management, Richard Chinn Environmental Training Inc., 2007

YEARS OF EXPERIENCE
Years with Terracon: 5
Years with other Firms: 9

Tab 2 – Qualifications, work histories, and abilities of proposed key personnel

Lydia Wing
SENIOR PROJECT MANAGER

PROFESSIONAL EXPERIENCE

Ms. Wing is a Senior Geologist and Project Manager with 26 years of experience in environmental consulting with an applied knowledge of regulatory requirements, and a broad exposure to a diverse client base. Her project experience includes Environmental Compliance and Permitting (NPDES, SWPP and BMP, RCRA, SPCC, WMD, FDEP and local Municipal Dewatering and Discharge); Industrial discharge characterization and permitting; Waste characterization and waste management; Contamination assessment and Initial remedial activities; Attenuation monitoring and Landfill monitoring; Baseline Environmental Impact Studies and Due Diligence, and Engineering and Design Services

PROJECT EXPERIENCE

Confidential Land Development Clients, Orange and Osceola Counties, Florida: Conducted site assessments associated with the former use of arsenicals and organochlorine pesticides at multiple cattle dip vats (CDVs). The assessment activities were conducted to evaluate, and delineate where needed, the soil and groundwater impact. Worked closely with client regarding development options, and associated remedial costs, at each CDV area based on the level of impact identified.

Confidential Land Development Client, Sumter County, Florida: Conducted site assessments and remediation associated with the former use of multiple CDVs, orange grove mix/load areas, burn pits and pump houses. The assessment activities were conducted to evaluate, and delineate where needed, the petroleum, arsenic, pesticides and dioxin impacts to soil and/or groundwater. Worked closely with client regarding development options based on regulated (point source) contaminated areas versus non-regulated impacts with a potential for civil liability concerns. Additionally, a large-scale study was conducted to demonstrate lines of evidence of naturally-occurring levels of arsenic above state criteria. Consulting included delineating the area of naturally occurring arsenic to segregate proposed residential versus commercial development. Soil Management Plans and Site Safety & Health Plans were developed for utility construction through areas of impact.

City of St. Cloud Gun Range, Osceola County, Florida

Ms. Wing conducted an assessment of the gun range in preparation for the decommissioning of a 20-year-old berm structure. The berm assessment and site assessment both addressed contaminated and hazardous levels of lead impact in soil. The site assessment is being conducted in accordance with the requirements of Chapter 62-780, FAC. Ms. Wing conducted regulatory interface with FDEP on behalf of the City to obtain approval for decommissioning activities and removal and appropriate disposal of contaminated soil, and to obtain the appropriate waste treatment permits for stabilization of hazardous soil at the facility. Based on the City's proposed land use, Ms. Wing will assist the City in regulatory interface for approval of institutional and engineering controls since the traditional disposal options for the large volume of contaminated/hazardous soil is not financially feasible.

EDUCATION

B.Sc. Geology, University of Pretoria, South Africa, 1992

B.Sc. Engineering Geology, University of Pretoria, South Africa, 1993

CERTIFICATIONS

FDEP Qualified Stormwater Management Inspector # 25268

Continuing Education Provider, Discharge Permitting for PE's, since 2008

OSHA 8-hr Annual HAZWOPER Refresher – annually

OSHA 40-hr HAZWOPER (40 CFR 1920.120) - Cert # HAZ3940701037,1994

EPA's Storm Water Permits and Pollution Prevention Plans – ERC, Nashville, TN, March 2002

AFFILIATIONS

Commercial Real Estate Women, Board of Directors 2010 through 2012, Executive Director 2013

Women in Aviation, member since 2008

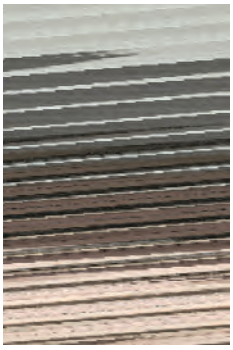
YEARS OF EXPERIENCE

Years with Terracon: 1
Years with other Firms: 25

Tab 2 – Qualifications, work histories, and abilities of proposed key personnel

Igor Karimov

PROJECT MANAGER/SENIOR PROJECT ENGINEER



EDUCATION
BS, Mining / Environmental Engineering, Moscow State Geology University, 1997

CERTIFICATIONS
AHERA Asbestos Inspector

OSHA 1910.120 Hazardous Waste Operations Training

YEARS OF EXPERIENCE
Years with Terracon: 10
Years with other Firms: 2

PROFESSIONAL EXPERIENCE

Mr. Karimov is a project engineer in Terracon's Winter Park, Florida, office. He is responsible for project management, quality assurance and directing field staff to sample, test, and collect data and/or document on-site activities at various client sites. Mr. Karimov has 12 years of experience in the environmental consulting field and has managed and coordinated a variety of projects. His experience also includes operation and maintenance of remediation equipment, due diligence, hazardous waste characterization and disposal, contamination assessments and remediation of properties impacted by pesticides, herbicides, chlorinated solvents, petroleum constituents, metals and other contaminants. Mr. Karimov has managed hundreds due diligence environmental assessments including Transaction Screens, Check Lists, Phase I and Phase II ESAs for commercial and industrial properties. Mr. Karimov often conducted additional services in connection with Phase I ESAs that included asbestos, lead-based paint and lead in drinking water sampling.

PROJECT EXPERIENCE

City of Cocoa EPA Brownfield Cooperative Agreement BF-00D33015
Project Engineer/Task Manager for current EPA Brownfield Assessment Grant. Since being selected in October 2015, assisted in completing the Quality Assurance Program Plan (QAPP) and have already completed numerous Phase I ESA reports.

Greater Orlando Airport Authority (GOAA), Orlando, Florida
Project Engineer/Project Manager for projects related to the continuing environmental services contract for GOAA (which includes the Orlando International Airport and the Orlando Executive Airport). Services provided for this contract range from Phase I and II environmental site assessments, complete site assessments and remedial actions, landfill monitoring, indoor/outdoor air quality (such as mold issues), asbestos consulting, and compliance audits at facilities on GOAA properties.

Florida Department of Environmental Protection, Florida
Project Engineer/Task manager for turnkey environmental services for petroleum and hazardous waste contaminated sites throughout Florida. Managed Initial Remedial Actions, Contamination Assessment Reports, and Remedial Action Plans. Work was performed under the FDEP Division of Waste Management. Work governed by Chapters 62-770 and 62-780 Florida Administrative Code.

City of Altamonte Springs, Florida
Project Engineer/Task manager for environmental services. Contract services include Geotechnical Engineering, Construction Materials Testing and Environmental Consulting Services.

Tab 2 – Qualifications, work histories, and abilities of proposed key personnel

Laura Sebastian

ENVIRONMENTAL SCIENTIST

EDUCATION
BS, Marine Biology
Florida Institute of Technology 1994

CERTIFICATIONS
AHERA Asbestos Inspector

40 Hour Hazwoper

YEARS OF EXPERIENCE
Years with Terracon: 9
Years with other Firms/Agency: 14

PROFESSIONAL EXPERIENCE

Ms. Sebastian has over 13 years of environmental consulting experience and over ten years of experience working for the Florida Fish and Wildlife Conservation Commission (FWC). Ms. Sebastian has actively participated in a wide range of environmental applications, including Phase I/II Environmental Site Assessments (ESAs), underground storage tank (UST) **closures**, industrial health assessments, compliance sampling, and remediation of contaminated soils and groundwater. Ms. Sebastian also has experience with fieldwork including ground and surface water data acquisition and sampling, monitor well installation, soil screening and sampling, drilling oversight, field data collection, field quality control and safety, and sampling equipment operation and calibration. Project Scientist for Phase I ESAs on residential, commercial, industrial, and undeveloped properties ranging in size from less than one to over 500 acres. Project Manager for approximately 50 Phase II ESAs with activities including: soil boring completion, soil screening using an organic vapor analyzer, soil sampling, groundwater well installation, groundwater monitoring, groundwater sampling, data analysis, and technical reporting. Project Scientist for Phase II ESAs with activities including: soil-boring completion, soil-screening using an organic vapor analyzer, soil sampling, groundwater well installation, groundwater monitoring, groundwater sampling, data analysis, surveying, and technical reporting.

PROJECT EXPERIENCE

Orange County Public Schools Continuing Contract, Florida
Senior Scientist for this continuing geotechnical engineering, construction materials testing and environmental consulting services contact with Orange County Public Schools since 1994. These services have included providing Phase I and II ESAs for property acquisitions and other environmental services on an as needed basis for new schools and additions/improvement to existing schools.

Florida Department of Environmental Protection, Florida
Project Scientist/Task manager for turnkey environmental services for petroleum and hazardous waste contaminated sites throughout Florida. Managed Initial Remedial Actions, Contamination Assessment Reports, and Remedial Action Plans. Work was performed under the FDEP Division of Waste Management. Work governed by Chapters 62-770 and 62-780 Florida Administrative Code.

Tab 2 – Qualifications, work histories, and abilities of proposed key personnel

John O'Reilly, CIAQP

SENIOR PROJECT ENVIRONMENTAL SCIENTIST

PROFESSIONAL EXPERIENCE

Mr. O'Reilly has 25 years of environmental consulting experience, and he has served as a senior environmental risk assessor, regional manager and project manager. Across the country, he has performed Phase I and II ESAs, contamination assessments, asbestos surveys, lead-based paint surveys, indoor air quality assessments (IAQ), PCAs and environmental regulatory compliance inspections for a variety of clients and different property types such as apartment complexes, shopping centers, office buildings, warehouses and manufacturing/industrial facilities.

PROJECT EXPERIENCE

I-4 Bridges – Seminole and Volusia Counties, Florida

Project Scientist to conduct an asbestos survey on the following bridges within Interstate 4 in Seminole and Volusia County, Florida, as a subconsultant to support Stantec and the Florida Department of Transportation (FDOT) plan to expand or replace the bridges.

- St. Johns River Bridge Nos. 790196 (WB) & 790197 (EB),
- Padgett Creek Bridge Nos. 790099 (EB) & 790941 (WB),
- Dirksen Drive Bridge Nos. 790042 (WB) & 790100 (EB),
- Enterprise Road Bridge No. 790191
- Saxon Boulevard Bridge Nos. 790166 (WB) & 790167 (EB),
- SR 472 Bridge Nos. 7900053 (EB) & 790190 (WB)

Asbestos Surveys - Nationwide

Mr. O'Reilly has conducted and managed hundreds of asbestos surveys for renovations or demolition purposes per National Emission Standards for Hazardous Pollutants (NESHAPs) requirements. The surveys consisted of bulk sample collection of suspect asbestos-containing materials (ACMs) for laboratory analysis and a report describing the condition, locations, and quantities of identified ACM. Notable projects include the following: a city block in south Florida containing multiple commercial and apartment buildings; a 7-story naval barracks building and hotel complex containing 650+ guest rooms in Orlando, Florida; grocery stores; multi-story office buildings; department store buildings; an abandoned high school building built in the early-1900s; and abatement oversight of partially buried transite panels.

Canaveral Port Authority, Environmental Property Management Engineering Support Services Cape Canaveral, Florida

Project Manager for Environmental Property Management at Canaveral Port Authority (CPA). Mr. O'Reilly has conducted numerous asbestos and lead paint surveys on various cruise terminals and other port facilities for the last 5+ years. Port and waterfront projects, include Cruise Terminals, Berths, Warehouses, Container Yards, Parking Garages, Pipelines, High Mast Lighting, Pavements and Dredge disposal areas

EDUCATION

BA Environmental Studies
University of Kansas 1990

Additional Geology and Hydrogeology Courses
University of South Florida 1998-1999

REGISTRATIONS

AHERA Asbestos Inspector and Management Planner

Florida Licensed Mold Assessor, No. MRSA212

Association of Energy Engineers, Certified Indoor Air Quality Professional, No. 338

EPA Certified Lead-Based Paint Inspector, Florida # FL-I-6184-1

OSHA 1910.120 Hazardous Waste Operations Training

AFFILIATIONS

Association of Energy Engineers

Metropolitan Orlando Environmental Training Alliance

Tab 2 – Qualifications, work histories, and abilities of proposed key personnel

Brian P. Brandon

SENIOR PROJECT MANAGER

PROFESSIONAL EXPERIENCE

Mr. Brandon has over 6 years of experience as an environmental professional, specializing in the investigation and management of environmental due diligence and natural resources projects in the southeastern United States.

PROJECT EXPERIENCE

Orange County Public Schools Continuing Contract, Florida
Senior Staff Scientist for this continuing geotechnical engineering, construction materials testing, and environmental consulting services contact with Orange County Public Schools since 1994. These services include, Threatened and Endangered Species Studies and other environmental services on an as needed basis for new schools and additions/improvement to existing schools.

Seminole County Public Schools (SCPS), Florida
Senior Staff Scientist responsible for providing Environmental Consulting Services including Endangered Species Impact Analysis and Permitting and Ecological Services. Gopher Tortoise Permitting and Relocation and other environmental services for projects.

O'Reilly's at Palm Coast, Palm Coast, FL
Senior Staff Scientist to provide Endangered and Threatened Species Survey and Wetland Assessment services including a review of the current site conditions and available documentation pertaining to state and federally protected plant and animal species and their habitat; as well as an assessment to determine if wetlands were present on site.

Sanford Site T&E Species Survey, Sanford, FL
Senior Staff Scientist to provide Threatened and Endangered Species/Habitat Assessment including a review of the current site conditions and available documentation pertaining to state and federally protected plant and animal species and their habitat.

Indrio Road Commercial Development, Ft. Pierce, FL
Project manager for a proposed commercial development. The scope of services includes a wetland assessment and delineation, listed species review, agency review of the wetland delineation, preparation of UMAM data sheets, and environmental permitting.

Metrowest Site - South Hiawassee Road and Lake Debra Drive Orlando, Orange County, Florida
Phase I ESA was performed on 9.28 acres (total) for anticipated Future Site Use of a Multi-family residential unit.

O'Reilly Hoffner, Orlando, Orange County, Florida
Phase I ESA was performed on a site consisting of one parcel and is a 0.98-acre tract of land improved with a 7,200 square foot single-story retail story building, associated paved parking, and associated utilities.

EDUCATION

Bachelor of Science, Biology
University of Central Florida, 2012

CERTIFICATIONS

FWC Authorized Gopher Tortoise Agent

Certified Florida Master Naturalist

PADI Certified Open Water Diver

CPR, AED, and Basic First Aid

ADDITIONAL TRAINING

38-Hour Army Corps of Engineers Wetland Delineation Training Program

AFFILIATIONS

Florida Native Plant Society – Tarflower Chapter

National Association of Environmental Professionals

Ecological Society of America

National Audubon Society

Florida Fish and Wildlife Conservation Commission – Volunteer

Florida Forest Service - Volunteer

YEARS OF EXPERIENCE

Years with Terracon: 1
Years with other Firms: 6

* *Work performed prior to joining Terracon.*

Tab 2 – Qualifications, work histories, and abilities of proposed key personnel

Gary K. Howalt, PWS

DEPARTMENT MANAGER I

PROFESSIONAL EXPERIENCE

Gary has over 41 years of diverse technical and project management experience in environmental assessment programs, including 32 years with Environmental Services, Inc., A Terracon Company (ESI). His experience includes the collection and analysis of biological materials, water quality and quantity, and sediment samples from a variety of freshwater, estuarine, and marine environments; wildlife habitat analysis; and wetlands and endangered species ecology and permitting. He has performed the ecological assessments needed to identify development potential and constraints to development for a variety of industrial, public and private utility, commercial, residential and highway projects. He also assists in designing, implementing, and monitoring mitigation plans to create wetlands and the restoration of native habitats. In addition, Gary negotiates and coordinates activities with the various federal, state and local environmental agency representatives during his permitting efforts.

PROJECT EXPERIENCE

Black Creek Water Resource Development Project, St. Johns River Water Management District, Clay County, FL
Wetland assessment, delineation and permitting, endangered/threatened species surveys and cultural resource assessment

Canaveral Port Authority (CPA), Environmental Consulting Services, Brevard County, FL
Wetland assessment and permitting, endangered/threatened species surveys.

CPA – Multimodal Terminal, Brevard County, FL
Environmental feasibility assessment of a barge rail terminal

CPA – SR 528 Rail Corridor Study, Brevard County, FL
Wetland and endangered species assessment

Levy Nuclear Plant, Levy, Citrus, Marion, Pasco, Hernando, Pinellas Counties, FL
Wetland mitigation plan

JEA, Environmental Consulting Services, Duval County, FL
Wetland assessment and permitting, endangered/threatened species surveys, permitting and relocation

World Commerce Center Development of Regional Impact (DRI), St. Johns County, FL
Wetland assessment and permitting, endangered/threatened species surveys

Bartram Park Development of Regional Impact (DRI), Duval and St. Johns County, FL
Wetland assessment and permitting, endangered/threatened species surveys

EDUCATION

Bachelor of Science, Biology, University of South Florida, 1977

AFFILIATIONS

American Water Resources Association

Florida Section American Water Resources Association

Society of Wetland Scientists

Florida Engineering Society

CERTIFICATIONS

Gopher Tortoise Authorized Agent, FWC

Certified Wetland Delineator, ACOE

Professional Wetland Scientist, PWS

Certified SCUBA Diver

FDEP Field Sampling Training Course for Groundwater/Soil, Surface Water, Wastewater, Sediment, Ultra-trace Metals, and Biology/Habitat

Health & Safety Training Course for Hazardous Waste Sites – 40 hours OSHA Program

YEARS OF EXPERIENCE

Years with Terracon: 32
Years with other Firms: 9

Tab 2 – Qualifications, work histories, and abilities of proposed key personnel

Wayne Misenar, E.P.
SENIOR PROJECT MANAGER

EDUCATION
Georgia Institute of Technology

University of South Carolina

CERTIFICATIONS
Asbestos Building Inspector

Advanced Supervisor of Asbestos Abatement Projects

40 Hour OSHA AZWOPER

8 Hour OSHA HAZWOPER Annual Refresher

Certified Toxic Mold Evaluation

PROFESSIONAL EXPERIENCE
Wayne has over 30 years senior management experience, and the last 25 years involved with site assessment and contamination remediation. He has specific experience and is qualified in Phase I and Phase II Environmental Site Assessment and indoor air quality evaluation including mold, asbestos, and other air quality pollutants. Under the current EPA All Appropriate Inquiry (AAI) Rule he qualifies as an Environmental Professional. In his over 25-years of experience with environmental related assessment he has completed over 1500 Environmental Site Assessments for Real Estate transactions, over 150 asbestos building surveys, and executed the planning, coordination and completion of numerous government agency, military and private sector contracts.

PROJECT EXPERIENCE
St. Johns County, Florida
Project management for development of the Silverleaf 12,500-acre CDD that included a large team of environmental scientists to provide due diligence assessment results associated with the former use of multiple underground storage tanks and a cattle-dip vat site, all of which required extensive assessment and remediation.

Jacksonville Beach/Jacksonville Housing Authority
Managed oversight of extensive housing redevelopment projects that included Phase I & II Environmental Site Assessment, and asbestos surveys for multiple low-income individual housing units, as well as a downtown multi-story complex representing both the city and the building contractor.

Brooklyn and LaVilla Areas, Downtown Jacksonville
Project management associated with redevelopment and due diligence of multiple downtown sites for private developers under Brownfields incentives. Contaminant concerns identified included numerous known and unknown storage tank locations, and former drycleaning facilities.

Berkman Plaza II, Downtown Jacksonville
Project management associated with redevelopment and due diligence of the former Berkman Plaza vacant structure and property prior to sale.

Former Jacksonville Shipyards, Downtown Jacksonville
Project management associated with proposed re-use of the former Metro Park and Kids Kampus sites that included extensive research, agency personnel coordination, and documentation to support City of Jacksonville requirements.

Name/Project Role: **Todd Hodgson, Vice President/Partner**	
Years with Company: 12 *Total Years of Experience:* 27 Years	*Groundater Protection, 2300 Silver Star Road, Orlando, Florida 32805* 407-426-7885 | todd@drillprollc.com
Bachelor of Business Administration, Management	*Hazwoper, American Petroleum Institute, CSX, Norfolk Southern, NASA and Lockheed Martin.*

Professional Qualifications/Skills:

Supervised multiple crew members and Project Managers of 25+ associates at our Orlando location. Managed a $6.5m+ portfolio of professional Environmental and Engineering accounts and led all forecasting, market analytics and proposal preparation and sales /development programs.

Project Experiences

- Launch Complex 34 DPT and Sonic Well Installations, Tetra Tech, NASA/Kennedy Space Center
- Former Needle Manufacturer DPT Well and Injections, Geosyntec Consultants, Deland, Florida
- Pformer Plating Company Superfund Site, Universal Engineering, Deland, Florida
- Former Landfill Daytona Beach Airport DPT Assessment/Injections, CARDNO, Daytona Beach, Florida

James E. Golden, P.G.
Vice President, Principal Hydrogeologist - Grove Scientific & Engineering Company

James (Jim) Golden serves as a Principal Hydrogeologist and Senior Project Manager for Grove. He has over 30 years of experience in all aspects of groundwater resources planning, analysis, contamination assessment and remediation, and solid waste facility design, permitting and monitoring. Mr. Golden has managed many large successful corporate environmental, mining, and solid waste projects throughout the State of Florida, southeastern United States, and Caribbean.

Education:
Bachelor of Science Environmental
Studies/Geology, Indiana University
Graduate Studies, Hydrogeology, University of Florida
Water Resources,
University of Central Florida

Registrations and Professional Affiliations:

Professional Geologist:
Florida, License No. 945
National Ground Water Association
Solid Waste Association of North America
U.S. Green Building Council

Selected Due Diligence and Remediation Project Experience

Environmental Site Assessments (ESAs)
Orlando, Florida
Senior Project Manager. Mr. Golden was Senior Project Manager for the due diligence ESAs for more than 50 properties in a 50-acre area along West Church Street in the Parramore area of Orlando. The Phase I ESAs followed ASTM E-1527 protocols that identified numerous Recognized Environmental Conditions (RECs) such as tanks, asbestos, solvent discharges, petroleum discharges, dry cleaners, auto repair shops, and transformer repair shops. The results of Phase II ESAs were used to develop cleanup cost estimates, indemnification agreements, and RAPs.

Phase I and II Environmental Site Assessments
Davenport, Florida
Project Manager. Mr. Golden was Project Manager for a Phase I and II ESA at the former Boardwalk and Baseball amusement park in Davenport, Florida. RECs identified at the 100-acre site included a debris dump, pesticide mixing area, chemical storage area, and shop areas. The Phase II ESA utilized a Geoprobe drill rig and mobile laboratory to obtain real time groundwater quality data to rapidly assess the site.

Phase I and II Environmental Site Assessments
Orange County Public Utilities, Orange County, Florida

Project Manager. Phase I and II ESAs were conducted for Orange County Public Utilities - University Shores Utility Acquisition, that included six private utility wastewater and water plant sites. Phase II ESAs were conducted at two plants which had a former underground storage tank (UST) and an aboveground storage tank (AST). Soils impacted by petroleum products were identified, and cleanup cost estimates and RAPs were developed.

Environmental Site Assessments, Site Assessments, and Remedial Action Plans

Greater Orlando Aviation Authority (GOAA), Orlando, Florida

Project Manager. Mr. Golden managed a multi-disciplinary team of professionals under a contract with the GOAA to conduct numerous ESAs, Site Assessments, and RAPs along the west ramp area of the Orlando International Airport. This former military installation (McCoy Air Force Base) required the cleanup of numerous USTs, petroleum discharges, and solvent discharges. Building demolition was a component part of some projects. Mr. Golden managed all projects under GOAA's risk management program.

Protocol Development

Southland Corporation, Multiple Sites throughout Florida, Georgia, South Carolina, and North Carolina

Project Manager. Mr. Golden managed and assisted in the protocol development for a program involving over 300 7-Eleven gasoline/convenience stores across Florida, Georgia, South Carolina and North Carolina for Southland Corporation. He oversaw the $9 million annual program of: UST closures, removals, and upgrades; Site Assessments; Phase I and II ESAs; remedial actions; and site divestitures. Additionally, Mr. Golden assisted in the development of acquisition contracts for selected properties.

Divestiture Program and Protocols Development

AT&T, Multiple Florida Sites

Project Manager. Mr. Golden developed a program and protocols to manage the divestiture of over 200 of AT&T's emergency generator fuel tank sites in Florida. He also conducted due diligence on over 20 divestitures that included asbestos, tank, and contamination remediation.

Solvent Contamination

Paulucci International, Sanford, Florida

Project Manager. Since 1998, Mr. Golden has managed a solvent contamination issue at the former Stromberg Carlson warehouse in Sanford, Florida, for Paulucci International. For the past five years, he has provided peer review of Stromberg's assessment and cleanup of the facility as the responsible party.

Contamination Assessment and Remedial Action Plan

AT&T, Gainesville, Florida

Project Manager. Mr. Golden managed the removal of two, 20,000-gallon USTs and conducted a Contamination Assessment to assess excessive soil and groundwater contamination at a large AT&T urban site in Gainesville, Florida. The complex Contamination Assessment Report was approved by Alachua County in one month. The RAP, also developed by Mr. Golden, was an aggressive design to remediate both groundwater beneath the site and from adjacent off-site parcels, and included soil vacuum extraction (SVE), dual-phase extraction, and air sparging.

Remedial Action Plan Development

Orlando, Florida

Project Manager. To remediate soil and groundwater contamination at the former Trailways bus station in Orlando, Florida, Mr. Golden was retained to develop a RAP for this site. The site had been active since the mid 1960s and included one 12,000-gallon and two 4,000-gallon diesel USTs prior to their removal in the late 1980s and early 1990s. The RAP included the excavation of 700 tons of impacted soil and the installation of a multi-phase vacuum extraction (MPE) to remediate both free product and contaminated groundwater. Excavation required construction and operation of a dewatering system requiring groundwater treatment and discharge to the sanitary sewer system. After only 30 days of MPE system operation, the site was fully remediated. The site subsequently received No Further Action status.

Sara Greivell
President, Principal Environmental Scientist
and Project Manager-

Education:

Carroll College, Waukesha, Wisconsin
B.S., Environmental Science 2005

Milwaukee Area Technical College, Mequon, Wisconsin
A.S., Environmental Pollution Control Technology 2003

Additional Courses, Certifications and Activities:

- Certified Visible Emissions Evaluator
- Hazardous Waste Managers Course
- 2009 Co-chair for Technical Programs FLAWMA Annual Conference
- 2011 Chairman - Young Professional Program AWMA Annual Conference

Internships:

- Wisconsin Department of Natural Resources, Milwaukee Wisconsin. Inspected new and existing wells in southern Wisconsin to ensure compliance with state code and regulations.
- Wisconsin Department of Natural Resources, Milwaukee Wisconsin. Monitored air quality in Milwaukee; collected filters to monitor and log data on ozone and $PM_{2.5}$ levels from various testing sites throughout the country.

Experience:

As an environmental scientist and project manager for Grove Scientific & Engineering Company, Mrs. Greivell's main focus is air pollution source permitting and consulting. She works to obtain Title V, non-Title V, and Air

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PHONE (407) 298-2282 •FAX (407) 290-9038

General Permits for clients. This includes extensive rule review to determine all applicable state and federal rules and regulations for a wide variety of air pollution sources. Mrs. Greivell assists clients in maintaining, renewing and all related reporting and record keeping requirements to ensure the client is in compliance with their air permit at all times. This reporting includes Green House Gas reporting, preparation and maintenance of CAM plans . Some recent examples of extensive rule review and source permitting include:

- 40 CFR Part 60 Subpart Dc Standards of Performance for Small Industrial-Institutional Steam Generating Units.
- 40 CFR Part 60 Subpart OOO Standards of Performance for Nonmetallic Mineral Processing Plants
- 40 CFR Part 60 Subpart EEEE Standards of Performance for Other Solid Waste Incineration Units.
- 40 CFR Part 63 Subpart RRRR NESHAP for Secondary Aluminum Production
- 40 CFR Part 63 Subpart WWWW NESHAP for Reinforced Plastic Composites Production
- 40 CFR Part 60 Subparts IIII and JJJJ RICE Rule
- 40 CFR Part 63, Subpart ZZZZ RICE NESHAP
- 40 CFR Part 63, Subpart GGG NESHAP for Pharmaceuticals Production
- 40 CFR Part 60 Subpart WWW NSPS for Municipal Solid Waste Landfills
- 40 CFR Part 63 Subpart AAAA NESHAP for Municipal Solid Waste Landfills
- 40 CFR Part 60 Subpart XXX NSPS for Municipal Solid Waste Landfills that Commenced Construction, Reconstruction or Modification After July 17, 2014

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Willie G. Smitherman

JAEE Environmental Services, Inc.

CAREER ACCOMPLISHMENTS AND QUALIFICATIONS

ENVIRONMENTAL SALES AND SERVICE

JAEE ENVIRONMENTAL SERVICES, INC., Davie, Florida -- September 1991-Present

Service (September 1991-Present)
Certified Environmental Specialist -- (Environmental Assessment Association)
Certified Environmental Inspector--(Environmental Assessment Association)
- Provide onsite analyses of volatile organic compounds using a portable gas chromatograph to delineate contamination plumes and remedial system startups.
- Site assessments and investigations (Phase I and II's)

Marketing (September 1991-1996)
Regional Sales Representative for Sentex Systems, Inc., manufacturer of gas chromatographs.
- Assist environmental companies through sales in providing on-site analyses.
- Develop product recognition through mass mailings and personal contact.
- Provide technical assistance in evaluating the specific needs of the clients to include training and follow-up after sales.

GEOPROBE SERVICES AND ONSITE SCREENING (September 1992-Present)
- Provide soil and groundwater sampling using the Geoprobe System
- Inject Oxygen Release Compounds into the formation
- Provide conductivity reading for lithology
- Install permanent and temporary monitoring wells
- Provide onsite screening of volatile organic compounds using portable gas chromatographs
- Verify onsite start-ups for remediation systems
- Clients include the federal government, environmental and engineering companies and industry.

HAZARDOUS WASTE MANAGEMENT

NUS CORPORATION (Superfund Division), Tucker, GA -- December 1983 - September 1991

Subcontracts (April 1990 - September 1991).
Control activities related to the procurement of supplies, equipment and services for field investigations in EPA Region 4.
- Prepare source lists for contract actions.
- Prepare solicitations for contracted services.

DARLA J. MILLER
SR. SCIENTIST

Ms. Miller has over 30 years of experience in ecological assessments, environmental consulting and permitting. During her consulting career, Ms. Miller has worked on many small and large-scale projects. One of the most notable large-scale plans included the Vision Plan for Taylor County, which established a comprehensive environmental, economic, and planning tool for over 300,000 acres.

Ms. Miller has facilitated many public meetings and is skilled at coordinating difficult goals between her clients and the regulatory agencies. This hands-on, broad-based approach provides her clients with a plan that meets the state and federal regulations, while maximizing the goals set by the project team.

Ms. Miller has significant experience with design and implementation of wetland impact, mitigation, and land management plans, negotiating permitting solutions with regulatory staff, resolving permit non-compliance and violation cases, and performing the needed ecological field assessments. Ms. Miller provides expertise in wetland creation, having participated in the successful design and construction of over 500-acres of creation for mitigation projects.

Education:
B.S. in Forestry – Mississippi State University, 1993

M.B.A. – Rollins College, 2004

Professional Organizations:
- Association of Florida Community Developers
- Central Florida Association of Environmental Professionals

PROFESSIONAL EXPERIENCE:

Modica & Associates, Inc. – Clermont, Florida
Sr. Scientist/Sr. Project Manager—2014 – Present

Southeastern Ecological Partners, Inc. – Clermont, Florida
Owner—2011-2014

VHB – Orlando, Florida
Environmental Team Leader—2010-2011

MSCW, Inc. – Orlando, Florida
Environmental Services Director & Partner—2001-2010

Breedlove, Dennis & Associates, Inc. (BDA) – Winter Park, Florida
Project Manager—1994-2001

U.S. Forest Service – Starkville, MS
Forester—1990-1994

U.S. Forest Service – Asheville, NC
Forester—1985-1990

REPRESENTATIVE PROJECTS:

East-West Road (Williams DRI) – Lakeland, Florida
As the Environmental Services Director of MSCW, Ms. Miller was responsible for the preparation of the ACOE and SWFWMD permit applications for impacts to wetlands within an East-West connector road between County Road 33 and the Polk Parkway. This road parallels Interstate-4 (I-4) and acts as a bypass to I-4 and a direct connection to the USF Polytechnic Campus. The FDOT identified this roadway as

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darlam@modica.cc

a project that would be eligible for ***stimulus funding***. There was extensive coordination with the FDOT regarding a potential challenge by a third party in regard to the mitigation banks chosen for this project. Because this project was at least partially funded using stimulus money, specific project spending reporting criteria was required. The project was designed to meet EPA 404(b)(1) guidelines and USFWS Section 7 requirements, as well as Chapter 373, Florida Statutes and Chapter 40E-4 Florida Administrative Code requirements.

USF Polytechnic (Williams DRI) – Lakeland, Florida

As the Environmental Services Director of MSCW, Ms. Miller was responsible for the preparation of the ACOE and SWFWMD permit applications for impacts to wetlands within the new USF Polytechnic (USFP) campus. This project included former mined lands and altered wetland systems. A Wetland Determination was obtained from the SWFWMD for this site prior to submitting the wetland impact permit applications. This project included ***impacts to 100% of the wetlands*** within the USFP campus boundary. One of the primary components of the mitigation plan included the donation of lands within the area owned by the Williams Acquisition Holding Company, which are located in the headwaters of the Peace River hydrologic drainage basin and were critical to the water supply within the basin. These lands included former clay settling ponds and other adjacent lands. Significant evidence was presented to support the fee-simple donation of 770 acres to the FDEP and the installation of two pipes and outfall structures which will convey water to the lakes in Tenoroc. The wetland mitigation evaluation was conducted using the Unified Wetland Assessment Methodology (UMAM). By negotiating an on-site alternative, ***Ms. Miller saved the client approximately $8M in offsite credit purchase***. Extensive coordination was conducted with the FDEP (Tallahassee), SWFWMD (Bartow and Brooksville), ACOE (Tampa), FWC (Lakeland) and USFWS (Vero Beach) to negotiate the application and refine the mitigation requirements. Over 10 excess credits were derived from the SWFWMD and will be applied to other projects within the Williams DRI. The project was designed to meet EPA 404(b)(1) guidelines and USFWS Section 7 requirements, as well as Chapter 373, Florida Statutes and Chapter 40E-4 Florida Administrative Code requirements.

Orange County Convention Center, Phase V – Orange County, Florida

Ms. Miller provided environmental consulting services for the 240± acre phase of the Convention Center, including approximately 90± acres of wetlands. Ms. Miller was responsible for preparing, submitting and negotiating the SFWMD and ACOE permits for the ***complete removal of the wetlands*** and negotiated the mitigation plan. The mitigation plan included the purchase of offsite lands within the Shingle Creek basin, which had been identified for many years on the state's acquisition list, but funding had not been allocated for the purchase. This was a highly controversial project and required many meetings in both the Orlando and West Palm Beach SFWMD offices. The controversy was primarily due to the fact that Osceola County was also pursuing an increase of their Convention Center and the first entity to obtain their permits would gain an advantage over the other in drawing in conventions. The Orange County Convention Center was the first to gain the permits needed for construction. Permitting agencies involved with this project included the Orange County Board of County Commissioners, Orange County Environmental Protection Division, SFWMD (Orlando and West Palm Beach) and the ACOE (Cocoa).

Lake Myrtle Ski Park – Auburndale, Florida

Ms. Miller serves as lead Environmental Consultant for this unique project for a major connector road, a cable ski park constructed within a private lake (Lake Myrtle) and a three-event ski lake constructed within the upland areas. Many public and private entities are involved with this project – City of Auburndale, Polk County, US Water Ski Foundation, and private land owners. This project was designed to provide ***Olympic training*** for wake boarding and other water sports. It is possible that this project will bring the Olympic rings to central Florida because there is no other Olympic facility in the US set up to host the wakeboarding event.

ELAINE A. IMBRUGLIA
PRESIDENT, SR. SCIENTIST

Ms. Imbruglia has 25 years of experience in ecological consulting and scientific studies. During her career, she has worked for the private, public and non-profit sectors. Prior to her 16 years of employment with Modica & Associates, Ms. Imbruglia served as a Staff Environmental Analyst for the South Florida Water Management District.

Ms. Imbruglia specializes in comprehensive environmental planning and strategic site design for large-scale projects. She also provides expertise in Environmental Resource Permitting, water quality monitoring, ArcGIS and geodatabase management. Other areas of expertise include Formal Wetland Determinations; Federal Dredge and Fill Permitting; Habitat Management Plans and Natural Resource Management Plans; gopher tortoise permitting and relocation; National Environmental Policy Act (NEPA) compliance; wetland functional quality assessments (UMAM, WRAP); listed species survey design, implementation and permitting through the USFWS and FWC; mitigation design and permitting; and Mitigation and Conservation Bank permitting.

Ms. Imbruglia served as Vice Chair for the Orange County Development Advisory Board and is an active member of the Association of Florida Community Developers. She is an FDEP Certified Stormwater Inspector and an FWC Gopher Tortoise Authorized Agent.

Ms. Imbruglia collaborates with interdisciplinary project team members to design innovative, responsible, and economical development plans and to secure regulatory agency approvals. She serves as a liaison between regulatory agencies and applicants during permit acquisition and resolution processes.

PROFESSIONAL EXPERIENCE:

Modica & Associates, Inc. – Clermont, Florida
President—2010 – Present
Vice President—2003 – 2009

South Florida Water Management District – Orlando, Florida
Staff Environmental Analyst—2000-2003

Ivey, Harris & Walls – Winter Park, Florida
Project Ecologist—1997-2000

The Nature Conservancy – Poinciana, Florida
Ecology Intern—1997

Waste Isolation Pilot Plant – Carlsbad, New Mexico
Environmental Intern—Summers 94-96

REPRESENTATIVE PROJECTS:

Wooton Park Expansion – City of Tavares, Florida
Ms. Imbruglia served as the Lead Environmental Consultant to facilitate the 3.61± acre expansion of the City of Tavares' Wooton Park. The expansion consisted of permitting a boat/seaplane ramp, boat docks, extension of the existing TAV-LEE trail, and an access road and parking facility. Permitting efforts completed by Ms. Imbruglia included extensive lakeshore enhancement activities. Ms. Imbruglia

Education:
B.S. in Biological Sciences – Mississippi State University, 1994

M.S. in Biological Sciences – Mississippi State University, 1997

Licenses & Permits:
- Gopher Tortoise Authorized Agent (GTA-0900062E)
- FDACS Commercial Applicator (CM20390)
- FDEP Qualified Stormwater Management Inspector (#947)

Professional Organizations:
- Orange County Development Advisory Board (2012-2019)– Vice Chair (2017-2019)
- Association of Florida Community Developers
- Central Florida Association of Environmental Professionals

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Clermont, FL 34715
(P) 352.394.2000
eca@modica.cc

obtained an Aquatic Plant Management (APM) Permit from the Florida Fish & Wildlife Conservation Commission (FWC), to authorize extensive removal of vegetation along the shoreline to improve access and aesthetics. Ms. Imbruglia also obtained an Environmental Resource Permit (ERP) from the Florida Department of Environmental Protection (FDEP) to authorize placement of geofabric along the lakeshore to help prevent erosion. Ms. Imbruglia secured the ERP and Individual Permits from FDEP and the U.S. Army Corps of Engineers, respectively, for authorization of the boat/seaplane ramp and docks. Modica & Associates was a subconsultant for this contract with the City of Tavares. This project started in 2013; construction began in December 2016.

County Road 437 Realignment and Multi-Modal Study – Lake County, Florida

Ms. Imbruglia served as the Lead Environmental Consultant for this 4-mile roadway improvement study for Lake County's Public Works Department. Tasks performed by Ms. Imbruglia include site inspections, identification of species-specific wildlife survey requirements (i.e. gopher tortoise, scrub-jay, sand skink, bald eagle), participation in public informational meetings, preliminary contamination assessment, Natural Resource Conservation Service (NRCS) farmland consultation, Division of Historical Resource (DHR) cultural resource consultation, wetland identification and assessment, and preparation of final corridor analysis report. Modica & Associates was a subconsultant for this contract with the Lake County Public Works Department. This project started in 2015 and was completed in Spring 2017.

Blackburn Eldridge Stormwater Design—Deltona, FL

Ms. Imbruglia worked with the Project Engineer and the City of Deltona to design a stormwater retrofit to address flooding issues in a pre-Environmental Resource Permit (ERP) residential community. Ms. Imbruglia delineated and evaluated existing wetland systems that were being used as stormwater treatment ponds for the neighborhood, and assisted in design of the stormwater management system to adequately function and divert water to alleviate flooding. Completed tasks included wetland delineation, wetland functional assessment, ERP permitting, establishing seasonal high water elevations, and evaluating drainage patterns. Modica & Associates was a subconsultant for a contract with the City of Deltona. This project was completed in 2014.

Conner Preserve – Pasco County, FL

As a sub-consultant under a Continuing Services contract with Southwest Florida Water Management District (SWWMD), Modica & Associates (M&A) has conducted permit compliance review of the 2,980± acre Conner Preserve to ensure that the mitigation activities are being conducted as outlined by the Florida Department of Transportation (FDOT) mitigation requirements. Conner Preserve is a SFWMD-owned wetland mitigation area used to provide mitigation for FDOT projects that result in wetland impacts. Tasks performed by Ms. Imbruglia include conducting field reviews to document existing conditions, recommending land management activities to maintain compliance with permit conditions, coordinating with SWFWMD staff to ensure maintenance activities are being conducted, preparing annual monitoring reports to document results of monitoring efforts and recommended management activities. This is an annual, ongoing job that started in 2014 and continues to the present.

PUBLICATIONS:

Akers, Elaine C. 1997. Effects of predators and water color on growth, shape and coloration of the tadpoles of *Hyla chrysoscelis* (Anura:Hylidae). Thesis (M.S.)-Mississippi State University. Department of Biological Sciences.

Akers, Elaine C., Christopher M. Taylor and Ronald G. Altig. 2008. Effects of clay-associated organic material on the growth of *Hyla chrysoscelis* tadpoles. *Journal of Herpetology*. 42(2):408-410.

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Fax: 386.673.4001

BOB DEMPSEY
GENERAL MANAGER, FLORIDA

EDUCATION

B.S., Chemistry, Minor Biology (University of Pittsburgh, 1998)

EXPERIENCE

Mr. Dempsey has been a lab manager in the environmental industry since 2003. Mr. Dempsey is responsible for the direction and coordination of the daily activities for 90+ staff scientists, administrative personnel and service technicians at the company's Florida operations. He is responsible for maintaining project management oversight and direction in conjunction with corporate sales directives and goals, and he provides guidance and direction to the laboratory's Quality Assurance staff in conjunction with corporate goals, EPA guidelines, NELAC guidelines, and various other state and federal guidelines.

Prior to assuming the position of General Manager with Pace, Mr. Dempsey has over 20 years of environmental analytical laboratory experience includes over eight years at the analytical bench in the organic laboratory. He is knowledgeable and proficient in a number of analytical protocols, including: GC, GC-MS, HPLC instrumentation and organic prep utilizing SW-846 and NCASI methods. He has also served and as a laboratory manager for over 12 years of his tenure in the environmental field, he has been able to assist a wide variety of clients through the laboratory analytical processes and their related regulatory, quality control and financial issues, often identifying alternative approaches that ensure project data quality and turnaround times are met and that expenses are minimized.

Michael E. Patterson — Petrotech Southeast, Inc.

Mike Patterson has been with Petrotech Southeast, Inc. as a Sales Representative and Project Manager since July, 2004. Prior to joining Petrotech, Mr. Patterson spent 20 years as a field technician and office supervisor for a local laboratory. Mr. Patterson brings a diverse and extensive knowledge in the environmental industry including Project Management of emergency response efforts, remediation projects, and industrial cleanup settings, and has over 24 years of experience in the environmental services industry.

Mr. Patterson serves as a Project Manager for Petrotech's environmental services side of the business. He works with our environmental services team to ensure that all of our projects are executed quickly, safely under OSHA regulations and guidelines, and in a manner that exceeds customer expectations. His diverse background and hands-on knowledge of multiple environmental projects enables him as a project manager to assess any situation and act quickly and decisively to complete the job. With his years of field experience, Mr. Patterson has also developed a strong working relationship with local and state regulators throughout the State of Florida.

Experience

Utility Plant in North Florida Mr. Patterson managed a crew of 18 team members to clean up and contain a 25,000- gallon No.6 oil spill from a large 2.4 million gallon fuel oil tank. This project involved deployment of vacuum trucks, excavators, frac tanks, and qualified personnel as well as coordinating efforts with local EPA Region IV.

#6-Oil Tank Cleaning Mr. Patterson managed a crew that removed approximately 65,000 gallons of #6-oil sludge from a 100' diameter tank at a power plant. The sludge was removed using vacuum trucks and vacuum assist pumps and then loaded into vacuum boxes and transported to a permitted solidification / disposal facility. The project was completed on time and on budget, even though the project was performed in January with sub-freezing temperatures.

Orange County, UCF South, Orlando, FL Petrotech Southeast, Inc. responded to a call regarding a release of Oily Water into a storm drain that leads to Lake Yale. Mr. Patterson managed a crew to deploy approximately 300 feet of boom and skimmed approximately 2,500 gallons of oily water from the surface of the storm line and retention pond. We worked with HSW Engineering and Orange County on this project.

Orlando Utilities Commission All OUC services are directed through Mr. Patterson. This includes routine services and emergency spill response calls. His strong industry knowledge and familiarity with OUC's facilities and procedures help Petrotech provide the highest level of services possible.

License and Certifications

40-Hour HAZWOPER. OSHA 29CFR1910.120
8-Hour Permit-Required Confined Space Entry
10-Hour OSHA Construction Safety Certified
FDOT Maintenance of Traffic Certified
MSHA Mine Safety Training
CSX Contractor Safety Certified
Adult CPR / First Aid
DOT Class B Commercial Driver

Employment History

Petrotech Southeast, Inc., 2004 to Present
US Bio Systems, Inc., 1987-2004

Member

METRA – Metropolitan Environmental Training Alliance
Central Florida Environmental Discussion Network
NORA – Association of Responsible Recyclers

QUALIFICATIONS — SIMILAR PROJECTS

Include this form in the response

Respondent (or a combination of the firm, individual, or project manager assigned to the work) must have successfully completed at least three similar projects within the three years immediately preceding the date set for receipt of the response, as described in the Statement of Work. (Add additional sheet for optional additional completed projects.)

Completed Project 1:

Agency/company: Volusia County Schools

Current contact person at agency/company: Alex Ulin

Telephone: _386-947-8786 ext. 50818_ Cell: _386-527-6105_ Email: aulin@volusia.k12.fl.us

Address of agency/company: 200 N.Clara Avenue, Deland, FL 32720

Name of project: Chisholm Elementary School

Description: Emergency response to discovery of unknown UST at Chisholm Elementary School.Responded coordinated removal of UST, conducted closure assessment, submitted report to regulatory agency and didn't allow construction schedule to be delayed.

Project value: _$10,277.50__ Start date: _November, 2019 (month/year) Completion date: January 2020 (month/year)

Name(s) of assigned personnel:

Project manager: Mark Mulligan, PG

Others: Igor Karimov and Mike Burns

Completed Project 2:

Agency/company: City of Cocoa

Current contact person at agency/company: Charlene Neuterman

Telephone: _321-433-8509___ Cell: _321-313-0393_____ Email: cneuterman@cocoafl.org

Address of agency/company: 65 Stone Street, Cocoa, FL 32922

Name of project: Rosa L. Jones

Description: Phase I and Phase II ESAs and remediation related to a former funeral home and railway line. Assessed recognized environmental conditions (RECs) related to former embalming fluids, petroleum USTS, and railway. Removed a former heating oil UST and excavated arsenic impacted soils. FDEP SRCO issued.

Project value: _$57,200___ Start date: _March 2017____Completion date: July 2018 (month/year) (month/year)

Name(s) of assigned personnel:

Project manager: Mark Mulligan, PG

Others: Igor Karimov, Mike Burns, John Malkowski, PE, and David Beerbower, PG

QUALIFICATIONS — SIMILAR PROJECTS

Continued

Include this form in the response

Completed Project 3:

Agency/company: JRD Real Estate VI LLC

Current contact person at agency/company: Seth Morris

Telephone: _404-975-5200 ext 27__ Fax: _____ Email: smorris@republicproperty.com

Address of agency/company: 4392 Peachtree Road NE, Atlanta, Georgia 30319

Name of project: 12.8 Acre Property (Restaurant Depot)

Description: Phase I ESA identified Cattle Dip Vat. Assessment conducted delineated soil and groundwater impacts. Excavated cattle dip vat remains, allowed soils to remain by implementing engineering control of an impervious surface and coordinated conditional closure with conditions.

Project value: __$77,868____ Start date: __November 2016_ (month/year) Completion date: October 2017 (month/year)

Name(s) of assigned personnel:

Project manager: Mark Mulligan, PG,

Others: Igor Karimov, Mike Burns, John Malkowski, PE, David Beerbower,PG

Tab 3
Past and/or Present

Experience on Projects of this Type

Terracon

Tab 3 – Past and/or Present Experience

a) Respondent's documentation - Past or present experience of the firm and proposed key project personnel on projects of the type listed in this Statement of Work.

TERRACON CONSULTANTS, INC. - LIST OF SIMILAR PROJECTS/CONTRACTS

One of Terracon's core businesses is to service local governments through continuing services contracts. We have serviced our public sector for over two decades in the Central Florida area. Statewide we hold over 125 continuing service contracts (environmental, facilities, geotechnical, construction testing and inspection) with approximately 90 governmental agencies including state, county, and local governments. Terracon has an outstanding history of contract extensions and re-selection under these contracts. Terracon is very experienced with these types of continuing contracts and we currently hold several with numerous public agencies across the state including: the Florida Department of Environmental Protection (FDEP), Orange County, Volusia County, Seminole County, Lake County, Orange County Public Schools, Volusia County Schools, Seminole County Public Schools, and the Greater Orlando Aviation Authority, to name a few. Through these experiences we have gained the knowledge and insight necessary to provide the City with the expertise required for this contract.

Terracon has served as a general environmental engineering consultant on an as-needed basis and has completed several capital, utility and public works projects under the following projects/contracts:

Agency Name	Contract Title/Services	Contact Information
City of Altamonte Springs	Professional Services A: Geotechnical and Environmental Services	Karen McCullen, PE, BCEE (407) 571-8335 KMcCullen@altamonte.org
Canaveral Port Authority	Professional Geotechnical and Environmental Engineering Services	Robert Musser, Jr. (321) 394-3256, bmusser@portcanaveral.com
City of Cocoa	Environmental Assessment & Characterization Services	Charlene Neuterman (321) 433-8509 cneuterman@cocoafl.org
City of Ormond Beach	Continuing Contract for Professional, Architectural, and Engineering Services	Alex Schumann (386) 676-3306 alex.schumann@ormondbeach.org
City of Oviedo	Geotechnical, Testing, Environmental Services	Alexis Stewart (407) 971-5651 astewart@cityofoviedo.net
City of Palm Bay	Environmental & Remediation Services	Joan Junkala (321) 726-2601, ext. 5370 Joan.junkala@palmbayflorida.org
Corvias	Consulting Services	Chuck Cavaretta (785) 307-4774 chuck.cavaretta@corvias.com
Florida Department of Environmental Protection	Petroleum Contamination Site Response Action Services	Martin Ehlen (850) 245-7614 Martin.Ehlen@dep.state.fl.us
Greater Orlando Aviation Authority (GOAA)	Environmental Engineering Services	Dan Carrington (407) 825-3463 dcarrington@goaa.org
Lake County Public Schools	Asbestos, Lead, Mold Consulting Services	Randy Wells (352) 253-6669 wellsr@lake.k12.fl.us

Tab 3 – Past and/or Present Experience

Agency Name	Contract Title/Services	Contact Information
Orange County Public Schools	Geotechnical, Environmental & Construction Materials Testing Services	Jennifer Fowler (407) 317-3900 ext. 2033939 jennifer.fowler@ocps.net
Seminole County Public Schools	Districtwide Environmental Consulting Services	Jeremy Henkins (407) 320-7401 henkinjz@scps.k12.fl.us
University of Central Florida	Continuing Threshold and Geotechnical Services (Environmental)	George Hayner (407) 823-1577 george.hayner@ucf.edu
Verizon Wireless	Environmental Consulting Services	Adam Oliver O: (813) 632-2268; M: (925) 789-7294 Adam.Oliver@VerizonWireless.com
Volusia County	Professional Hydrogeological & Environmental Consulting Services	Gary Morton (386) 736-5967, ext. 3289, GMorton@volusia.org
Volusia County Public Schools	Environmental & Asbestos Management Services	Alex Ulin (386) 947-8786 aulin@volusia.k12.fl

Below, please find specific project examples that demonstrate our capabilities for the scope items requested by SJRWMD.

Confidential Phase II ESA – Cattle Dipping Vat

GREEN COVE SPRINGS, FLORIDA

Terracon conducted a Phase II ESA for a former cattle dipping vat (CDV) located on a rural property identified during field reconnaissance conducted as part of a Phase I ESA. The purpose of the Phase II was to evaluate potential impacts to soil and groundwater associated with constituents of concern (COCs) including arsenic and organochlorine pesticides.

A series of 11 soil borings were advanced in the vicinity of the CDV for the collection of soil samples. Additionally, seven discreet well points were advanced to obtain groundwater samples downgradient of the CDV. Soil impacts above the Direct Exposure Residential and Commercial/Industrial Soil Cleanup Target Levels (SCTLs) were identified. Arsenic was also identified above the applicable Groundwater Cleanup Target Level (GCTL) in various discreet sample locations. Organochlorine pesticides were not identified above applicable SCTLs or GCTLs. Based on the results, further delineation of the soil and groundwater impacts is required and has been recommended.

The Phase II ESA was conducted on time and in conjunction with a Phase I ESA for the site and surrounding parcels. The early identification of the CDV coupled with the prompt facilitation of the Phase II ESA allowed the client to make decisions critical to the site acquisition.

CLIENT:
Confidential

DATE:
Start: July 2020
End: on-going

FEE:
$9,000

HIGHLIGHTS:
Phase II ESA
Cattle Dipping Vat

Contamination and Remediation Site

BONNET SPRING PARK, LAKELAND, FLORIDA

CLIENT:
Florida Department of Environmental Protection (FDEP)

DATE:
Start: May 2018
On-Going

FEE:
$1. Million

HIGHLIGHTS:
Contamination Assessment of multiple discharge areas across 200-acre site being developed as Bonnet Spring Park.

Remediation of area near the proposed Welcome Center Building

The Bonnet Spring Park (former CSX Transportation) Site is approximately 200-acres of vacant land which is currently being developed as Bonnet Spring Park, Lakeland, Polk County, Florida. The proposed redevelopment includes Welcome Center Building, Children's Museum, Amphitheater botanical gardens, tree house, and trails etc. The Bonnet Spring Park (former CSX Transportation) Site originally operated as railroad switching and maintenance yard for nearly a hundred years and was decommissioned circa 1983. Historical use of the Site left several areas of soil and groundwater contamination. Terracon conducted contamination assessment activities and delineated the petroleum hydrocarbon impacts in soil and groundwater at multiple locations across the Site. The former diesel shop area is the proposed location for the Welcome Center Building and associated parking lots.

Terracon, on behalf of Bonnet Spring Park, submitted a Florida Department of Environmental Protection - Advance Cleanup Application for Redevelopment (ACR) and funding was approved for $1M towards cleanup of proposed Welcome Center Building and associated parking lots area.

Terracon conducted remedial activities prior to construction of Welcome Center building to access the contaminated material. Remedial activities include source removal to the top of the water table and soil mixing of chemical amendment to 5 ft into the water table to address the residual contaminants. Terracon completed remedial activities in 45 days to facilitate on-going Welcome Center Building activities. Currently conducting post-remediation monitoring activities.

Our expertise, thorough knowledge of FDEP petroleum cleanup programs, timeliness submitting application package on short notice, timely completion of remedial activities to facilitate Bonnet Spring Park construction activities, helped us be a part of legacy project in Lakeland Florida.

CLIENT:
City of Cocoa

POINT OF CONTACT:
Charlene Neuterman
Community Services Director
65 Stone Street
Cocoa, FL 32922
(321) 433-8577
cneuterman@cocoafl.org

DATE:
10/1/2015 to Current

FEES:
$57,200

SERVICE AREAS:
- Phase I ESA
- Phase II ESA
- UST Removal
- EPA Brownfield Grant Administration

STAFF ASSIGNED:
Mark Mulligan, P.G. – Client Manager
Eric Krebill, P.G. – QA/QC
Igor Karimov – Task/ PM
Mike Burns - Technician

Rosa L Jones Site

CITY OF COCOA, FL

Terracon currently holds an environmental consulting services contract with the City of Cocoa since 2015. The City of Cocoa recently had an EPA Brownfield Assessment Grant, which Terracon assisted the City with administering the grant and conducting assessments of properties.

In 2018, Terracon conducted a Phase I ESA at a property which was formerly utilized as a funeral home. The Phase I ESA identified onsite RECs such as the use of embalming fluids and indications of an underground storage tank (UST) as well as offsite RECs such as a former gas station up gradient to the site and the presence of a former railway line adjacent to the site boundary. A Geoprobe DPT rig was utilized to collect soil and groundwater samples from the site to assess for the impacts of the identified RECs. Terracon also utilized GPR to identify the presence and location of the UST and any other potential associated utilities and buried objects at the site. Based on the GPR information, the UST was located and subsequently removed from the site utilizing a backhoe. The UST was identified as a former heating oil UST and once removed, samples were collected to determine if there were any leakage that occurred which may have impacted the surrounding soils.

The results of the Phase II ESA also indicated that there were impacts by arsenic to the soil along eastern boundary of the site related to the former railroad and additional sampling delineating the extents horizontally and vertically of the arsenic impacts this area. Terracon was then able to qualify the site into the State of Florida Brownfield Redevelopment Program.

Once these activities were completed for the City of Cocoa, Terracon then contracted with the private purchaser of the property who was developing a townhome community. Terracon developed and implemented a remediation action plan (RAP) that consisted of an excavation plan which remediated the impacted soil and enabled the property to be redeveloped with residential townhouses. A Site Rehabilitation Completion Order (SRCO) has been issued by the FDEP for this site.

CLIENT:
Volusia County Engineering and Construction Division,

POINT OF CONTACT:
Gary Morton
123 West Indiana Avenue
Deland, FL 32720
United States of America
ph: (386) 736-5967 ext. 3289
mobile: (386) 804-9229
GMorton@volusia.org

DATE:
04/05/2015 - Present

FEES:
$123,000.00

SERVICE AREAS:
- Phase I ESA
- Phase II ESA
- Contamination Assessments
- Remedial Cleanup of Non-Petroleum Contaminated Sites.

STAFF ASSIGNED:
Mark Mulligan, P.G. – Client Manager

John Malkowski, P.E. – Project Manager

David Beerbower, P.G. – PM and QA/C

Mike Burns - Technician

Former Beck Ranch Property

OSTEEN, VOLUSIA COUNTY, FL

A former 250-acre cattle ranch that was previously owned by the St. Johns River Water Management District (SJRWMD) and was deeded to Volusia County in 1997. Volusia County has turned the site into a multi-use public park. Terracon conducted a Phase I ESA on the site, which identified a cattle dip vat in a clump of oak trees, as well as a tannery, at the ranch property. The vat, which was used to treat cattle with an arsenic based solution, was found damaged, with the walls collapsed into the cavity of the vat and it had been filled and covered with soil.

Terracon conducted subsequent Phase II ESAs at the site for the assessment of both soil and groundwater impacts. The Phase II results identified impacts to the soil and groundwater by arsenic related to the former cattle dip vat. The tannery was not found to have any impacts to the site. Based on the findings of the site assessment, an Excavation Plan was submitted to the Florida Department of Environmental Protection (FDEP). Terracon performed oversight for Volusia County Engineering and Construction Division (VCECD), who conducted the excavation activities, as well as coordinating the transportation and disposal of the impacted soils at a licensed disposal facility. Terracon submitted an Interim Source Removal report for the excavation and proper disposal of 3,613.54 cubic yards of arsenic-impacted soil. The FDEP approved the complete and proper removal of the soils from the site.

Site Assessment Status Reports were submitted to the FDEP in January and September 2013, documenting the installation and sampling of additional shallow monitoring wells and additional soil borings to further delineate the groundwater plume.

Since the soil impacts were removed and engineering and institutional controls were in place, Volusia County was able to move forward with the construction of the Beck Ranch Park without risk for health and the environment. Terracon has conducted additional groundwater assessment and monitoring and is currently working with the FDEP to finalize the groundwater monitoring activities.

CLIENT:
City of Ormond Beach

POINT OF CONTACT:
Alex Blake
22 South Beach Street, Ormond Beach, FL 32174
(386) 676-3306;
alex.blake@ormondbeach.org

DATE:
6/29/2014 – 9/12/2014

FEES:
$20,000

SERVICE AREAS:
- Phase I & II ESA
- Environmental Site Assessments
- Remediation/Site Rehabilitation under 62-780 F.A.C.
- Asbestos, Mold, IAQ Surveys
- Wetland and Endangered / Threatened Species Surveys

STAFF ASSIGNED:
Mark Mulligan, P.G. – Client Manager

John Malkowski, P.E. – Project Manager

Eric Krebill, P.G. – Project Scientist

Mike Burns - Technician

Tiger Bay State Forest Raw Water Production Well No. 39r (Formerly No. 54)

CITY OF ORMOND BEACH, FL

Terracon currently holds an environmental consulting services contract with City of Ormond Beach since 2010. Contract services included Phase I and II ESA's, site remediation, wetland, threatened and endangered species studies, groundwater remediation, asbestos/mold/indoor air quality surveys and other miscellaneous services.

Terracon recently performed an emergency response, environmental site assessment, and interim source removal at one of the City's Raw Water Production Wells located within the Tiger Bay State Forest. Ormond Beach personnel discovered a discharge of diesel fuel due to a mechanical/electrical system malfunction on the day tank associated with an emergency generator located within the pump house building. Terracon personnel immediately responded to the City's request to assist with the soil and groundwater site assessment, interim source removal of impacted soil, and proper disposal of impacted soil. Terracon teamed with the City of Ormond Beach's personnel to oversee and supervise the excavation of soil impacted by the discharge. Terracon facilitated the contracting of transportation and disposal of the petroleum impacted soils at a licensed landfill. Confirmatory soil and groundwater sampling results indicated remaining petroleum concentrations were below Florida's cleanup target levels, and additional assessment or remediation was not warranted. Terracon reported all findings to the FDEP Office of Emergency Response and requested a No Further Action status be granted for the site.

Due to Terracon's quick response and teaming with the City of Ormond Beach facilitated the assessment and removal of petroleum impacted soils before it could spread to the groundwater, resulting in a contaminant situation that could have impacted the public supply well and caused excessive assessment requirements and costs.

CLIENT:
Greater Orlando Aviation Authority (GOAA)

POINT OF CONTACT:
Dan Carrington
Environmental Coordinator
office – (407) 825 3463
cell – (407) 797-5559
dcarrington@goaa.org

DATE:
2016

FEES:
$20,000

SERVICE AREAS:
- Baseline Environmental Impact Investigation
- Assessment Similar to a Phase I and II with Utility Survey
- Field Investigation to Assess Soil and Groundwater

STAFF ASSIGNED:
Mark Mulligan, P.G. – Client Manager

John Malkowski, P.E. – Project Manager

Mike Burns - Technician

GOAA Proposed Clean Energy Site

6337 CARGO ROAD, ORLANDO, FLORIDA

GOAA routinely requests Baseline Environmental Impact Investigations (BEIIs) to determine the current environmental conditions in the subsurface soils and groundwater at prospective development sites at Orlando International Airport (OIA) with respect to the potential presence of petroleum impacts, hazardous chemicals or hazardous waste contamination from previous or historical site operations. This particular BEII was prompted to assess a property for the installation of a compressed natural gas (CNG) distribution facility at OIA. The proposed site lies within the boundaries of GOAA's closed Cargo Road Landfill, which is sampled and monitored on a semi-annual basis by Terracon. A review of historical aerials identified the proposed CNG site as being within the constraints of the former landfill, therefore, Terracon reviewed the groundwater analytical results from the previous Cargo Road Landfill reports, which indicated the presence of volatile organic compounds (VOCs) at concentrations above Florida's groundwater cleanup target levels (GCTLs) in a monitoring well located approximately 170 feet hydraulically downgradient from the proposed CNG site. The VOCs identified in the landfill's perimeter well were benzene, ethylbenzene, total xylenes, methyl tert-butyl ether (MTBE) and vinyl chloride.

Terracon conducted a utility survey utilizing ground penetrating radar (GPR) prior to utilizing a Geoprobe Direct Push Technology (DPT) drill rig to perform a limited number of soil borings to the water table at the site for volatile organic vapor field screening, and collected two soil samples based on the field screening results for laboratory analyses of VOCs, polynuclear aromatic hydrocarbons (PAHs), total recoverable petroleum hydrocarbon (TRPH), four Resource Conservation and Recovery Act (RCRA) heavy metals, chlorinated herbicides and chlorinated pesticides. Five temporary monitoring wells were installed at the site and representative groundwater samples were collected for analyses of the same parameters listed above for soils to evaluate the potential groundwater impacts.

Results indicated no soil impacts above the applicable SCTLs for tested constituents and based on the historical review of the Cargo Road Landfill documents, Terracon was able to determine that detections of benzene above the GCTL were attributable to the existing Cargo Road Landfill. GOAA and Clean Energy were able to utilize this forensic assessment information to develop the CNG facility, which is now open to the public at OIA.

CLIENT:
Greater Orlando Aviation Authority

POINT OF CONTACT:
Dan Carrington
Environmental Coordinator
office – (407) 825 3463
cell – (407) 797-5559
dcarrington@goaa.org

DATE:
2017

FEES:
$238,681

SERVICE AREAS:
- Assessment and remediation for petroleum impacts to soil and groundwater

STAFF ASSIGNED:
Mark Mulligan, P.G. – Client Manager

John Malkowski, P.E. – Project Manager

Igor Karimov - Scientist

Mike Burns - Technician

GOAA Motor Pool Fuel Area

ORLANDO INTERNATIONAL AIRPORT

Petroleum concentrations exceeding Florida's Groundwater Cleanup Target Levels (GCTLs) listed in Chapter 62-777, Florida Administrative Code (FAC) were detected in a groundwater sample collected on February 21, 2012 from shallow monitoring well SWQ-11 located adjacent to the southwest corner of the motor pool fuel farm, consisting of three 10,000-gallon aboveground storage tanks (ASTs).

A Discharge Reporting Form (DRF) dated April 16, 2012 was submitted by GOAA based on the February 21, 2012 sampling results for monitoring well SWQ-11. Site Assessment (SA) activities in response to the DRF were implemented by Terracon between August 2012 and April 2013. Based on the SA and approval of the assessment by Orange County Environmental Protection Division (OCEPD), Terracon submitted an Interim Source Removal (ISR) Proposal on March 14, 2014 to expedite the cleanup effort at the facility and meet GOAA's schedule related to the installation of 10,000 AST. In a letter dated March 21, 2014, OCEPD approved the ISR Proposal.

Terracon performed all soil and groundwater assessment, monitoring well abandonment, and the excavation activities to remove 485 tons of petroleum-impacted soil for disposal at a licensed landfill. After the soil was excavated, the pit was left open for 3 weeks allowing the operation of an intermittent air sparge system to volatize the petroleum groundwater plume. After the air sparge activities were complete, Terracon installed a horizontal injection well for introduction of a bioremediation mixture in the future (as a contingency but was not necessary), backfilled and compacted, resurfaced the area with asphalt, installed new monitoring wells, and performed post remediation groundwater monitoring, which showed remediation of the petroleum groundwater impacts to below Chapter 62-777, FAC GCTL). OCEPD and the FDEP issued a Site Rehabilitation Completion Order (SRCO) on February 2017. Terracon properly abandoned all monitoring wells and completed all assessment and remediation activities at the site in June 2017.

By utilizing the option to perform an ISR instead of a complete Remedial Action Plan, Terracon was able to save GOAA significant time and money remediating this issue.

CLIENT:
FDEP c/o OCPED

POINT OF CONTACT:
Kevin Thornton
Project Manager
(407) 836.1467
Kevin.Thornton@ocfl.net

DATE:
2014 - Current

FEES:
$100,734

SERVICE AREAS:
- FDEP Petroleum Cleanup Program
- Site Assessment
- Pilot Test
- Remedial Action Plan / Implementation

STAFF ASSIGNED:
Mark Mulligan, P.G. – Client Manager

John Malkowski, P.E. – Engineer

Robert Penoyer, P.E. – Project Manager

Igor Karimov - Scientist

Mike Burns - Technician

Sunoco Maguire

ORLANDO, FLORIDA

A discharge associated the vehicle fueling station petroleum storage and distribution system was reported to the FDEP in 1998 and found eligible for funding by the FDEP's Petroleum Cleanup Program (PRP). Soil/groundwater remediation activities conducted by other firms contracted by the FDEP were unsuccessful in remediating the petroleum discharge. Terracon was contracted by the FDEP in 2014 to conduct a site assessment of the residual petroleum contamination, conduct a pilot test for remedial alternative and submit a Remedial Action Plan (RAP) for utilizing in-situ air-sparging (AS) and multi-phase extraction (MPE) technology.

Our completed tasks include:

- Health & Safety Plan, work strategy proposals, access agreements, and shareholder communications.
- Screening soils for indications of petroleum impacts and collection of soil samples for laboratory analysis at soil borings advanced around operating underground storage tanks and fuel dispensers in general accordance with FDEP standard operating procedures (SOP) PCS-004, Soil Assessment and Sampling Methods.
- Installation of monitoring wells to delineate the horizontal and vertical extent of petroleum contamination in accordance with FDEP SOP PCS-006, Design, Placement and Installation of Monitoring Wells. Collection of groundwater samples from the new and existing monitoring wells in accordance with DEP SOP PCS-005, Groundwater Sampling Standard Operating Procedures Variances and Clarifications for Petroleum Restoration Program Sites, and DEP-SOP-001/01, FS2200.
- Management and disposal of investigation derived wastes. Relative elevation measurement of monitoring well top of casings, and measurement of groundwater flow.
- Evaluation of field and laboratory data in accordance with Chapter 62-777 and 62-780, Florida Administrative Code. Preparation of a Template Site Assessment (SA) Report and a Supplemental SA Report. A pilot test was conducted to evaluate effectiveness of AS/MPE and a RAP for this has been submitted in July 2017 for the installation of a AS/MPE system for the removal of residual petroleum contamination beneath the site, Colonial Drive, and adjoining property beyond the roadway.

QUALIFICATIONS — CLIENT REFERENCE

Include this form in the response

Respondent shall provide three client references, which may include the similar projects listed above. No more than one reference shall be from the District. (For similar projects listed above, simply state "Similar Project No. ___.")

Client Reference 1:

Agency/company: **Upchurch, Bailey, and Upchurch**

Current contact person at agency/company: Sidney (Sid) Ansbacher

Telephone: (904) 483-8088 Fax: _____ E-mail: Sansbacher@gray-robinson.com

Agency/Company Address: 780 N. Ponce De Leon Blvd., St. Augustine, Florida 32084

Name of project: St. Johns County School District (various Phase I ESAs)

Description: Assisted Sid, an attorney for the St. Johns County School District with various Phase I ESAs for large and small track parcels associated with future elementary, middle and high schools through out St. Johns County.

Project value: $22,000 Project manager: Kyle Hayes

Client Reference 2:

Agency/company: **Greater Orlando Aviation Authority (GOAA)**

Current contact person at agency/company: Dan Carrington

Telephone: (407) 825-3463 Fax: _____ E-mail: dcarrington@goaa.org

Agency/Company Address: 5855 Cargo Road, Orlando, Florida 32827

Name of project: GOAA Motor Pool Fuel Area

Description: Assessment per Chapter 62-780 FAC for petroleum discharg from a deisel AST. Delineated soil and groundwater impacts and conducted Initial Source Removal (ISR) consisting of soil excavation and intermittent air sparging to exposed groundwater. Receive SRCO in 2017.

Project value: $238,681 Project manager: Mark Mulligan, P.G.

Client Reference 3:

Agency/company: **Volusia County Engineering and Construction Division**

Current contact person at agency/company: Gary Morton

Telephone: (386) 736-5967x 3289 Fax: _____ E-mail: gmorton@volusia.org

Agency/Company Address: 123 West Indiana Avenue, Deland, FL 32720

Name of project: Former Beck Ranch Property

Description: Assessment per Chapter 62-780 FAC for arsenic impacts related to a former cattle dip vat. Delineated soil and groundwater impacts. Wrote Remedial Action Plan (RAP) and conducted excavation to remove 3,613 cubic yards of arsenic impacted soils for proper disposal. FDEP approved soil remediation and Volusia County created new Beck Ranch Par for public use. Terracon installed groundwater monitoring wells and continues to monitor arsenic impacted groundwater.

Project value: $123,000 Project manager: Mark Mulligan, P.G. and David Beerbower, P.G.

Tab 4

Location of Managing Firm

Project Manager relative to the geographic centroid of the District

Terracon

Tab 4 – Location of Managing Firm/Project Manager relative to the geographic centroid of the District:

We will serve the SJRWMD using the resources of our branch office located in Winter Park, Florida. **The address of the principal office is 1675 Lee Road, Winter Park, FL 32789**, located approximately 42.4 miles from the District centroid at Deleon Srings. Our office phone number is (407) 740 6110, and our fax number is (407) 740 6112. Our office coverage is ideal for serving the needs of the District through this contract. We offer the project management skills, technical expertise, relevant project experience, manpower and equipment resources necessary to provide the SJRWMD with the most responsive and highest quality Environmental and Engineerings Services available. All of the services completed under this contract will be provided through the Winter Park office, with primary support coming from our Jacksonville office and any additional support being provided from our Tampa and South Florida offices/personnel.

Terracon domiciles a local staff of 40 professional engineers, scientists and technical personnel comprised in our Geotechnical, Environmental, Drilling and Construction Materials Departments in our Winter Park office. **Mr. Mark Mulligan**, **P.G.,** Program Manager, will be the District's primary point of contact. Mr. Mulligan works full time out of the Winter Park office.

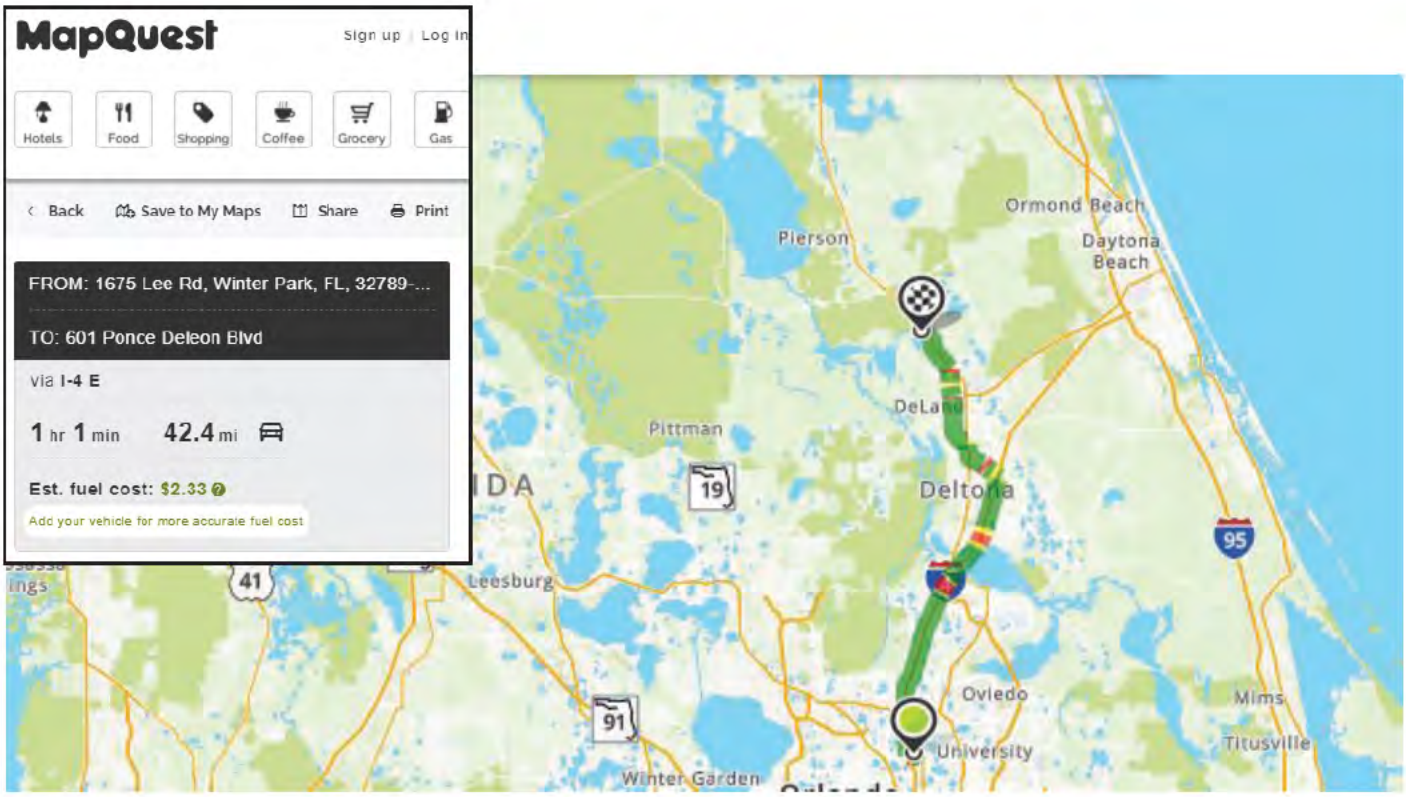
Furthermore, our Program Manager can draw on advice and assistance, if necessary, from other in-house professionals from our network of 800 environmental employees in offices nationwide (including 11 offices in the state of Florida) for extremely complex or large risk assessment, design or remediation projects. Terracon is one of the largest environmental professional, industrial hygiene, and asbestos services firms in the United States. Our professionals include several nationally-recognized experts in the practice of engineering testing services.

The Terracon Team offers the most talented group of environmental professionals in Florida to this SJRWMD contract. Our environmental professionals possess a very wide and diversified experience base. Most have worked for both the regulatory and consulting industry, are extremely knowledgeable about regulations, and respected by the regulators. You can be confident that our team can carry out any project that may arise during the life of the contract.

The website MapQuest was utilized to determine the mileage from our offices to the geographic centroid of the District (Deleon Springs State Park). The following snapshots show the shortest route type for the Winter Park office.

Tab 4 – Location of Managing Firm/Project Manager relative to the geographic centroid of the District:

Winter Park Office – 42.4 miles



Tab 5

Volume of District Work

Previously Awarded to Respondent

Terracon

Tab 5 – Volume of District Work previously awarded

Terracon has not provided any volume of work for the SJRWMD in the past three years. However, Terracon has provided measurement of hydraulic conductivity of clay and sand core samples and measurment of grain size distribution of clay and sand samples, as well as geotechnical engineering analysis services to the District dating back to 2016. Terracon has developed a strong working relationship with the District over the course of these projects.

Tab 6
Additional Information

Terracon

Quality of performance on previous contracts or services. One of Terracon's core businesses is to service local governments through continuing services contracts. We have serviced our public sector for over two decades in the Central Florida area. Statewide we hold over 125 continuing service contracts (environmental, facilities, geotechnical, construction testing and inspection) with approximately 90 governmental agencies including state, county, and local governments. **Terracon has an outstanding history of contract extensions and re-selection under these contracts.** Terracon is very experienced with these types of continuing contracts and we currently hold several with numerous public agencies across the state including: the Florida Environmental Protection Department (FDEP), City of Orlando, Orange County, Volusia County, Seminole County, Lake County, Orange County Public Schools, Volusia County Schools, Seminole County Public Schools, and the Greater Orlando Aviation Authority, to name a few. Through these experiences we have gained the knowledge and insight necessary to provide the SJRWMD with the expertise required for this contract.

Environmental Site Assessments Phase I and II

Terracon conducts a variety of assessments ranging from ASTM 1527-13 Phase I environmental site assessments (ESAs) to extensive subsurface investigations. Our ability to provide the full range of assessment and investigation services is enhanced by our complete field service capability, as well as our diverse staff of professionals. Terracon has performed more than 40,000 Phase I ESAs and more than 10,000 site investigations during the past 20 years.

Two types of environmental site assessments are routinely performed by Terracon: Phase I Environmental Site Assessments (ESA) and Phase II ESA. The goal of the Phase I ESA is to identify recognized environmental conditions (REC) such as hazardous substances or petroleum products on a property under conditions that indicate an existing or past release, or a material threat of a release that may impact environmental media on the property. Our Phase I ESAs are performed in strict accordance with requirements of ASTM E1527-13 standards and routinely include a limited review of non-scope considerations including radon, wetlands and suspect asbestos-containing building materials, if desired by the client. Our findings are accumulated in a final report which is reviewed and signed by an Environmental Professional. The goal of a Phase II ESA is to answer the questions as to whether or not the REC reported in the Phase I ESA presents an environmental concern, hazard or liability in the ownership/acquisition/redevelopment of the property.

Our Phase II ESAs are typically performed in general accordance with the guidelines of ASTM E-1903 and include sample collection of the appropriate environmental media for analyses by our subcontracted National Environmental Laboratory Accreditation Program (NELAP)-certified laboratory, Pace Analytical in Ormond Beach, of select parameters, depending upon the specific type of suspect or known contamination of concern. Terracon is fully licensed and equipped in-house for drilling but is prepared to utilize our subcontractor drilling companies Drillpro and JAEE if needed, and all field sampling and reporting activities. Our Phase II reports are reviewed internally for QA/QC purposes and signed and sealed by the licensed professional geologist or engineer identified at the outset of the project assignment as the authorized project reviewer and highly-experienced professional in charge.

Asbestos Survey Removal/Abatement and/or Disposal

Terracon provides a full range of asbestos consulting services, from the initial visual inspection and building survey to abatement project design, project oversight and monitoring, and operations and maintenance (O&M) plans. Terracon offers a one-source solution for the County's asbestos concerns.
Terracon inspectors perform surveys and collect samples of suspect asbestos-containing building materials (ACM) in schools, commercial and municipal buildings. The asbestos surveys follow the guidelines established under the US Environmental Protection Agency's (EPA) Asbestos Hazard Emergency Response Act (AHERA) program, and as required by EPA regulation 40 CFR Part 61, National Emissions Standards for Hazardous Air Pollutants (NESHAP) and FDEP. All Terracon AHERA

inspectors are licensed and certified as required by state regulations and work under the direct supervision of our Florida-licensed asbestos consultant. Our subcontracted National Voluntary Laboratory Accreditation Program (NVLAP)-certified laboratory, EMSL Analytical in Orlando, will provide polarized light microscopy, transmission electron microscopy and point count analyses, as needed.

Petroleum Contamination (Surface, Subsurface and Groundwater) Assessments / Assessment and Remediation of Contaminated Sites Prioritized under Florida's Petroleum Cleanup Initiative

Terracon has the capabilities to provide a full spectrum of soil, sediment, surface water and groundwater contamination assessment (CA) investigative and remediation services. Our team has extensive experience and a thorough understanding of the process for the planning, implementation and completion of CAs in soil and groundwater media involving petroleum, chlorinated solvent and heavy metals (such as lead) contaminants. We have completed CAs meeting the requirements of 62-780, FAC, on several hundred sites throughout Florida. Ultimately, projects completed by Terracon have resulted in regulatory issuance of Site Rehabilitation Completion Orders (SRCO). Those approvals have been obtained through numerous aggressive assessment and remediation techniques when site closure must be achieved in an expeditious manner and Natural Attenuation Monitoring (NAM) where we anticipate that utilization of natural processes over a longer period of time is a more cost-effective solution to ultimately achieve the same goal. Risk assessments using Risk Based Corrective Action options are performed where neither of these solutions is feasible and where the risk to human health, welfare and the environment is minimal. Our team includes seasoned professional staff, field technicians and sub-consultants qualified to provide field screening, sampling and analyses of collected data to ascertain the presence or absence and limits of potential contaminants under any conditions.

Our relationship with regulatory agencies allows us to work closely with the regulatory case managers to find practical, cost-effective methodologies and solutions to the implementation of contamination assessment and remediation. Terracon is approved by the FDEP as a Qualified Storage Tank/Petroleum Contamination Cleanup Contractor (#01128) to provide cleanup tasks under Florida's Petroleum Restoration Program.

Storage Tanks Closure, Compliance, Replacement, Removal and/or Upgrade

Terracon and our subcontracted Pollutant Storage Systems Contractor, Petrotech Southeast, has extensive experience in all aspects of aboveground/underground storage tank management from design and integrity testing to closure and closure assessment. For example, Terracon was selected by GOAA to perform routine tank compliance inspections for all GOAA facilities that include aboveground and underground tanks, oil water separators, skimmers and grease traps for verification of adherence to all appropriate environmental regulations and utilized Petrotech SE in these capacities. Also, Terracon teamed with Petrotech SE for an emergency response and UST removal for Volusia County Schools in December 2019. And recently, Terracon used Petrotech SE to decommission a former Sams Club gas station, removing all USTs, associated dispensers and piping and demolishing the canopy and kiosk.

Spill Prevention, Control and Countermeasure Compliance and Plan Preparation

Terracon provides semi-annual National Pollution Discharge Elimination Systems (NPDES) and Resource Conservation and Recovery Act (RCRA) compliance inspections for over 75 GOAA facilities including tenants. This program includes NPDES and RCRA compliance training for GOAA staff and tenants. As part of our inspections, Terracon monitors the facility compliance and adherence to permits issued by the State. Annual updates for both the Stormwater Pollution Prevention Plan (SWPPP) and Spill Prevention Control Countermeasures Plan (SPCCP) are also provided to GOAA.

Asbestos and Lead-Based Paint Services

Terracon provides a full range of asbestos and lead-based paint (LBP) consulting services, from the initial building survey to abatement project design, project oversight and monitoring, and operations and maintenance (O&M) plans. Terracon offers a one-source solution for most asbestos and LBP concerns.

Tab 6 – Additional Information

Asbestos Surveys

Terracon's inspectors perform surveys and collect samples of suspect asbestos-containing building materials (ACBM) in schools, commercial and municipal buildings. The asbestos surveys follow the guidelines established under the U.S. Environmental Protection Agency's (USEPA) Asbestos Hazard Emergency Response Act (AHERA) program, and as required by USEPA regulation 40 CFR Part 61, National Emissions Standards for Hazardous Air Pollutants (NESHAP). All Terracon inspectors are licensed and certified as required by federal and state regulations.

Lead-Based Paint Risk Assessments and Inspections

Terracon's Risk Assessors and inspectors perform LBP risk assessments and inspections in accordance with state, the USEPA and/or the U.S. Department of Housing and Urban Development regulations. Inspections are performed in buildings utilizing an X-ray fluorescence analyzer (XRF) to test painted surfaces in each sample location. XRF technology is a non-invasive, non-destructive means to determine presence of lead in paint, even in a painted surfaces several layers below the surface. Terracon has the expertise to also test surface dust, water, and bare soil for lead content.

Management Plans

Terracon prepares management plans that provide specific procedures for operating and working safely around ACBM and LBP. Commercial plans include O&M programs that explain how to protect a building's maintenance and housekeeping personnel, tenants, and occupants from exposure. Management plans also provide the basis for making informed decisions regarding potential long term economic liabilities associated with asbestos and LBP.

Abatement Planning and Monitoring

Terracon has extensive experience in preparing plans and specifications for remedial actions including enclosure, encapsulation, and partial or complete removal. Terracon can also provide trained and certified technicians for air sampling during the abatement process.

Brownfields and Site Redevelopment

Terracon has the knowledge and proven experience to combine re-construction with environmental remedy. We will assist you from the feasibility study through funding. Our assistance continues with siting, reconstruction/remedy, and post-construction services for risk management and monitoring institutional controls. Consulting "beyond the chemistry," Terracon provides our redevelopment clients with property-specific solutions at the pace required of business, not environmental regulation. Local governments or private developers desiring to capitalize on Brownfields programs as part of their redevelopment strategy can benefit from Terracon's award-winning private and public site re-development experience, including:

- Grant writing and management
- Public outreach
- EPA Brownfields plans
- Phase I and II site assessments
- Phase III cost-to-remedy analysis
- Electronic data management
- Institutional controls
- Strategic corrective action
- Environmental property management

Cultural Resources Management

As an additional benefit to our clients, Terracon offers cultural resource management in our scope of services. Terracon's archaeologists and historic preservation experts specialize in identification, survey, research, and evaluation. They provide comprehensive assessments and appropriate recommendations, while considering the budget and time constraints of the client.

Archaeological services include:

- Archaeological archival research
- Pedestrian surveys
- Phase I archaeological investigations
- Phase II archaeological investigations
- Artifact analysis
- Report preparation
- Site registration

Historic preservation services include:

- Historic structure surveys
- Design guidelines
- Development histories
- Architectural, history, and attrition analysis
- Heritage education
- Section 106 process
- National Register of Historic Places (NHRP) nominations
- Guidance for the establishment of a Certified Local Government (CLG) program

The cultural resource management staff has been a vital component of the Terracon service line since 2003. With specially trained staff in the areas of architectural and cultural history, as well as historic preservation, the cultural resource management group can shepherd clients through the maze of federal and state regulations to achieve an outcome that bridges the preservation requirements of national law and the business needs of our clients. Our investigations have spanned the southeastern United States in both rural and urban areas. In addition to full-scale archaeological and historic preservation surveys, we can assist clients with additional services such as publication production, public educational meetings, and presentations to civic organizations and neighborhood groups.

Floristic Surveys

Floristic surveys, conducted by Terracon scientists, provide a holistic approach to gathering floral data. By conducting floristic surveys, our clients are better able to make decisions regarding pre-development strategy, potential impacts or modifications of pristine locations, mitigation, monitoring strategy, defining restoration and rehabilitation goals, and defining areas of avoiding costly impacts.

Habitat Development and Fisheries Management

Terracon scientists and engineers can evaluate your proposed development and design water bodies beneficial, attractive, and economical to humans, wildlife, and fisheries. Terracon services include:

Aquatic Ecosystem Assessment

Terracon natural resource professionals will assess the flora, fauna, and physical and chemical characteristics of an existing water body and develop strategies to improve habitats and/or fisheries. At the same time, it will combat the existing problems associated with the water body and meet your project requirements.

Habitat Development

Terracon natural resource professionals can develop, improve, or mitigate wildlife and fisheries habitats such as playas, wetlands, riparian corridors, streams, ponds, and lakes.

Fisheries Management

Terracon scientists can design specific fisheries regimes including stocking and harvesting, population monitoring and control, and habitat evaluation for new water bodies or improving existing aquatic systems.

Sampling and Monitoring

Terracon natural resource professionals provide a variety of sampling and monitoring services to document the natural succession of newly developed, improving, or mitigation habitats and populations.

Lake Management

Terracon engineers and scientists provide stormwater management, erosion control engineering, water quality evaluation, shoreline protection engineering and bank stabilization, sedimentation control, dam and embankment design, watershed characterization, and many other services for lakes, ponds, and streams.

Environmental Health and Safety Training and Education

Terracon provides environmental health and safety training for client managers who must implement the requirements of these regulations. For this training, managers receive the benefit of Terracon's own experience implementing the regulations and assisting with compliance issues. Whenever possible,

Terracon also attempts to incorporate facility policies, operating procedures, processes, and pertinent site conditions into the training for correlation to the regulatory requirements. As part of Terracon's environmental health and safety regulation training, Terracon provides evaluations and issues certificates to document attendance and successful completion of the training. In some cases, hands-on exercises and drills are also included in training sessions to demonstrate that attendees have an understanding of the concepts and can apply the acquired information. Training and education services that Terracon routinely provides include:

- Spill Prevention Control and Countermeasures (SPCC) plans
- Storm Water Pollution Prevention Plans (SWPPP)
- Resource Conservation and Recovery Act (RCRA)
- Confined space entry
- Lockout tagout (LOTO)
- Emergency response (Hazardous Waste Operations and Emergency Response 8-Hour and 40-Hour)
- Hazard communication (HAZCOM)
- Powered industrial trucks (Forklifts)
- Asbestos awareness
- Respiratory protection
- Personal protective equipment (PPE)
- Mold
- Cranes, hoists, and slings
- Fall protection
- Laser safety
- Indoor air quality (IAQ)
- Heat stress
- Noise and hearing conservation
- Lab safety.

Industrial Hygiene Services

Terracon has vast experience performing workplace health and safety evaluations and project design and management for clients ranging from Fortune 500 companies to local small businesses in a wide range of market sectors, including power production, oil and gas exploration, manufacturing, petrochemical refining, healthcare, colleges and universities, railroads, mining, aviation, shipping, food production, and retail.

Workplace Health and Safety Evaluations

Terracon's nationwide staff of industrial hygiene (IH) professionals help our clients manage health and safety risks and regulatory compliance by performing workplace evaluations that pinpoint hazards and assess program effectiveness. From chemical exposure and hazardous noise, to asbestos, lead, and confined spaces, each member of Terracon's IH team is reliable, responsive, and resourceful – always striving to provide high-quality, cost-effective service.

Employee Exposure Assessments

Terracon's IH team provides a vast array of monitoring services to evaluate employee exposures and compliance with the Occupational Safety and Health Administration (OSHA), the Federal Railroad Administration (FRA), the Mining Safety and Health Administration (MSHA), and other industry organizations. We perform a variety of services that include:

- Sampling for hazardous substances such as asbestos, lead, mold, silica, welding fumes, formaldehyde, and solvent vapors
- U.S. Green Building Council LEED Credit Sampling
- Confined Space Evaluation and Monitoring
- Ventilation System Evaluation
- Industrial Noise Monitoring
- Ionizing and Non-ionizing Radiation Measurements

Indoor Environmental Quality Evaluations

Terracon's IH team has extensive experience analyzing non-industrial environments to identify factors that contribute to poor indoor environmental quality. We evaluate heating, ventilation, and air-conditioning systems and workplace atmospheres for common indicators of impaired air quality such as carbon dioxide, carbon monoxide, temperature, and humidity. Terracon also conducts air sampling for workplace chemicals, radon, and bio-aerosols such as dusts, mold, and rodent allergens.

Tab 6 – Additional Information

Asbestos and Lead Paint Inspections and Project Management

Terracon is the largest asbestos and lead paint service provider in the U.S. Our team of experienced, accredited inspectors and project managers perform inspections, evaluate compliance with applicable regulations, and recommend strategies to manage hazards during normal occupied operations or prior to renovation or demolition projects. Terracon's IH team has managed some of the largest asbestos and lead abatement projects ever performed. Our reputation with building owners and contractors as a turn-key, cost-effective project management firm sets us apart from our competition.

Invasive Species Management

Terracon's experts in terrestrial and aquatic ecology, ecological restoration, range management, and botany are experienced in identifying and developing control measures for invasive plant species. We work with land stewards and resource managers to identify the most reliable and cost-effective control measures. Because of our numerous offices located throughout the country, our staff is very familiar with hundreds of invasive plant species, which can enhance early identification and effective, proactive measures. Further, we have implemented a wide variety of control techniques based on site-specific conditions and plant tolerances. Techniques used have included cut and flooding, herbicide treatment, seasonal mowing, mulching, and root ball excavation. The benefits derived from invasive species control include improved range condition, increased habitat quality and diversity of native species, good public relations, and higher land values.

Many of our public and private clients who are responsible for managing and restoring large tracts of land request assistance with invasive species control. These efforts may be associated with cropland/rangeland yields, land stewardship plans, habitat restoration projects, or resource management plans. Terracon's team of restoration ecologists and botanists have the expertise and experience to prepare invasive species management plans and guide our clients through the necessary implementation and monitoring processes. Terracon's invasive species management services include:

- Design, implementation, and monitoring of ecological restoration projects, including associated soils, hydrology, and plant palette studies
- Floral inventories, including plant diversity assessments and surveys for invasive species
- Development of invasive species control plans
- All permitting related to pesticide and herbicide applications
- Implementation of invasive species control plans
- Habitat characterization and mapping
- Agency negotiations and consensus planning
- Public outreach and public relations

Residential/Commercial Lake Development

Terracon provides cost-effective best management practices (BMPs), such as native vegetative communities and bioengineering techniques. A well-designed storm water control structure not only controls erosion, but simultaneously addresses storm water treatment and water quality, wildlife and fisheries habitats, reduces maintenance, adds aesthetics, and increases the longevity of the pond or lake. By selecting bioengineering as the primary erosion control along the water's edge, rather than riprap or manicured grass, these water bodies can became a visual focal point, rather than just a storm water control structure. Terracon's water body related services include:

- Storm water management
- Erosion control engineering
- Water quality evaluation
- Shoreline protection engineering
- Geotechnical engineering
- Embankment and dam design
- Watershed characterization and management
- Sedimentation evaluation/control
- Slope stability analysis
- Wetland/riparian corridor development
- Dredging specifications/permitting
- Materials testing

Tab 6 – Additional Information

Leadership in Energy and Environmental Design (LEED)

Terracon can be a cost-effective resource to assist your project in obtaining LEED status. LEED promotes a "whole-building approach" to sustainability. The five areas of environmental and human health that LEED recognizes, include sustainable site development, water savings, energy efficiency, materials selection, and indoor environmental quality.

Mold and Indoor Air Quality Services

Terracon utilizes a multi-disciplinary approach to assess and address the root causes of Indoor air quality (IAQ) problems. Our industrial hygiene staff focuses on recognizing and evaluating potential hazards that can affect employees or occupants. We can also draw upon the expertise of our facilities engineering group to identify building deficiencies and operations that can indicate potential health concerns. Working together, these specialists can pursue the causes of complaints and provide practical recommendations to correct building-related IAQ problems. Indoor Air Quality and Building Related Services

- Site Investigation - Moisture content measurement
- Bio-sample Collection - Mold, fungi, bacteria, and other allergens
- Sampling of Airborne Chemicals and Particles
  - Formaldehyde
  - Carbon monoxide
  - Volatile organic compounds
  - Environmental tobacco smoke
- Forensic Investigations
- Air Quality Parameters
  - Temperature
  - Humidity
  - Carbon dioxide
- Property Condition Assessments
  - HVAC inspection and ventilation system evaluation
  - Roof assessments
- Mold Remediation Design, Oversight, and Air Monitoring
  - Clearance sampling

Natural Resources Management

Terracon's experts have a long history of providing industries, agencies, and municipalities with cost-effective strategies for repairing or compensating for ecosystem damages. These resource impacts are often the result of development activities, remedial actions, or environmental contamination. Our expertise in identifying the impacts and developing appropriate mitigation measures can also be used to prepare resource management plans for properties where long-term management is envisioned or for project sites after damages are repaired and new land uses are being considered. The benefits derived from conscientious resource stewardship include good public relations, higher land values, and improved cooperation from state and federal regulatory agencies.

Many of our industrial and corporate clients, as well as our public agency clients, need to close and transfer properties that they own or update existing resource management plans for those properties. Terracon's ecologists and environmental scientists have the expertise and experience to prepare resource management plans and guide our clients through the associated regulatory processes.

Terracon's natural resource management and planning services include:

- Design, implementation, and monitoring of ecological restoration projects, including associated soils, hydrology, and plant palette studies
- Wildlife corridor and movement analyses
- Floral and faunal inventories, including habitat assessments and surveys for sensitive species
- Preparation of National Environmental Policy Act (NEPA) screens, Environmental Impact Statements, and Environmental Assessments

- Habitat delineation and mapping, including wetlands delineation using the U.S. Army Corps of Engineers multi-parameter technique
- Habitat evaluation using federal Habitat Evaluation Procedures and the Wetland Evaluation Technique
- Clean Water Act 404 permitting, including jurisdictional determinations, mitigation planning, and 404(B)(1) alternatives analyses
- Federal Endangered Species Act permitting, including interagency Section 7 consultations, Biological assessments, Section 10 incidental take permits, habitat conservation plans, and all related NEPA documents
- Agency negotiations and consensus planning
- Trail and interpretive signage design
- Land stewardship plans, multi-species conservation plans, and ecotourism studies
- Public outreach and Web site development

Natural Resources and NEPA

Evaluating, identifying, and designing programs to minimize the impact of human activity on natural and cultural resources is the key to Terracon's natural resources program. Conservation of wildlife habitat, preserving archaeologically-significant sites, and protection of vegetation are the guiding concerns in considering opportunities and constraints in developing innovation solutions for environmentally sensitive areas.

To many, the requirements established under the National Environmental Policy Act (NEPA) present a formidable obstacle to their development projects. Our experience has shown that a carefully considered review of environmental concerns can provide an effective framework for both development and conservation of natural resources. We have assisted clients with natural resource management through the performance of multi-disciplined analyses, planning, and design projects.

NEPA Screens

These reports are prepared to determine if a project meets federal requirements for categorical exclusion. NEPA screens involve a review of site conditions and contacting appropriate state and federal agencies. Completion of this process results either in no further action or the recommendation of an environmental assessment or an environmental impact statement.

Environmental Assessments (EA)

An EA is prepared when the project does not meet the requirements for categorical exclusion and supports the project's NEPA compliance when an environmental impact statement is not required. The completion of the EA results in either a Finding of No Significant Impact (FONSI) or in a finding of further evaluation required by the lead federal agency.

Environmental Impact Statements (EIS)

These reports are prepared when the project has the potential to result in significant impacts on the human environment. Consideration is given to direct, indirect, and cumulative effects. The completion of the EIS results in a Record of Decision by the lead federal agency.

Endangered Species Surveys/Cultural and Archaeological Surveys

Our national resources professionals include biologists, archaeologists, and architectural historians with many years of experience in dealing with local, state, and federal agencies in the areas of permitting and regulatory compliance.

Remedial Design and Implementation

Recognized as a leader in the environmental industry, Terracon develops remedial solutions that give you a competitive advantage in your specific market. Our solutions, developed by experienced environmental professionals, combine proven engineering services with forward thinking and innovative technologies. Our ability to provide environmental engineering services for a wide variety of tasks ensures

strong technical support throughout all phases of the project. The results are cost-effective and timely solutions that balance economic resources and environmental challenges.

Corrective Action Plans

Remediation services typically require the development and implementation of a corrective action plan. The selected actions may require additional assessment, design of remedial systems, pilot testing, and life-cycle cost estimates.

Remedial System Design Development

Intent on helping clients reduce project costs and expedite site cleanup, Terracon develops bid documents and design specifications associated with subcontractor services for excavation, construction, operation, maintenance, and monitoring. We also have the experience to design and operate our own remedial systems including pump and treat systems, soil vapor extraction systems, and bioremediation systems.

Remedial Construction

Terracon constructs, performs system start-up, operates, and maintains remedial treatment systems ranging from bio-farming to solidification to air-desorption.

Remedial System O&M

Once a remedial system has been implemented, Terracon works with the client to maintain the system and keep it operating efficiently. This includes periodic sampling, monitoring, and maintenance activities.

Safety and Health Protocols

Terracon is committed to protecting the health and safety of its employees. Specific work tasks are regularly reviewed by the corporate health and safety director for its potential risk. We reduce the risk to on-site personnel through the use of direct reading instruments and integrated air sampling methods. This data is available for personal protection strategy on future activities.

Each Terracon project is evaluated for potential safety and health hazards. Where required by OSHA 29 CFR 1910.120 or when considered necessary by Terracon, a site-specific safety and health plan is prepared. Each safety and health plan identify personnel responsibilities for project safety and health and outlines the nature and extent of known chemical contaminants and potential safety hazards. Terracon safety plans specify the type and frequency of air monitoring to be employed and outline personal protective equipment to be utilized under specific site conditions. Individual project tasks are evaluated for potential safety and health hazards, and standard safe operating procedures are identified. Each safety and health plan specify personnel training and medical surveillance requirements, decontamination procedures, site control measures, communication and emergency provisions to be employed at the project site. Each Terracon project participant at-tends a briefing on the contents and requirements of the safety and health plan and signs an acknowledgment of instruction form prior to project initiation.

All Terracon employees participating in hazardous waste operations are enrolled in a medical surveil-lance program. The contents of Terracon baseline and annual medical examinations have been determined by Terracon medical consultants. Additional contaminant-specific health monitoring is also conducted if warranted by the con-centration and potential toxicological effects of site contaminants. Baseline examinations are per-formed before exposure to contaminated project sites, and each program participant is offered an exit examination upon termination or reassignment to job duties which no longer involve exposure to potentially hazardous substances.

All Terracon employees who engage in hazardous waste operations receive 40 hour safety and health training in accordance with OSHA 29 CFR 1910.120 (e) prior to initial job assignment. Annual refresher training tailored to Terracon operations, policies and procedures is also prepared and conducted annually. Additional training, such as first aid/CPR and loss control presentations are also provided to Terracon personnel engaging in hazardous waste operations.

Tab 6 – Additional Information

Soil Surveys

Terracon's soil scientists and professionals are trained to accurately identify soils in the field and laboratory. Terracon maintains a library of published soil surveys and accesses online soil surveys, where available. By correlating the soil types with the soil survey databases, Terracon is able to provide clients with a wide variety of information regarding their sites. The information can be used to supplement natural resource surveys or to assist with the planning and development of construction projects.

The use of soil surveys can be a powerful assessment and management tool. Soil surveys have been performed for numerous counties across the country by the United States Department of Agriculture, Soil Conservation Service (now Natural Resources Conservation Service, NRCS). The soil surveys have mapped the soil types, typically to depths of about five feet, and have been correlated to numerous physical and agronomical properties, which can be used to maximize crop yields, plan land use, identify optimal sites for construction, assess the soil properties relative to construction, and protect the environment. The soil survey may be performed in conjunction with natural resource surveys, to identify soils that are associated with specific plant communities or wildlife habitat.

Terracon's agronomists, engineers, biologists, and scientists are experienced in soils classification, which is routinely performed for all geotechnical engineering projects and many environmental engineering projects. Terracon personnel are trained to classify soils based on visual and tactual observations in the field, supported by physical classification tests performed in one of Terracon's many soil and construction materials laboratories. If needed, Terracon can arrange further chemical, petrographic, or agronomical properties at specialty subcontractor laboratories.
By accurately characterizing the soils at a site, Terracon can develop a wealth of information for our client's projects, including:

- Climatological conditions
- Characteristic plant communities
- Wildlife habitat potential and jurisdictional wetlands determination
- Crop yield and rangeland productivity
- Suitability for growth of wind-break trees
- Suitability for building development
- Suitability for sewage lagoons and absorption fields
- Suitability for use as construction material (topsoil, fill, aggregate)
- Engineering properties of soils
- Suitability for ponds, embankments, drainage, and irrigation
- Susceptibility to flooding

Preparation of natural resource plans and design of functional, cost-effective structures/developments requires a thorough understanding of local soil conditions. Terracon provides a wide range of services to support all phases of a project, from preliminary planning through completion of the construction.

Solid Waste Services

Terracon can help provide a solution to your solid waste management needs. Built upon 40 years of success and teamwork, Terracon offers a full array of consulting engineering services to municipalities, counties, and private entities involved in solid waste management. Our local expertise, paired with our national network of offices, can provide you with innovative and cost-effective solutions to meet all of your waste management needs. Terracon is unique in our landfill capabilities. Not only can we provide registered professionals to design the landfill, we can also provide geotechnical engineering, hydrogeologic, construction quality assurance, and construction materials testing services. As a result, we are able to assist clients through all phases of landfill development.

- Planning and Design Services
  - Planning and permitting
  - Comprehensive Subtitle D landfill design

- Alternative liner and cover system analysis
- Closure/post-closure plans
- ET cap feasibility analysis and design
- Groundwater monitoring plan design and implementation
- Methane monitoring and collection systems
- New Source Performance Standards (NSPS) compliance
- Leachate collection systems
- Operation plans, design narratives, and efficiency analysis

- Hydrogeological Services
  - Groundwater monitoring
  - Aquifer characterization
  - Groundwater computer modeling
  - Groundwater remedial system design
  - Contaminant fate and transport modeling
  - Risk assessments
  - Regulatory negotiations and liaison services
- Construction Quality Assurance Services
  - Preconstruction project organization
  - Subgrade preparation and soil liner placement oversight
  - Soil suitability testing and analysis
  - Soil liner permeability testing
  - * Geosynthetic installation oversight
  - * Certification report preparation

Stormwater Management

Terracon's engineers, hydrogeologists, and environmental scientists have the expertise and experience to help with stormwater drainage designs and guide our clients through the associated regulatory processes. Terracon's stormwater management and planning services include:

- Identify applicable BMPs based on potential pollutants, site activities, and physical constraints;
- Evaluate potential BMPs for active construction and post-construction municipal and industrial facilities, and considering economic feasibility, effectiveness, and cost;
- Implement, inspect, and determine effectiveness of BMPs;
- Prepare and evaluate existing source water protection plans;
- Prepare and update stormwater pollution prevention plans and soil erosion and sedimentation control plans;
- Prepare watershed management plans;
- Evaluate stormwater drainage designs;
- National Pollutant Discharge Elimination System (NPDES) permitting, including Municipal Separate Stormwater (MS4) communities, construction stormwater, domestic wastewater, industrial wastewater, industrial stormwater (including certifications for facilities that have no exposure); non-contact cooling water; and excavation de-watering;
- Storm Event Monitoring;
- Evaluate and design graywater reuse;
- Agency negotiations and consensus planning; and
- Public outreach and website development.

Wetland Delineation and Mitigation

Terracon offers a full range of wetland services, from the initial wetland determination to developing a wetland mitigation plan and submitting a permit application to the U.S. Army Corps of Engineers (USACE). In order to achieve the project goals, we work closely with the client and the USACE to determine optimal use of the property, while taking into consideration existing wetlands and proposed mitigation areas.

Tab 6 – Additional Information

Wetlands are generally identified during an initial determination. The proposed project plans are reviewed and wetland delineation is performed to determine the amount of wetlands that will be impacted. Our wetland experts will visit your site to evaluate whether the three essential characteristics of a wetland are present: hydrophytic vegetation, hydric soils, and wetland hydrology. Furthermore, Terracon will provide a professional opinion regarding the jurisdictional status of observed wetlands and waters. Terracon will additionally outline future action items for the client to obtain regulatory concurrence, including requesting an Approved Jurisdictional Determination (AJD), requesting a Preliminary Jurisdictional Determination (PJD), and/or applying for a Department of the Army permit. Terracon can assist the client in submitting a nationwide permit (for impacts less than 0.5 acres) or an individual 404 Permit (for impacts greater than 0.5 acres).

The permit application includes proposed mitigation measures, if required, representing no net loss of wetlands and waters in accordance with the USACE Final Mitigation Rule (33 CFR Parts 325 and 332). When possible, Terracon will coordinate the pricing and purchasing of wetland and/or stream credits from a USACE-approved mitigation bank after performing the appropriate functional assessment. If required, Terracon will design an appropriate mitigation area and will perform mitigation monitoring that will complement the project while satisfying USACE guidelines. Following permit submittal, Terracon provides follow-up consultation with USACE and the client to help facilitate permit approval and implementation.

Wetland Services

- Threatened and endangered species studies
- Natural resource management plans
- Preliminary wetland assessments
- Wetland delineation
- Constructed wetlands and mitigation design
- Wetland mitigation banking
- Permit application preparation
- Wetland construction specifications and contract documents
- Annual wetland monitoring.

Environmental Assessment of District's Land

Terracon

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RESPONSIVE.
RESOURCEFUL.
RELIABLE.

	CRITERIA	Weight Factor	Score	Total
1	**Firm's and subcontractors' capabilities to conduct work as presented in the Statement of Work** a) Knowledge of current ASTM E-1527 standard for conducting Environmental Site Assessments. Knowledge of EPA All Appropriate Inquiry Rule (40 CFR Part 312). b) Experience conducting Phase I ESA on large parcels of land (greater than 300 acres). c) Experience using Global Positioning System (GPS) and mapping in Universal Transverse Mercator (UTM) coordinate system utilizing the North American Datum of 1983 (NAD83) based upon the High Accuracy Reference Networks (HARN) surveys with units in meters. d) Experience performing environmental sampling in accordance with FDEP Standard Operating Procedures (SOPs). e) Equipment list.	0.20	9	1.80
2	**Qualifications, work histories, and abilities of Respondent's and subcontractors' proposed key personnel that will be assigned to this project (i.e.):** a) Organization profile and proposed project management. b) Specific names and functions of personnel, i.e. Project Manager and staff, assigned to the project and their work locations. c) Evidence of current professional status of personnel (licensing, certifications, etc.) including Professional Engineer (PE) and Professional Geologist (PG), and a licensed PE with experience preparing remedial action plans and certifying remedial action reports. Professional Engineers seeking to provide services shall be certified under Section 287.055, Fla. Stat., to practice or to offer to practice engineering. d) Background, education, and experience in environmental site assessments and sampling techniques. Experience in sampling of surface water, groundwater, soil, and sediment, installation of temporary and permanent wells in accordance with FDEP SOPs. e) Qualifications as an environmental professional as specified in EPA's All Appropriate Inquiry Rule. f) Availability of proposed key personnel to work on this contract. g) Communication skills and accessibility by E-mail. h) GPS and GIS skills. i) Provide resumes that specifically outline the qualifications and work histories of key personnel. j) List three similar projects, for which your firm has successfully completed that are most related to the type of work required under this solicitation. In determining which projects are most related, consider size and complexity; how many members of the proposed team worked on those projects; and how recently the projects were completed/started.	0.35	9	3.15

3	**Past and/or present experience on projects of this type** a) Past or present experience of the firm and proposed key project personnel on projects of the type listed in the Statement of Work. b) Provide three client references for similar projects sucessfully completed during the past three years.	0.25	9	2.25
4	**Location of managing firm/project manager relative to the geographic centroid of the District** Higher consideration will be given to firms whose managing firm/project manager is located nearest to the geographic centroid of the District (Deleon Springs State Park, 601 Ponce Deleon Blvd., Deleon Springs, Florida. The website MapQuest.com (using the "Shortest" route type) should be utilized to determine mileage. The District will award points as follows: 0-100 miles 10 points >100 ≤200 miles 7 points >200 0 points	0.10	10.00	1.00
5	**Volume of District work previously awarded to Respondent** The District will use its financial records to determine the volume of work (in dollars) awardedby the District using the total amount paid to Respondent during the past 36 months, including contracts, work orders, and purchase orders. Points will be allocated from 0 to 10 for Respondents with higher previous paid amount totals during the 36-month period immediately preceding the Submittal date of this RFQ, receiving fewer award points. Respondents with no previous payments may receive the highest allocation of points (10), while the Respondent with the highest previous paid amount will receive zero points. Checks issued by the District on or prior to the date submittals are received shall be included in this total even if Respondent has not yet received the payment. The formula for allocation of previous work award points will be calculated as follows: The Respondent with the highest total of previous work awarded represents the Allocation Basis Total (ABT); then, the ABT less the Previous Work Awarded divided by the ABT will be multiplied by 10 (the highest number of points awarded); the result will be rounded to tenths of a point.	0.10	4.21	0.42
	TOTAL	1.00		8.62

Evaluation Rating Scale - 1 through 10:
More than adequate…….. 8 - 10
Adequate……..…… 5 - 7
Less than adequate……..…….. 1 - 4
Not covered in submittal……..…….. 0

Donald Lee

	CRITERIA	Weight Factor	Score	Total
1	**Firm's and subcontractors' capabilities to conduct work as presented in the Statement of Work**	0.20	10	2.00
	a) Knowledge of current ASTM E-1527 standard for conducting Environmental Site Assessments. Knowledge of EPA All Appropriate Inquiry Rule (40 CFR Part 312). b) Experience conducting Phase I ESA on large parcels of land (greater than 300 acres). c) Experience using Global Positioning System (GPS) and mapping in Universal Transverse Mercator (UTM) coordinate system utilizing the North American Datum of 1983 (NAD83) based upon the High Accuracy Reference Networks (HARN) surveys with units in meters. d) Experience performing environmental sampling in accordance with FDEP Standard Operating Procedures (SOPs). e) Equipment list.			
2	**Qualifications, work histories, and abilities of Respondent's and subcontractors' proposed key personnel that will be assigned to this project (i.e.):**	0.35	10	3.50
	a) Organization profile and proposed project management. b) Specific names and functions of personnel, i.e. Project Manager and staff, assigned to the project and their work locations. c) Evidence of current professional status of personnel (licensing, certifications, etc.) including Professional Engineer (PE) and Professional Geologist (PG), and a licensed PE with experience preparing remedial action plans and certifying remedial action reports. Professional Engineers seeking to provide services shall be certified under Section 287.055, Fla. Stat., to practice or to offer to practice engineering. d) Background, education, and experience in environmental site assessments and sampling techniques. Experience in sampling of surface water, groundwater, soil, and sediment, installation of temporary and permanent wells in accordance with FDEP SOPs. e) Qualifications as an environmental professional as specified in EPA's All Appropriate Inquiry Rule. f) Availability of proposed key personnel to work on this contract. g) Communication skills and accessibility by E-mail. h) GPS and GIS skills. i) Provide resumes that specifically outline the qualifications and work histories of key personnel. j) List three similar projects, for which your firm has successfully completed that are most related to the type of work required under this solicitation. In determining which projects are most related, consider size and complexity; how many members of the proposed team worked on those projects; and how recently the projects were completed/started.			

3	**Past and/or present experience on projects of this type** a) Past or present experience of the firm and proposed key project personnel on projects of the type listed in the Statement of Work. b) Provide three client references for similar projects sucessfully completed during the past three years.	0.25	9	2.25
4	**Location of managing firm/project manager relative to the geographic centroid of the District** Higher consideration will be given to firms whose managing firm/project manager is located nearest to the geographic centroid of the District (Deleon Springs State Park, 601 Ponce Deleon Blvd., Deleon Springs, Florida. The website MapQuest.com (using the "Shortest" route type) should be utilized to determine mileage. The District will award points as follows: 0-100 miles 10 points >100 ≤200 miles 7 points >200 0 points	0.10	10.00	1.00
5	**Volume of District work previously awarded to Respondent** The District will use its financial records to determine the volume of work (in dollars) awardedby the District using the total amount paid to Respondent during the past 36 months, including contracts, work orders, and purchase orders. Points will be allocated from 0 to 10 for Respondents with higher previous paid amount totals during the 36-month period immediately preceding the Submittal date of this RFQ, receiving fewer award points. Respondents with no previous payments may receive the highest allocation of points (10), while the Respondent with the highest previous paid amount will receive zero points. Checks issued by the District on or prior to the date submittals are received shall be included in this total even if Respondent has not yet received the payment. The formula for allocation of previous work award points will be calculated as follows: The Respondent with the highest total of previous work awarded represents the Allocation Basis Total (ABT); then, the ABT less the Previous Work Awarded divided by the ABT will be multiplied by 10 (the highest number of points awarded); the result will be rounded to tenths of a point.	0.10	4.21	0.42
	TOTAL	1.00		9.17

Evaluation Rating Scale - 1 through 10:
More than adequate…….. 8 - 10
Adequate……..…… 5 - 7
Less than adequate……..…….. 1 - 4
Not covered in submittal……..…….. 0

Carey Maxwell

	CRITERIA	Weight Factor	Score	Total
1	**Firm's and subcontractors' capabilities to conduct work as presented in the Statement of Work** a) Knowledge of current ASTM E-1527 standard for conducting Environmental Site Assessments. Knowledge of EPA All Appropriate Inquiry Rule (40 CFR Part 312). b) Experience conducting Phase I ESA on large parcels of land (greater than 300 acres). c) Experience using Global Positioning System (GPS) and mapping in Universal Transverse Mercator (UTM) coordinate system utilizing the North American Datum of 1983 (NAD83) based upon the High Accuracy Reference Networks (HARN) surveys with units in meters. d) Experience performing environmental sampling in accordance with FDEP Standard Operating Procedures (SOPs). e) Equipment list.	0.20	10	2.00
2	**Qualifications, work histories, and abilities of Respondent's and subcontractors' proposed key personnel that will be assigned to this project (i.e.):** a) Organization profile and proposed project management. b) Specific names and functions of personnel, i.e. Project Manager and staff, assigned to the project and their work locations. c) Evidence of current professional status of personnel (licensing, certifications, etc.) including Professional Engineer (PE) and Professional Geologist (PG), and a licensed PE with experience preparing remedial action plans and certifying remedial action reports. Professional Engineers seeking to provide services shall be certified under Section 287.055, Fla. Stat., to practice or to offer to practice engineering. d) Background, education, and experience in environmental site assessments and sampling techniques. Experience in sampling of surface water, groundwater, soil, and sediment, installation of temporary and permanent wells in accordance with FDEP SOPs. e) Qualifications as an environmental professional as specified in EPA's All Appropriate Inquiry Rule. f) Availability of proposed key personnel to work on this contract. g) Communication skills and accessibility by E-mail. h) GPS and GIS skills. i) Provide resumes that specifically outline the qualifications and work histories of key personnel. j) List three similar projects, for which your firm has successfully completed that are most related to the type of work required under this solicitation. In determining which projects are most related, consider size and complexity; how many members of the proposed team worked on those projects; and how recently the projects were completed/started.	0.35	10	3.50

3	**Past and/or present experience on projects of this type** a) Past or present experience of the firm and proposed key project personnel on projects of the type listed in the Statement of Work. b) Provide three client references for similar projects sucessfully completed during the past three years.	0.25	9	2.25
4	**Location of managing firm/project manager relative to the geographic centroid of the District** Higher consideration will be given to firms whose managing firm/project manager is located nearest to the geographic centroid of the District (Deleon Springs State Park, 601 Ponce Deleon Blvd., Deleon Springs, Florida. The website MapQuest.com (using the "Shortest" route type) should be utilized to determine mileage. The District will award points as follows: 0-100 miles 10 points >100 ≤200 miles 7 points >200 0 points	0.10	10.00	1.00
5	**Volume of District work previously awarded to Respondent** The District will use its financial records to determine the volume of work (in dollars) awardedby the District using the total amount paid to Respondent during the past 36 months, including contracts, work orders, and purchase orders. Points will be allocated from 0 to 10 for Respondents with higher previous paid amount totals during the 36-month period immediately preceding the Submittal date of this RFQ, receiving fewer award points. Respondents with no previous payments may receive the highest allocation of points (10), while the Respondent with the highest previous paid amount will receive zero points. Checks issued by the District on or prior to the date submittals are received shall be included in this total even if Respondent has not yet received the payment. The formula for allocation of previous work award points will be calculated as follows: The Respondent with the highest total of previous work awarded represents the Allocation Basis Total (ABT); then, the ABT less the Previous Work Awarded divided by the ABT will be multiplied by 10 (the highest number of points awarded); the result will be rounded to tenths of a point.	0.10	4.21	0.42
	TOTAL	1.00		9.17

Evaluation Rating Scale - 1 through 10:
More than adequate…….. 8 - 10
Adequate……..…… 5 - 7
Less than adequate……..….. 1 - 4
Not covered in submittal……..….. 0

Jamal White

	CRITERIA	Weight Factor	Score	Total
1	**Firm's and subcontractors' capabilities to conduct work as presented in the Statement of Work**	0.20	9	1.80
	a) Knowledge of current ASTM E-1527 standard for conducting Environmental Site Assessments. Knowledge of EPA All Appropriate Inquiry Rule (40 CFR Part 312). b) Experience conducting Phase I ESA on large parcels of land (greater than 300 acres). c) Experience using Global Positioning System (GPS) and mapping in Universal Transverse Mercator (UTM) coordinate system utilizing the North American Datum of 1983 (NAD83) based upon the High Accuracy Reference Networks (HARN) surveys with units in meters. d) Experience performing environmental sampling in accordance with FDEP Standard Operating Procedures (SOPs). e) Equipment list.			
2	**Qualifications, work histories, and abilities of Respondent's and subcontractors' proposed key personnel that will be assigned to this project (i.e.):**	0.35	9	3.15
	a) Organization profile and proposed project management. b) Specific names and functions of personnel, i.e. Project Manager and staff, assigned to the project and their work locations. c) Evidence of current professional status of personnel (licensing, certifications, etc.) including Professional Engineer (PE) and Professional Geologist (PG), and a licensed PE with experience preparing remedial action plans and certifying remedial action reports. Professional Engineers seeking to provide services shall be certified under Section 287.055, Fla. Stat., to practice or to offer to practice engineering. d) Background, education, and experience in environmental site assessments and sampling techniques. Experience in sampling of surface water, groundwater, soil, and sediment, installation of temporary and permanent wells in accordance with FDEP SOPs. e) Qualifications as an environmental professional as specified in EPA's All Appropriate Inquiry Rule. f) Availability of proposed key personnel to work on this contract. g) Communication skills and accessibility by E-mail. h) GPS and GIS skills. i) Provide resumes that specifically outline the qualifications and work histories of key personnel. j) List three similar projects, for which your firm has successfully completed that are most related to the type of work required under this solicitation. In determining which projects are most related, consider size and complexity; how many members of the proposed team worked on those projects; and how recently the projects were completed/started.			

3	**Past and/or present experience on projects of this type** a) Past or present experience of the firm and proposed key project personnel on projects of the type listed in the Statement of Work. b) Provide three client references for similar projects sucessfully completed during the past three years.	0.25	9	2.25
4	**Location of managing firm/project manager relative to the geographic centroid of the District** Higher consideration will be given to firms whose managing firm/project manager is located nearest to the geographic centroid of the District (Deleon Springs State Park, 601 Ponce Deleon Blvd., Deleon Springs, Florida. The website MapQuest.com (using the "Shortest" route type) should be utilized to determine mileage. The District will award points as follows: 0-100 miles 10 points >100 ≤200 miles 7 points >200 0 points	0.10	10.00	1.00
5	**Volume of District work previously awarded to Respondent** The District will use its financial records to determine the volume of work (in dollars) awardedby the District using the total amount paid to Respondent during the past 36 months, including contracts, work orders, and purchase orders. Points will be allocated from 0 to 10 for Respondents with higher previous paid amount totals during the 36-month period immediately preceding the Submittal date of this RFQ, receiving fewer award points. Respondents with no previous payments may receive the highest allocation of points (10), while the Respondent with the highest previous paid amount will receive zero points. Checks issued by the District on or prior to the date submittals are received shall be included in this total even if Respondent has not yet received the payment. The formula for allocation of previous work award points will be calculated as follows: The Respondent with the highest total of previous work awarded represents the Allocation Basis Total (ABT); then, the ABT less the Previous Work Awarded divided by the ABT will be multiplied by 10 (the highest number of points awarded); the result will be rounded to tenths of a point.	0.10	9.47	0.95
	TOTAL	1.00		9.15

Evaluation Rating Scale - 1 through 10:
More than adequate…….. 8 - 10
Adequate……..…… 5 - 7
Less than adequate……..…….. 1 - 4
Not covered in submittal……..…….. 0

Donald Lee

	CRITERIA	Weight Factor	Score	Total
1	**Firm's and subcontractors' capabilities to conduct work as presented in the Statement of Work** a) Knowledge of current ASTM E-1527 standard for conducting Environmental Site Assessments. Knowledge of EPA All Appropriate Inquiry Rule (40 CFR Part 312). b) Experience conducting Phase I ESA on large parcels of land (greater than 300 acres). c) Experience using Global Positioning System (GPS) and mapping in Universal Transverse Mercator (UTM) coordinate system utilizing the North American Datum of 1983 (NAD83) based upon the High Accuracy Reference Networks (HARN) surveys with units in meters. d) Experience performing environmental sampling in accordance with FDEP Standard Operating Procedures (SOPs). e) Equipment list.	0.20	8	1.60
2	**Qualifications, work histories, and abilities of Respondent's and subcontractors' proposed key personnel that will be assigned to this project (i.e.):** a) Organization profile and proposed project management. b) Specific names and functions of personnel, i.e. Project Manager and staff, assigned to the project and their work locations. c) Evidence of current professional status of personnel (licensing, certifications, etc.) including Professional Engineer (PE) and Professional Geologist (PG), and a licensed PE with experience preparing remedial action plans and certifying remedial action reports. Professional Engineers seeking to provide services shall be certified under Section 287.055, Fla. Stat., to practice or to offer to practice engineering. d) Background, education, and experience in environmental site assessments and sampling techniques. Experience in sampling of surface water, groundwater, soil, and sediment, installation of temporary and permanent wells in accordance with FDEP SOPs. e) Qualifications as an environmental professional as specified in EPA's All Appropriate Inquiry Rule. f) Availability of proposed key personnel to work on this contract. g) Communication skills and accessibility by E-mail. h) GPS and GIS skills. i) Provide resumes that specifically outline the qualifications and work histories of key personnel. j) List three similar projects, for which your firm has successfully completed that are most related to the type of work required under this solicitation. In determining which projects are most related, consider size and complexity; how many members of the proposed team worked on those projects; and how recently the projects were completed/started.	0.35	7	2.45

3	**Past and/or present experience on projects of this type** a) Past or present experience of the firm and proposed key project personnel on projects of the type listed in the Statement of Work. b) Provide three client references for similar projects sucessfully completed during the past three years.	0.25	8	2.00
4	**Location of managing firm/project manager relative to the geographic centroid of the District** Higher consideration will be given to firms whose managing firm/project manager is located nearest to the geographic centroid of the District (Deleon Springs State Park, 601 Ponce Deleon Blvd., Deleon Springs, Florida. The website MapQuest.com (using the "Shortest" route type) should be utilized to determine mileage. The District will award points as follows: 0-100 miles 10 points >100 ≤200 miles 7 points >200 0 points	0.10	10.00	1.00
5	**Volume of District work previously awarded to Respondent** The District will use its financial records to determine the volume of work (in dollars) awardedby the District using the total amount paid to Respondent during the past 36 months, including contracts, work orders, and purchase orders. Points will be allocated from 0 to 10 for Respondents with higher previous paid amount totals during the 36-month period immediately preceding the Submittal date of this RFQ, receiving fewer award points. Respondents with no previous payments may receive the highest allocation of points (10), while the Respondent with the highest previous paid amount will receive zero points. Checks issued by the District on or prior to the date submittals are received shall be included in this total even if Respondent has not yet received the payment. The formula for allocation of previous work award points will be calculated as follows: The Respondent with the highest total of previous work awarded represents the Allocation Basis Total (ABT); then, the ABT less the Previous Work Awarded divided by the ABT will be multiplied by 10 (the highest number of points awarded); the result will be rounded to tenths of a point.	0.10	9.47	0.95
	TOTAL	1.00		8.00

Evaluation Rating Scale - 1 through 10:
More than adequate…….. 8 - 10
Adequate……..…… 5 - 7
Less than adequate……..…….. 1 - 4
Not covered in submittal……..…….. 0

Carey Maxwell

	CRITERIA	Weight Factor	Score	Total
1	**Firm's and subcontractors' capabilities to conduct work as presented in the Statement of Work**	0.20	9	1.80
	a) Knowledge of current ASTM E-1527 standard for conducting Environmental Site Assessments. Knowledge of EPA All Appropriate Inquiry Rule (40 CFR Part 312). b) Experience conducting Phase I ESA on large parcels of land (greater than 300 acres). c) Experience using Global Positioning System (GPS) and mapping in Universal Transverse Mercator (UTM) coordinate system utilizing the North American Datum of 1983 (NAD83) based upon the High Accuracy Reference Networks (HARN) surveys with units in meters. d) Experience performing environmental sampling in accordance with FDEP Standard Operating Procedures (SOPs). e) Equipment list.			
2	**Qualifications, work histories, and abilities of Respondent's and subcontractors' proposed key personnel that will be assigned to this project (i.e.):**	0.35	9	3.15
	a) Organization profile and proposed project management. b) Specific names and functions of personnel, i.e. Project Manager and staff, assigned to the project and their work locations. c) Evidence of current professional status of personnel (licensing, certifications, etc.) including Professional Engineer (PE) and Professional Geologist (PG), and a licensed PE with experience preparing remedial action plans and certifying remedial action reports. Professional Engineers seeking to provide services shall be certified under Section 287.055, Fla. Stat., to practice or to offer to practice engineering. d) Background, education, and experience in environmental site assessments and sampling techniques. Experience in sampling of surface water, groundwater, soil, and sediment, installation of temporary and permanent wells in accordance with FDEP SOPs. e) Qualifications as an environmental professional as specified in EPA's All Appropriate Inquiry Rule. f) Availability of proposed key personnel to work on this contract. g) Communication skills and accessibility by E-mail. h) GPS and GIS skills. i) Provide resumes that specifically outline the qualifications and work histories of key personnel. j) List three similar projects, for which your firm has successfully completed that are most related to the type of work required under this solicitation. In determining which projects are most related, consider size and complexity; how many members of the proposed team worked on those projects; and how recently the projects were completed/started.			

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4	**Location of managing firm/project manager relative to the geographic centroid of the District** Higher consideration will be given to firms whose managing firm/project manager is located nearest to the geographic centroid of the District (Deleon Springs State Park, 601 Ponce Deleon Blvd., Deleon Springs, Florida. The website MapQuest.com (using the "Shortest" route type) should be utilized to determine mileage. The District will award points as follows: 0-100 miles 10 points >100 ≤200 miles 7 points >200 0 points	0.10	10.00	1.00
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	TOTAL	1.00		9.15

Evaluation Rating Scale - 1 through 10:
More than adequate…….. 8 - 10
Adequate……..…… 5 - 7
Less than adequate……..…….. 1 - 4
Not covered in submittal……..…….. 0

Jamal White