Geotechnical Data Collection and Sediment Sampling
Technical Proposal

Proposed University Lakes Project
Baton Rouge, Louisiana
Premier File No.: 20-0332

Prepared for:

University Lakes, LLC
c/o LSU Real Estate and Facilities Foundation ("REEF")

Prepared by:

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Brenda Nova, MSCE, P.E.
Project Manager

Mike Juneau, P.E., MBA
President

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Signed *Schedule C – CERTIFICATION STATEMENT*

ORGANIZATION BACKGROUND AND OVERVIEW

Founded in 2018, Premier Geotech and Testing, LLC (Premier) is a **Small Business Hudson Initiative** firm that provides geotechnical engineering and construction materials testing throughout Louisiana on government, industrial, commercial, residential and aviation projects. Premier has corporate office is located in Baton Rouge, Louisiana. Initially focused on providing innovative solutions to unusual foundation and road problems, our growth has expanded into virtually every aspect of geotechnical engineering and construction materials testing. Premier has gained the confidence of clients across southeast Louisiana and has set a path for the company's continued growth and excellence. Having a wide range of expertise with a multi-disciplined staff gives Premier an advantage in the geotechnical engineering and construction inspection marketplace.

Premier is dedicated to serving clients by providing technical excellence on all our geotechnical projects. Our team members are currently supporting local parish entities on their road rehabilitation programs and projects as well as submerged road programs for several of the surrounding parishes.

Why the Premier Team

The Premier team has been explicitly created for and is focused on supporting the design teams' geotechnical needs in fulfilling its mission based on the University Lakes Project. With professionals living and working within East Baton Rouge Parish, and significant work experience within the metropolitan boundaries, we have an intimate understanding of all the geotechnical, testing, and inspection issues that will be associated with this project.

The Premier Team's benefits to the University Lakes Project Team:

1. Unique, seasoned geotechnical organization having performed geotechnical and inspection projects thought the project area and for the USACE New Orleans District and Louisiana Coastal Protection and Restoration Authority (CPRA).
2. Unique and relevant geotechnical experience on similar projects – geotechnical exploration and testing, analyses and design, material testing, and inspection of major flood control and dredging components including the recent FEMA bank stabilization and rehabilitation projects, HSDRRS levee lifts prior to armoring, surge barriers Pump Stations design and oversight, Drainage canals geotechnical design and oversight.
3. Successful history working with multiple state and federal entities including SLFPA-E, CPRA and USACE-MVN.
4. In-depth knowledge of local subsurface conditions and geology.
5. Unmatched understanding of geotechnical federal and state standards.

The Premier team members have a history of working together on high profile flood risk reduction, dredging and restoration projects. Premier is committed to working together with the design team and providing value–added services to our clients.

The Premier Team was built precisely to respond to the scope of services outlined in the University Lake System RFP:

- Conduct geotechnical field investigations and data collection;
- Laboratory testing of soil samples and preparation of boing logs, geologic profiles, soil strength profiles, etc.;
- Analysis and design of embankment and foundation elements of flood control and shoreline restoration projects;
- Preparation of comprehensive Geotechnical reports including data, engineering analyses, foundation design recommendations, etc.
- Coordination with construction contractors or other engineering consultants under contract.
- Attend committee and board meetings.

Geotechnical Engineering Capabilities

Premier's geotechnical engineering group has extensive experience throughout Baton Rouge and surrounding cities. Premier prides itself not only on providing high quality engineering design services but providing practical and realistic engineering designs with a high level of effective communication with our clients. Premier's geotechnical engineering group is extremely hands-on and very sensitive to our clients' needs and desires. The following are some of the engineering design services Premier offers:

- Excavations and dewatering design and considerations
- Design parameters for Dredging Operations
- Slope stability analysis for bank stabilization and/or rehabilitation
- Bank/slope armament recommendations utilizing geotextiles, riprap or articulating concrete mats
- Below-grade retaining wall design and considerations
- Shallow and deep foundation system design and construction considerations
- LRFD and ASD deep foundation design for bridges
- Rigid and flexible pavement design/rehabilitation recommendations per AASHTO and LPA Manual and soil stabilization techniques using lime, fly ash, and/or cement
- Specification review and consulting
- Site preparation recommendations and considerations
- Value Engineering (VE) services
- High strain dynamic (PDA) testing of deep foundations
- Low Strain Non-Destructive Sonic Echo/Impulse Response Pile Integrity Testing

Subsurface Exploration Capabilities

Led by William "Happy" Wallace, Premier's team of drillers have over 20 years of experience. Experience ranges from developing and implementing traffic control plans to angle drilling through levees for the US Army Corps of Engineers.

Premier has a robust fleet of drilling equipment. The versatility of our equipment allows us to drill and sample soil borings across all environments found in Louisiana. This allows the Premier team to meet all the project needs and exceed your expectations.

Below is a list of Premier's stout fleet of subsurface exploration equipment:

- CME 45C – truck-mounted and trailer-mounted drill
- CME 45C – marshbuggy and airboat-mounted
- Barge Mounted (35'x10', Shallow Draft 12"-18")
- Ardco Top Drive – rubber tire atv-mounted drill rig
- Ardco Top Drive – truck-mounted drill rig
- Ardco Limited Access Top Drive – trailer or skid mounted rig

All drilling rigs have the ability to drill with flight augers, hollow-stem augers or wet-rotary methods. Our drillers have more than 20 years of experience in sampling as well as monitoring well installations to depths over 200 feet, including multi-case wells.

Laboratory Testing Capabilities

Premier's laboratory is equipped with State-of-the-Art geotechnical and construction materials testing equipment. All testing equipment is located and performed at Premier's Baton Rouge office located at 9434 Interline Avenue, Baton Rouge, La. The laboratory is completely outfitted to perform ASTM and AASHTO testing of soils, concrete, asphalt and metals. Our laboratory is accredited by American Association of State Highway Transportation Officials (AASHTO), US Army Corps of Engineers Validated, and in the process of obtaining accreditation by Louisiana Department of Environmental Quality (LDEQ). Premier has requested and is in the process of obtaining accreditation to perform *ASTM D2435 Standard Test Methods for One-Dimensional Consolidation Properties of Soil Using Incremental Loading* during AASHTO's next scheduled rotation.

Premier's laboratory includes GeoJac loading devices for triaxial compression testing (UU), two hydraulic panels for backpressure saturation and triaxial consolidation, four flexible wall triaxial chambers, and miscellaneous apparatuses for conducting routine classification and index tests.

Automated data collection and reduction systems are utilized for compression and consolidation tests. Mr. Martin Planche, Manager of Premier's laboratory, has more than 11 years of experience in the geotechnical and construction materials testing industry.

Laboratory Testing Equipment

Premier has GeoJac Digital Load Actuators for automated testing, T100000 series Triaxial Cell system for measuring strength in cylindrical soil specimens, and M100000 Standard Panel for permeability and triaxial testing. The GeoJac Digital Load Actuators are part of an advanced line of automated testing systems. These systems are lightweight and have a load capacity of 2000 pounds and a 1.5-inch stroke. These actuators can meet a wide variety of testing needs for unconfined compression, triaxial and consolidation tests.

Used as a basis for most other triaxial cells, the Triaxial Cell measures strength of cylindrical soil specimens. Features include double drainage at sample ends; flow-through valves, tubing and fittings, linear ball bushings, and removable endcaps. The Standard Panel M100000 is an air-operated pressure control panel for permeability and triaxial testing. It consists of a control section and three different pressure positions.

Types of more common tests performed in Premier's laboratory include Triaxial compression tests with pore pressure measurements, soil moisture test, soil density tests, California Bearing Ratio tests, unconfined compression tests, permeability tests, soil suction tests, standard and modified proctor compaction tests, Atterberg limits tests, sieve analysis tests, hydrometer tests, moisture content tests, dry density tests, shrinkage limit tests, and specific gravity tests. Premier also has additional in-house soil, aggregate and concrete testing equipment, such as a fully automated concrete compression machine.

Engineering Analyses and Final Reporting

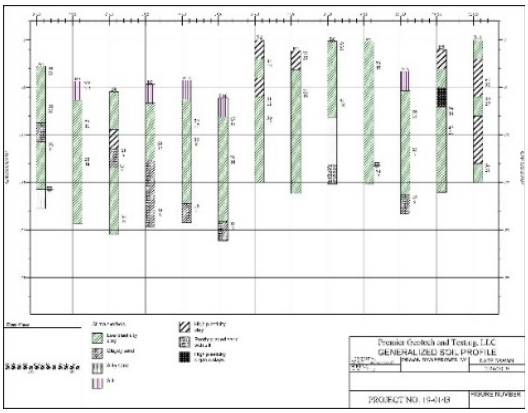
Our team's geotechnical engineering and geologic experience includes, but is not limited to slope/global stability analyses, cantilevered, anchored, and braced sheet pile analyses, pile and drilled shaft foundation design per LRFD design requirements, pile downdrag analysis, ground water studies, axial and lateral loads in piles, shallow bearing capacity and shear strength determinations, retaining and flood wall analyses, temporary retaining structures and excavations, drainage structures; permeability, dewatering design, settlement and staged construction analyses, heave and lateral spread analyses, static and dynamic pile load testing, soil and rock characterization, construction phasing and sequencing, lightweight fill, ground improvement and stabilization, and geotextiles.

The Premier Team utilizes the latest geotechnical design and geotechnical support software including numerical modeling (i.e., finite element and finite difference software).

Geotechnical software experience includes: gINT, Geosystems, DRIVEN, GRLWEAP, LPILE, APILE, GROUP, SHAFT, PaveXpress, Metafield, and proprietary spreadsheets.

Premier is fully capable of preparing and submitting geotechnical investigation reports including:

1. Subsurface soil profile sheets;
2. Graphical boring logs showing soil stratigraphy and laboratory tests performed;
3. Geotechnical Engineering recommendations pertaining to:
    a. Slope stability analysis
    b. Detailed settlement analysis of dredged material
    c. Shoreline restoration design
    d. Sheetpile wall design and recommendations
    e. Deep foundation systems for driven piles, augercast, drilled shafts and displacement piles
    f. Shallow foundation systems
    g. Bearing capacity at specific depths
    h. Box culvert installation and geotechnical considerations



4. Pavement design recommendations including:
    a. Walking/Bike Path design
    b. Evaluation and recommendations for unsuitable materials
    c. Roadway base aggregates and soil-cement recommendations
    d. Soil improvement alternatives including lime, fly ash, and/or cement
    e. Pavement design thickness based on a provided traffic study using PaveXpress software
    f. Milling and overlay recommendations

FIRM AND KEY STAFF EXPERIENCE

Premier's team leaders have significant experience providing subsurface exploration and drilling to federal, state, municipal, and private clients including the USACE-New Orleans District, CPRA, and LaDOTD. Because of Premier's leaderships ability to deliver quality work, on time, on budget, and to the design team and our client's satisfaction, Premier is one of the leading geotechnical subsurface exploration, testing, and construction inspection firm in the greater Baton Rouge area.

Premier maintains professional staff and assistance staff, from field inspectors/technicians and drillers to administrative support to ensure they have the resources to meet clients' needs. Our Inspectors/technicians are experienced in virtually every aspect of subsurface investigations, construction and environmental services. Premier technicians are OSHA Safety Certified and conform to strict corporate alcohol, drug and safety policies.

Professional Qualifications

The Premier Team is offering the best qualified team available to support your geotechnical needs. The following paragraphs briefly introduce the leadership team that will help manage the contract and task orders efficiently to provide the greatest level of support to the design team.

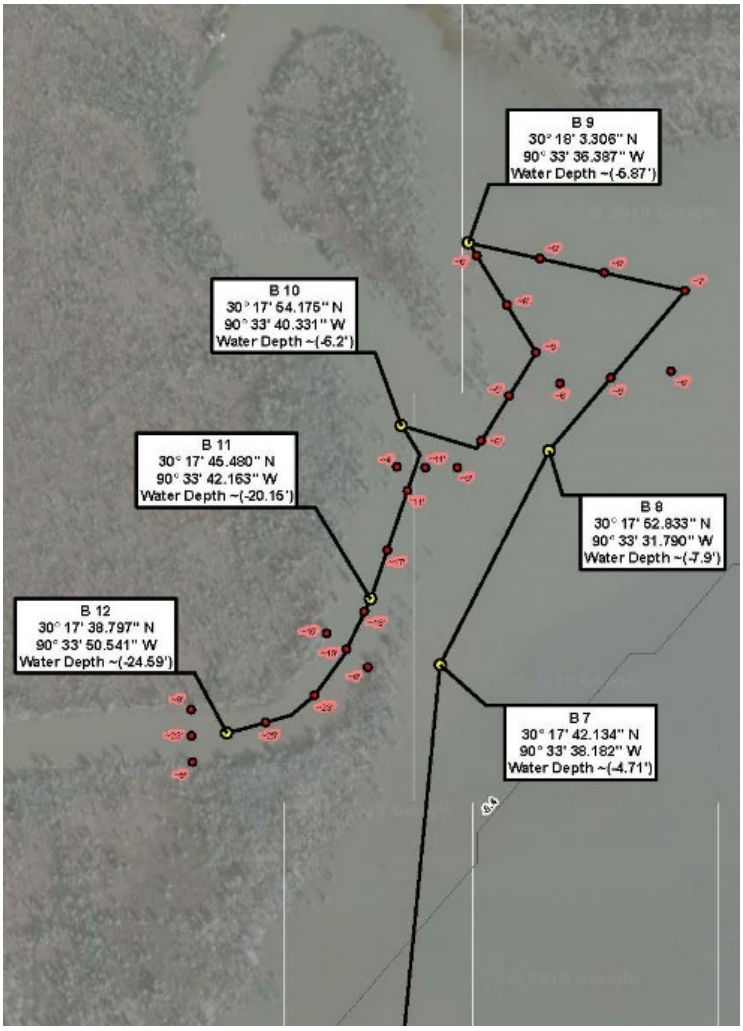
Mike Juneau, P.E., MBA – Project Manager: Mr. Juneau is Premier's President. The Baton Rouge office provides Geotechnical and Construction Materials Testing to federal, state, local, and parish governments and private corporations, developers, and contractors. Mr. Juneau has extensive geotechnical experience acting as a Project Manager and Geotechnical Project Engineer responsible for scheduling and coordinating all geotechnical field investigations to be completed by drilling crews and CPT crews, conducting onsite soil observations, analyze lab data using software, making geotechnical recommendations, performing construction observations and reporting, troubleshooting various construction issues, and assisting in the financial and budget requirements.

Brenda Novoa, MSCE, P.E. – Analysis & Design: Ms. Novoa is a senior geotechnical engineer with 18 years of experience in providing geotechnical design, inspection, and consulting services for a variety flood control, transportation, bridge, railway, aviation, architectural, environmental, and water infrastructure projects throughout the U.S. and in the Greater Baton Rouge area. She has managed numerous projects with responsibilities including preparation of proposals, project work plans, directing geotechnical subsurface investigations, design, preparing and reviewing geotechnical and inspection reports, developing geotechnical aspects of plans, preparing specifications, value engineering, construction monitoring, materials testing, project schedules, supervision and mentoring technical personnel, and invoicing.

Specialized Project Experience

Amite and Blind River Dredging and Shoreline Creation – Maurepas, LA
Mr. Mark Harrel – Livingston Parish FEMA Director – 225-686-3066

Project Description: The primary goal of this challenging project was to dredge the mouth of the Amite and Blind River to improve water flow and increase capacity during periods of flooding. The Premier team developed a robust field exploration plan that required pontoon-mounted drilling equipment to complete the subsurface explorations. Numerous soil borings were drilled and sampled in water ranging from six (6) feet to 15 feet deep. Premier's laboratory performed an extensive testing program which consisted of grain size analysis, sand/silt/clay percentages, triaxial strength testing and liquid and plastic limit tests.

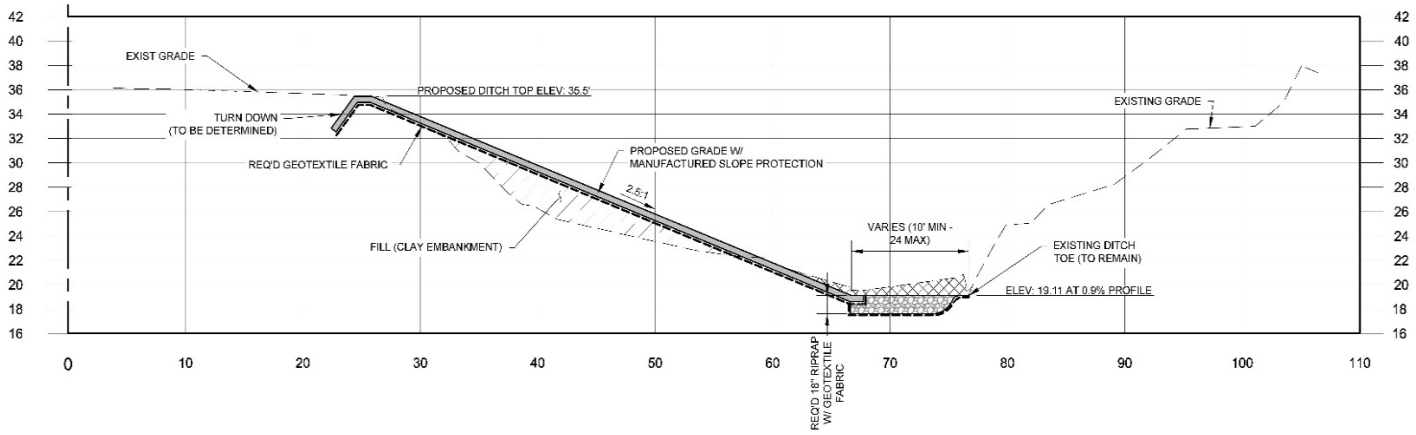


Allen Bayou Bank Rehabilitation and Stabilization - Denham Springs, LA
Mr. Jarrett Bauer, P.E. – All South Consulting Engineers, LLC - (504) 6394-4424

Project Description: FEMA funded HMGP project requiring stabilization and straightening of approximately 225 feet of the northern drainage bank along the existing Allen Bayou in Denham Springs, LA. The northern bank of Allen Bayou had extensive scouring of the slope due to several sharp turns in the bayou and increased water velocities due to mid-stream drainage improvements. In addition, replacement of two (2) existing culverts within the Allen Bayou Relief near the intersection of Duplantier Ave. and the Allen Bayou Relief was part of the overall improvements.

Premier was tasked with performing the following:

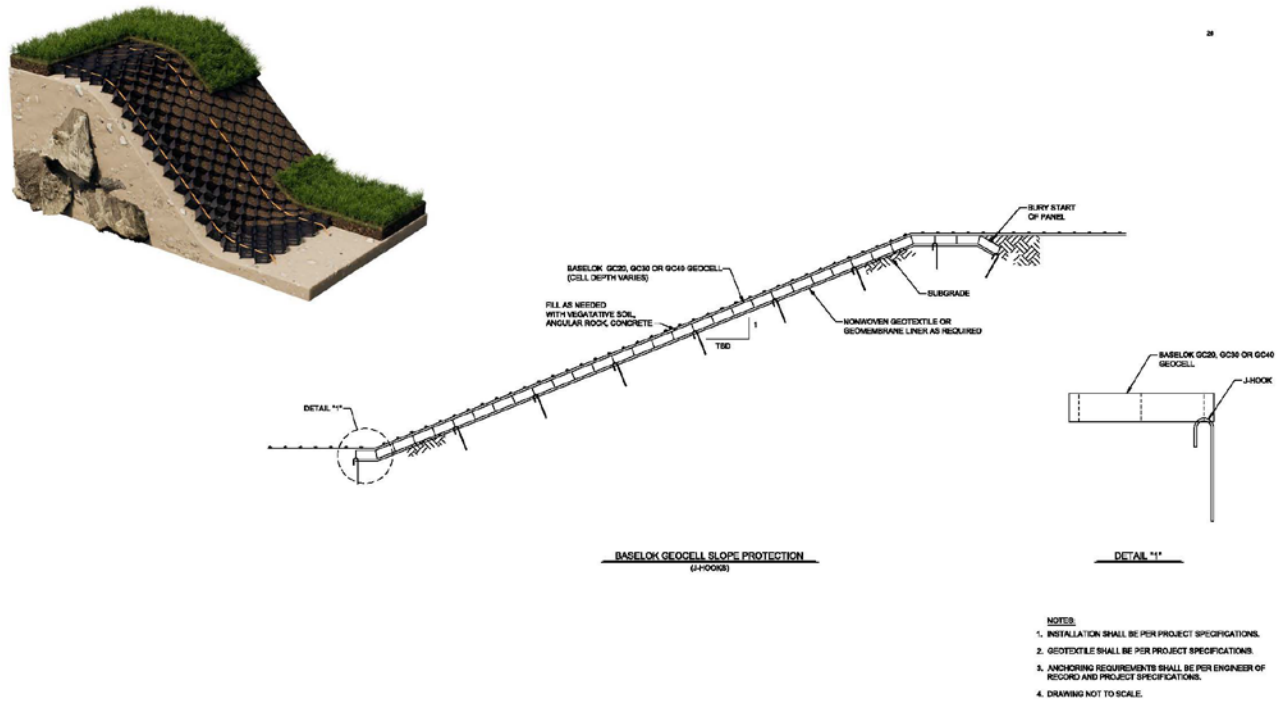
1. Subsurface exploration and laboratory testing program;
2. Slope stability analysis for low, mean, high and rapid draw down conditions;
3. Recommendations for multiple stabilization techniques including fiber reinforced products, articulating concrete mats and placement of rip rap;
4. Allowable bearing pressures and estimates of total and differential settlement, and;
5. Bedding recommendations for culverts.



TYPICAL SECTION STA. 12+75 @ 2.5:1 SIDE SLOPE
SCALE: 1" = 5'

Grays Creek Bank Stabilization – Livingston Parish, LA
Jamie Seals – Quality Engineering - (225) 698-1600

Project Description: The primary objective of this project was to stabilize an existing creek cut bank due to the increased water velocity because of mid-stream drainage improvements. Premier drilled and sampled several soil borings situated along the top of bank and performed extensive laboratory testing on the subsurface soils obtained to provide valuable data for Premier's engineering staff. Premier's engineering staff was tasked with evaluating the physical characteristics of the subsurface soil to perform slope stability analysis for mean, low and high-water conditions as well as a rapid draw down condition. Premier's engineering team evaluated several solutions and provided recommendations for armament techniques using traditional rip rap, geotextiles with soil pinning, and provided design parameters for a driven sheet pile2 wall.



PROJECT UNDERSTANDING

As stated in the RFP and the information available from CSRS, revitalization of the University Lakes System in Baton Rouge to provide better drainage, water quality for aquatic life, and provide some level of additional flood protection for the surrounding areas is the overall objective. The University Lakes System consists of six (6) lakes (four owned by LSU, and two owned by the City of Baton Rouge) and is largely considered one of the most desirable features in the City of Baton Rouge. According to a recent study performed by BRAF, the University Lake System is one of the main, if not the main, attribute to attracting new companies and retaining local talent in the metropolitan area.

Premier's team and ownership is invested in achieving the aforementioned goals of the project. Based on our understanding of end results, the objective of the subsurface exploration and geotechnical analysis is to evaluate the insitu soils within the lake bottoms to aid the design team in developing a dredging plan and to evaluate any potential environmental concerns with the normally consolidated/deposited 'fluff' material situated on the lake bottoms.

OBJECTIVE AND WORK PLAN

The objective of the proposed field investigations is to obtain information necessary to evaluate the physical characteristics of the subsurface soil along the lake bottoms and banks in order to aid the design team in development of a dredging plan and bank stabilization. The soil boring and macrocore data is necessary to determine soil stratification, shear strengths, unit weights and design soil parameters. In order to obtain quality boring data, the sample borings must be drilled in undisturbed soil using the preferred method of drilling of a rotary wash system; therefore, drilling mud is necessary to maintain the bottom and sides of the borehole, reduce the potential for uplift to offset the reduction in stress from sample removal. The density of the drilling fluid should be great enough to apply a horizontal stress within the hole to prevent the hole from collapsing.

A robust and highly technical laboratory testing program is also an integral part of the project. The laboratory testing program will allow the design team to evaluate the insitu soils strength and provide the engineering team with the data they need to evaluate an potential environmental aspects that should be considered along with high quality data to properly determine the most cost effective bank stabilization techniques and reliable estimates of short-term and long-term settlement due to placemen to fill material.

Exploration/Quality Assurance Team

The exploration team is responsible for preparing this subsurface exploration and laboratory testing program plan, analyzing the data, and performing geotechnical analyses. Table 1 documents team members from Premier.

Table 1. *Exploration Team Members*

Name	Title	Years of Experience
Mike Juneau, P.E.	Senior Geotechnical Engineer	12
Brenda Novoa, M. CE, P.E.	Geotechnical Engineer	18
Tyler Roberts	Project Manager	4

Field Team

The field team members are responsible for the subsurface investigation out in the field and are provided by Premier. The field supervisor and drillers have 36+ years' experience in geotechnical drilling and have performed multiple subsurface exploration programs on CPRA, USACE-MVN and DNR projects in accordance with USACE drilling and sampling standards. See table 2 below for team qualifications with a brief list of pertinent jobs.

Table 2. *Field Team Members*

Name	Title	Years of Experience	Project Experience
Mike Juneau, P.E.	Geotechnical Engineer/Subsurface Exploration Manager	12	Allen Bayou Slope Stability Analysis; HSDRRS Levee Lifts Prior to Armoring; Mid-Barataria Sediment Diversion; HSDRRS Levee Armoring, SLFPA-E; River Reintroduction into Maurepas Swamp (PO-29); East Atchafalaya Basin Protection Levee, USACE TO #16
William "Happy" Wallace (License No.: WWC-852)	Field Supervisor/Lead Driller	23	Allen Bayou Slope Stability Analysis; Jones Creek Bank Stabilization; HSDRRS Levee Lifts Prior to Armoring; Mid-Barataria Sediment Diversion (BA-153); Hero to Oakville, WBV-09A; Hero Canal, WVB-12; Amite River Diversion
Kelly Mitchell	Driller	13	KMI-Venture Global Compressor Station and Marsh Creation; Lakeshore Slope Stability; Jones Creek Slope Stabilization
Tommy Pearson	Assistant Driller	11	KMI-Venture Global Compressor Station and Marsh Creation; Lakeshore Slope Stability; Jones Creek Slope Stabilization

Drilling Scope and Methodology

Drilling Scope

The spacing and location of the proposed soil borings will be determined after selection of a geotechnical engineering firm. It is understood that a total of 20 soil borings will be performed to a depth of about 10 feet within the 'lake bottom' and six (6) additional borings will be performed to a depth of about 20 feet near the 'lake edge'. The number and depths of borings should be sufficient to fully characterize the insitu subsurface soils. However, additional test location may be required and will be determined after a review of the initial borings performed.

Drilling Methodology

The site will be accessed through the public boat launch situated at the BREC Milford Wampold Memorial Park. All drilling and sampling will be conducted in accordance with ASTM D 1587-08 Standard Practice for Thin Walled Tube Sampling of Soils for Geotechnical Purposes, 2012; and specific guidance as referenced in the drilling instructions. A marshbuggy mounted CME 45C Drill rig will be used to obtain samples for the 'lake edge' boring locations. A marshbuggy mounted Geoprobe 4200 with a MacroCore sampling system will be utilized for the 'lake bottom' borings. Undisturbed samples will be obtained with a 3- inch outside diameter, thin walled, Shelby tube sampler, continuously pushed to the proposed boring depth. Soil borings shall be advanced from existing grade to the proposed termination depth(s) by rotary wash drilling method using a 3.875-inch step-type drag bit and a 2.625-inch diameter NWJ drill rod. Borehole stability and soil cuttings during advancement shall be displaced to the surface utilizing a bentonite slurry. The MacroCores will be advanced using 3.25-inch diameter steel casing, 1.25-inch diameter tapered drilling rod and a 4/5 MacroCore sampling system using plastic liners and sand catches.

Once soil samples have been removed from the boreholes, they will be extruded in the field and wrapped in aluminum foil, sealed in plastic bags and placed in the appropriate sample containers. The MacroCore samples will be removed from the steel sampling device, remain in the plastic lines and sealed with plastic caps on each end. The caps will be secured to the tubes with tape prior to transportation from the field to the lab. Each sample will be identified by project number, boring name and sample depths. The samples will be transported to Premier's soil laboratory in an upright position and secured to be protected against jarring or vibration.

Standard Penetration Tests will be performed in cohesionless soils using an 18-inch long, split-barrel sampler having an insider diameter of 1-3/8 inch. These tests will be in accordance with ASTM D 1586-11. The sampler will be driven a full 18 inches using an automatic hammer drop system that lifts a 140-lb. hammer and allows it to drop 30-inch with limited impedance. The number of blows required to advance the sampler each 0.5 feet of penetration will be recorded. Disturbed samples will be stored in plastic bags and sealed.

Before drilling, boring locations will be surveyed to be cleared of underground utilities. A rotary drill with mud will be used to complete the borings. The first 3 to 5 feet of the bore hole may be cased. A commercial drilling mud will be used as the drilling fluid. The drilling mud will be used to improve

the removal of soil cuttings, provide a stabilizing force on the sides of the borehole, and minimize the stress reduction at the bottom of the hole. The drilling mud will have a sufficient consistency and weight to prevent caving and minimize intrusion of the drilling fluid into the embankment and overburden. During drilling operation, the drilling fluid mixture will be adjusted to ensure that the hole is filled and remains stable at all times. Drilling mud properties and return will be continuously monitored. All drilling activities will be conducted in the presence of a geotechnical engineer that is a licensed professional engineer or a licensed professional geologist. Maintaining the integrity of the structure is achieved by using the proper drilling mud and the experience of the operator. By watching the drilling mud level in the mud pit, situated behind the drill rig, the operator and/or engineer will be able to identify if the borehole is stable and returning the fluid, or if fracking is occurring. The drilling fluid will generate hydrostatic pressures in the borehole; however, the use of bentonite will hinder the fluid and gas penetrating. In addition, the use of bentonite in the drilling mud will create a film of small particles on the borehole wall to prevent caving and to ensure that the upward-flowing stream of drilling fluid does not erode the adjacent formation. In addition, bentonite will seal the borehole wall which will reduce fluid loss. After completion of the boring, the bore hole will be properly backfilled with a benitoite-cement grout in accordance with state requirements and procedures. Backfilling the bore hole with a benitoite-cement slurry will ensure that any hydraulic fractures that may have developed will be seal and thus, returning to its existing or improved state.

Risk Mitigation

While not anticipated, if drilling observations indicate that any abnormal condition may exist, the drill rig operator supervisor in conjunction with the geotechnical engineer and/or geologist will report and record the conditions that triggered the concern. The drill rig operator supervisor, in consultation with the geotechnical engineer and/or geologist, will use appropriate measures to mitigate the abnormal conditions such as cleaning the borehole, adjusting the drilling fluid density/consistency and/or reducing the fluid pressure. The drill rig operator supervisor will also ensure the necessary equipment and grouting materials including an adequate amount of water, Portland cement, bentonite and drilling pipe are readily accessible at all times to respond to any emergency situation that might arise while drilling.

The drill rig operator supervisor and geotechnical engineer and/or geologist will ensure a list of emergency contacts is available in the immediate proximity of the drilling operations and a mobile phone is available at all times in case of an emergency. The driller will have each day, as a part of his toolbox safety morning meeting, the appropriate parts of the quality control checklist items for drilling, sampling and sample handling. After completion of each sample boring, the drill rig supervisor will complete the applicable checklist items and maintain signed copies with the drill rig. The drill rig operator supervisor will have knowledge of the nearest distance hospital near the project site.

LABORATORY WORKPLAN AND METHODOLOGY

Premier's laboratory is equipped with State-of-the-Art geotechnical testing equipment. All testing equipment is located and performed at Premier's Baton Rouge office located at 9434 Interline Avenue, Baton Rouge, La 70809.

The soil samples will be classified in Premier's controlled lab environment within 7 days of sampling. Experienced trained lab technicians will perform the sample extrusion and logging of all samples. The laboratory tests and number of tests that will be performed include continuous visual classification, unconfined compression (UC) shear tests, unconsolidated-undrained triaxial tests (Q), Atterberg limits, 1-D consolidation, and particle size distribution (sieve/hydrometers) analysis. All laboratory testing will be performed by PREMIER and is accredited by American Association of State Highway Transportation Officials (AASHTO), US Army Corps of Engineers Validated, and in the process of obtaining accreditation by Louisiana Department of Environmental Quality (LDEQ).

Premier will collect and test the 20 samples acquired from the geotechnical core. The samples will be analyzed for pesticides/PCB's (Methods 8081/8082), Herbicides (8151), volatile organics (8260), semi-volatile organics (Method 8270), and Lead (6010). As requested, Premier will analyze the cores for appropriate COCs (Constituents of Concern), compare the analytical results to RECAP Screening Standards.

CAPABILITY OF FIRM AND BACKLOG

Premier's geotechnical capability to support this contract is founded in the strength of professionals including engineers, technical specialists and support staff. Beyond our deep, national resources, the Premier team offers cost-effective access to a pool of highly qualified geo-professionals in the Greater Baton Rouge Region.

Moreover, Premier has proven their capacity to network cost-efficiently to support numerous simultaneous projects as shown by past work where we were able to complete all geotechnical tasks on an extremely aggressive schedule set forth by the design team. Premier operates continuously under numerous indefinite delivery/indefinite quantity contracts for the State and Federal entities in Louisiana and elsewhere. These contracts are characterized by their diverse requirements, as well as significant staffing surges and reductions. This experience makes Premier well prepared to address all geotechnical field investigation, subsurface exploration, inspection, testing, and analysis and design needs in order to provide the necessary assistance to design team when required.

Premier's experienced staff of professional engineers, and highly trained project managers, drillers and technicians has proven expertise to successfully execute and coordinate the project objectives and deadlines, and a unique ability to anticipate any hinderances to the project's goals. Premier currently has approximately 14 days of field exploration backlog. Therefore, completing the field exploration for this project within 15 days from mobilization is easily attainable for the Premier team. Premier's accredited laboratory is fully staffed and able to crank out 8-10 borings (averaging 25 feet per boring) per day with our current backlog.

FEE SCHEDULE

The completed *Schedule B – Cost Proposal Template* is attached to the email submittal as requested in the RFP on page 8, *Section 4. DELIVERY OF PROPOSALS*.

DBE

Premier is a certified-active Small Business Hudson Initiative company and is a locally owned and operated company based out of and started in Baton Rouge, Louisiana.

CONCLUSION

The Premier team will provide a team you can trust to complete your geotechnical engineering and testing services with quality work, on time and within budget! As a certified-active Small Business Hudson Initiative company, we want to be your geotechnical consultant of choice for your project. We are fully committed to providing you with the necessary experience and resources for your project needs. We believe our strong collaborative relationships and being a locally owned and operated firm in Louisiana will result in design and review efficiencies that will lead to cost savings for the design team.

PERSONNEL NAME

Mike Juneau, P.E., MBA
Project Lead/Senior Geotechnical Engineer

Mr. Juneau is the President of Premier Geotech and Testing, LLC. and located in Baton Rouge, Louisiana. He has over 12 years of engineering and management experience in south Louisiana. He provides geotechnical engineering analysis and recommendations for a variety of federal and state projects as well as commercial, industrial and public works projects across Louisiana. Mr. Juneau has practical and hands-on experience in analysis of subsurface conditions, soil erodibility, stabilization and scour. He also has substantial experience with the evaluation and value engineering of subgrades, bases and pavements including FAA, AASHTO, and LADOTD design methodology, and materials specifications. Mr. Juneau's has substantial experience in construction materials testing and engineering field quality control and quality assurance.

RELEVANT PROJECT EXPERIENCE:

Gray's Creek Bank Stabilization – Livingston Parish, Louisiana
The primary objective of this project was to stabilize an existing creek cut bank due to the increased water velocity as a result of mid-stream drainage improvements. Premier drilled and sampled several soil borings situated along the top of bank and performed extensive laboratory testing on the subsurface soil obtained in order to provide valuable data for Premier's engineering staff. Mr. Juneau was the engineer of record and was tasked with evaluating the physical characteristics of the subsurface soil with respect to erodibility and scour potential. In addition, Mr. Juneau performed slope stability analysis for mean, low and high-water conditions as well as a rapid draw down condition in order to provide recommendations to stabilize the existing canal bank and to prevent any future scouring up stream or downstream. Mr. Juneau provided several solutions and recommendations for armament techniques using traditional rip rap, geotextiles with soil pinning. Premier also provided design parameters for a driven sheet pile retaining wall.
2019; Jamie Seal; Quality Engineering; 18320 LA Highway 42, Port Vincent, LA 70726
Phone225-675-6453 email: jseal@qesla.com

Livingston Parish WWTP Levee Arbitration – Denham Springs, Louisiana
An on-going project consisting of evaluating a levee breach due to the 2016 Flood. Premier's team was tasked with performing a levee inspection to identify where the seepage is occurring, determine at what depth in the levee the insitu soils were susceptible to seepage, and provide recommendations to remediate and prevent further seepage from occurring. Premier field crews performed several soil borings through Main Pond #1's containment levee at the existing WWTP situated on Lockhart Road in Denham Springs, Louisiana. Premier's laboratory performed an extensive laboratory testing program consisting of numerous permeability tests to identify the soils susceptibility to seepage as well as hydrometer test to determine the san-silt-clay content of the soil.
2019; Eddie Aydell, P.E., Alvin Fairburn and Associates, LLC; 1289 Del Estate Avenue, Denham Springs, La 70726; 225-665-1515

Livingston Parish Drainage District #1 Retention Pond - Watson, Louisiana
As part of Livingston Parish's drainage improvement master plan, Premier's scope of work consisted of evaluating the subsurface soils to determine if the property was suitable for a retention pond along Gray's Creek in Denham Springs, Louisiana. The proposed retention pond was planned to be excavated to a depth of 15 feet below existing grade. Premier performed a subsurface exploration consisting of drilling and sampling several soil borings to a depth of 20 feet each and evaluating the physical characteristics of the soil encountered by performing numerous Atterberg limit tests, sieve analysis, hydrometer test and permeability tests. Recommendations pertaining to suitability of the

PERSONNEL NAME

Firm
PREMIER GEOTECH AND TESTING, LLC
9434 Interline Avenue
Baton Rouge, LA 70809

Contact
Mike Juneau, P.E., MBA
Phone: 225.416.0700
Email: mike@premiergeotesting.com

Education
M.S. in Business Administration, 2014
B.S. in Civil Engineering, 2008
Minor in Construction Management, 2008

Professional Registration
Professional Engineer, Civil,
Louisiana License No. 37242

Certifications & Training

Professional Affiliations
- AIA
- ASCE
- PDCA

Years of Experience
With Firm: 1.5
Total: 12.5

Areas of Expertise
- Geotechnical Engineering
- Construction Material Testing
- Project Management

Employment History
- Southern Earth Sciences, Inc., Vice President/Senior Geotechnical Engineer, August 2008 through June 2017

in-situ material to retain water to be excavated for use as fill material were provided by Premier.
2018; Livingston Parish Gravity Drainage District 1, 8114 Florida Boulevard, Denham Springs, LA 225-664-5827

Hunts Correctional Oxidation Pond #1 Seepage – St. Gabriel, Louisiana
Premier was contacted to determine the cause and location of water seepage through the existing Oxidation Pond #1 Containment Levee. Portions of the containment levee associated with the existing oxidation pond was seeping and other areas are experiencing erosion along the inner banks. Premier performed a visual inspection of the existing containment levee during a period of dry weather to identify the vicinity of the seepage. After a visual inspection of the levee, Premier performed a geotechnical exploration consisting of two (2) 30 feet deep soil borings, associated laboratory testing, and installing and monitoring two (2) 15 feet deep piezometers. Premier provided geotechnical recommendations pertaining to the soil conditions, groundwater conditions, site preparation, and earthwork recommendations.
2019; Chad Bacas, P.E.; Forte and Tablada, Inc.; 9107 Interline Avenue, Baton Rouge, LA 70809; Phone: 225-927-9321; email: bacasc@forteandtablada.com

DiVincenti Borrow Pit Exploration- New Roads, Louisiana.
Premier was retained to conduct a geotechnical subsurface exploration and laboratory testing program to identify suitable subsurface soil at various locations across the project site. Premier drilled and sampled multiple soil borings ranging to depths of 20 feet below existing grade and performed an extensive laboratory testing program consisting of Atterberg limit tests, hydrometer tests to determine the sand-silt-clay percentages as well as sieve analysis. The laboratory test results were used by Premier to develop a subsurface soil profile to quickly identify the area(s) that disclosed suitable material to be used as structural fill for a specific project.
2018; Adam Marchand, Marchand Construction, Inc.; 1718 N. Lobdell Highway, Port Allen, LA 70767; 225-383-7171

PERSONNEL NAME

Brenda Novoa, P.E., MSCE
Senior Geotechnical Engineer

Ms. Novoa is a registered Professional Engineer and a Staff Engineer at Premier. Ms. Novoa's daily responsibilities include the management of projects from the proposal stage to the report distribution. Ms. Novoa is directly involved with the field exploration crews, constantly in direct contact with clients to gather project data and solve any challenging issues that arise in their projects, conducts onsite soil observations and analyzes field and lab data to develop engineering recommendations for residential, commercial and industrial projects.

Ms. Novoa's geotechnical experience includes data evaluation and engineering analysis including slope stability analysis, shallow and deep foundation recommendations per LRFD design requirements for LaDOTD projects, settlement analysis, among others, and report preparation and writing for numerous industrial, municipal, state and federal clients. She is a graduate of the University of Puerto Rico - Mayaguez where she obtained a bachelor's degree in Civil Engineering and a graduate of Louisiana State University where she obtained a master's degree in Civil Engineering specialized in Geotechnical Engineering. She is also a member of the American Society of Civil Engineers (ASCE).

RELEVANT PROJECT EXPERIENCE:

Allen Bayou Bank Stabilization and Improvements- Denham Springs, LA
FEMA funded HMGP project requiring stabilization and straightening of approximately 225 feet of the northern drainage bank along the existing Allen Bayou in Denham Springs, LA. Premier was tasked with performing a subsurface exploration and laboratory testing program, and slope stability analysis for low, mean, high and rapid draw down conditions. In addition, Premier was tasked with recommending multiple stabilization techniques including fiber reinforced products, articulating concrete mats and placement of rip rap.

LaDOTD Bridge Scour Project – Statewide, Louisiana
Ms. Novoa worked as a project engineer for the Bridge Scour project for over 100 bridge locations across the state of Louisiana. The project consisted of the determination of soil parameters and calculation of the pile capacities of the existing bridge foundations.
DPW - Street Improvement Program – New Orleans, Louisiana

Ms. Novoa served as the lead geotechnical engineer for the Street Improvement Program project in New Orleans, Louisiana. The project consisted of determining the soil parameters and development of recommendations for pavement design.

LaDOTD LA-8 Over Little River – Grant and LaSalle Parishes, Louisiana
Ms. Novoa worked as the project engineer for the LA-8 Over Little River project in Grant and LaSalle Parishes in Louisiana. The project consisted of evaluating the factor of safety for global slope stability of the bridge abutments and provide recommendations for a sheet pile wall and alternative stabilization options for the protection of the bridge abutments during periods of potential erosion.

LaDOTD Bridges – Statewide, Louisiana
Ms. Novoa worked as the project engineer in the geotechnical exploration phase for numerous bridge structures across the state of Louisiana. These projects consisted of geotechnical field and laboratory testing services to determine the soil conditions at the bridge's site and the preparation of final boring logs in LaDOTD format.

PERSONNEL NAME

Firm
PREMIER GEOTECH AND TESTING, LLC
9434 Interline Avenue
Baton Rouge, LA 70809

Contact
Brenda Novoa, P.E., MSCE
Phone: 225.416.0700
Email: bnovoa@premiergeotesting.com

Education
M.S. in Civil Engineering/Geotechnical Engineering 2003
B.S. in Civil Engineering, 2004 LA (33665)

Professional Registration
Professional Engineer, Civil,
-Louisiana License No.: 33665
-Puerto Rico License No.: 17707

Certifications & Training

Professional Affiliations
- ASCE
- PDCA

Years of Experience
With Firm: 1.0
Total: 18.0

Areas of Expertise
- Geotechnical Engineering
- Slope Stability Analysis
- Project Management

Employment History
- Furgo, Senior Geotechnical Engineer

PERSONNEL NAME

William "Happy" Wallace
Drilling Operations Manager

Mr. Wallace has more than 20 years of geotechnical drilling experience using multiple types of drill rigs with experience drilling in Ohio, Miami, Louisiana, Texas, Arkansas, Mississippi, Alabama and Minnesota.

Drilling experience includes use of 3 ¼" to 12 ¼" hollow stem augers, continuous flight augers, and 4" to 7" wash borings. He also has experience with 2" and 3" split spoon samplers, 3" and 4" Shelby tubes, 3" and 5" piston sampling, and rock and concrete coring from 2" to 6" up to 300 ft deep. In addition, Mr. Wallace has experience installing geotechnical instrumentation including piezometers and inclinometers up to 125 feet deep with proper bentonite seals.

Mr. Wallace has also performed various percolation and packer tests, installed numerous water wells via mud rotary and air from 2" to 12" up to 300 ft deep, and installed monitoring wells from 2" to 8" up to 100 ft deep.

His drilling experience includes the following:

- Use of 3 ¼" to 12 ¼" hollow stem augers up to 150 feet
- Continuous flight augers
- 4" to 7" wash borings for small to large bridges, roadways, levees, and dams up to 250 feet.
- 2" and 3" split spoon samplers
- 3" and 4" Shelby tube samples
- 3" and 5" piston sampling
- Rock coring from 2" to 6" up to 300 ft deep
- Various percolation and packer tests
- Installed numerous water wells via mud rotary and air from 2" to 12" up to 300 ft deep
- Installed monitoring wells from 2" to 8" up to 100 ft deep.

Mr. Wallace has first-hand knowledge and experience operating the following drill rigs:

- CME 45C, CME 55 and CME 75 and ATV-Mounted CME 550 and CME 850 models
- International Speedstar Quick Drill 275
- Mobile B-57, B-59 and B-80
- Simco 4000 Trailer and Track Rigs
- Truck-Mounted CME 45C, CME 55 and CME 75
- ATV-Mounted CME 550 and CME 850 models
- International Speedstar Quick Drill 275
- Mobile B-57, B-59 and B-80
- Simco 4000 Trailer and Track Rigs

Relevant Poject Experince

Amite and Blind Rive Dredging and Shoreline Restoration – The primary goal of this challenging project was to dredge the mouth of the Amite and Blind River to improve water flow and increase capacity during periods of flooding. The Premier team developed a robust field exploration plan that required pontoon-mounted drilling equipment to complete the subsurface explorations. Numerous soil borings were drilled and sampled in water ranging from six (6) feet to 15 feet deep. Premier's laboratory performed an extensive testing program which consisted of grain size analysis, sand/silt/clay percentages, triaxial strength testing and liquid and plastic limit tests.

PERSONNEL NAME

Firm
PREMIER GEOTECH AND TESTING, LLC
9434 Interline Avenue
Baton Rouge, LA 70809

Contact William "Happy" Wallace
Phone: 225.416.0700

Education

High School

Professional Registration
N/A

Certifications & Training

Water Well Contractor's License #852

Professional Affiliations

N/A

Years of Experience

With Firm: 2.5
Total: 18

Areas of Expertise

- Subsurface Explorations
- Monitoring Wells
- Geotechnical Instrumentation

Employment History

Southern Earth Sciences, Inc.
Drilling Manager; 2008-2017

Mr. Wallace was tasked with coordinating and performing the soil borings associated with this project using pontoon-mounted drilling equipment and airboat support equipment.

Reach B2 Vegetated Ridge Back Levee - Project scope includes the design of 9 miles of levee (vegetated ridge) that will be placed parallel and 200 feet away from the existing Hurricane Protection Levee (HPL) ending in Venice, LA. The 200-foot area between the existing HPL and proposed levee structure will be filled with dredged material from the Mississippi River and will ultimately be vegetated with trees and marsh grass in order to improve the existing wave berm. Two marsh creation areas totaling approximately 330 acres is included in the project scope.

Mr. Wallace was in charge of leading his the field crew and drilling the required 10 borings to depths of up to 80 feet from a jack-up barge within the limits of the Mississippi River to sample the sediments for the project's fill needs. Mr. Wallace and his team also performed the required subsurface explorations from a pontoon-mounted drilling rig to perform the soil borings in the proposed marsh creation areas and also tasked with utilizing ATV-drilling equipment for the vegetated ridge borings (5-inch diameter per USACE requirements).

Shell Island East Berm Enhancement/Shell Island West Barrier Island Restoration Project – Empire, LA - Overall project objective to construct and reestablish barrier islands to reduce wave energy, reduce shoreline erosion rates and provide ecological habitat benefits to Bastian Bay and surrounding areas. Construction will include approximately 4.0 miles of barrier island restoration, and recreation of approximately 960 acres of marshland. Under Mr. Wallace's leadership, SESI (Mr. Wallace's former employer) performed drilling and sampling in challenging conditions using a pontoon-mounted drill rig, and an airboat-mounted drill rig.

Role: Mr. Wallace was the lead driller for SESI and performed drilling and sampling of the various soil borings ranging from 15 to 60 feet below the mudline.

PERSONNEL NAME
Martin Planche
Laboratory Manager

Mr. Planche is Premier's Laboratory Manager and has over 11 years of experience in geotechnical and construction materials testing. Mr. Planche was trained by Mr. Roy Johnson and tasked with managing workflow and laboratory technicians. He is extremely knowledgeable in testing of soil, concrete, asphalt and metals. All lab operations are done in accordance with ASTM and AASHTO Specifications under his direct supervision. Mr. Planche's testing capabilities include:

- Unconfined Compression
- Unconsolidated Undrained Triaxial
- Consolidated Undrained Triaxial
- Permeability of Cohesive soils
- 1-D Consolidation
- Organic Content Determination
- Moisture Content Determination
- Atterberg Limits
- Particle Size Analysis
- Soil Classification

RELEVANT PROJECT EXPERIENCE:

- Livingston Parish WWTP Levee Seepage Arbitration, Denham Springs, LA
- Hunts Correctional Facility Oxidation Pond Seepage Analysis, Geismar, LA
- Gray's Creek Bank Stabilization, Denham Springs, LA
- Livingston Parish Drainage District #1 Retention Pond Feasibility Study, Denham Springs, LA
- Whittington Road Bridge Replacement, Denham Springs, LA
- Juban Road Sewer Improvements Program, Denham Springs, LA
- Jones Creek Widening and Bridge, Baton Rouge, LA
- False River Airport RTZ Drainage Improvements, New Roads, LA
- Florida Blvd Pump Station, Baton Rouge, LA
- Forrest Delatte Bridge Replacement and Roadway Rehabilitation, Denham Springs, LA

Firm
PREMIER GEOTECH AND TESTING, LLC
9434 Interline Avenue
Baton Rouge, LA 70809

Contact Martin Planche
Phone: 225.416.0700
Email: mplanche@premiergeotesting.com

Education

Catholic High School

Professional Registration

N/A

Certifications & Training
NICET Certified
ACI Compressive Strength
Security Passport
TWIC

Professional Affiliations

N/A

Years of Experience

With Firm: 2.5
Total: 13.5

Areas of Expertise

Geotechnical Testing
Landfill Inspection and Testing
Construction Materials Testing

Employment History

Southern Earth Sciences, Inc.
Assistant Laboratory Manager 2008-2017

LOUISIANA ECONOMIC DEVELOPMENT

DIVISION OF SMALL BUSINESS SERVICES

This certification acknowledges that

Premier Geotech and Testing, LLC
DBA: Premier Geotech and Testing, LLC

is Certified-Active as a Small Entrepreneurship with
Louisiana Economic Development's Hudson Initiative.

This certification is valid from 7/2/2020 to 7/2/2021 .

Certification No. 17975

Stephanie Hartman,
Director, Entrepreneurial Services

Louisiana Professional Engineering and Land Surveying Board

Hereby Certifies that

Premier Geotech and Testing, LLC

has satisfied the applicable requirements and is therefore licensed as a

Professional Engineering Firm

and hereby entitled to practice engineering in the State of Louisiana.

Baton Rouge, Louisiana · June 12, 2018

Chairman

Secretary

License Number EF6460

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name:	Public Address:
Premier Geotech and Testing, LLC	Mr. Michael J. Juneau, Jr. 9434 Interline Avenue Baton Rouge,LA 70809

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0006460	ACTIVE	06/12/2018	09/30/2022	Mr. Michael Joseph Juneau Jr. # PE.0037242 - Active Ms. Brenda Novoa # PE.0033665 - Active

Office of Conservation | Department of Natural Resources
STATE OF LOUISIANA

WATER WELL CONTRACTOR'S LICENSE

The Office of Conservation
for the Department of Natural Resource
State of Louisiana

hereby acknowledges that

PREMIER GEOTECH & TESTING, LLC

William Wallace

has been licensed to drill monitoring wells under the provisions of R.S. 38:3098 and is entitled to practice in the state of Lousiana as a Water Well Contractor.

This License is non-transferable and expires ***June 30, 2021*** unless renewed, revoked or suspended by the licensing authority as prescribed by statue.

Signed and sealed this ***29th*** day of ***June***, ***2020***

RICHARD P. IEYOUB
COMMISSIONER OF CONSERVATION
Office of Conservation
Louisiana Department of Natural Resources

License No. WWC- ***# 852***

AASHTO ACCREDITED

CERTIFICATE OF ACCREDITATION

AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
AASHTO

Premier Geotech and Testing, L.L.C.

in

Baton Rouge, Louisiana, USA

has demonstrated proficiency for the testing of construction materials and has conformed to the requirements established in AASHTO R 18 and the AASHTO Accreditation policies established by the AASHTO Committee on Materials and Pavements.

The scope of accreditation can be viewed on the Directory of AASHTO Accredited Laboratories (aashtoresource.org).

Jim Tymon,
AASHTO Executive Director

Moe Jamshidi,
AASHTO COMP Chair

This certificate was generated on 11/07/2019 at 8:51 AM Eastern Time. Please confirm the current accreditation status of this laboratory at aashtoresource.org/aap/accreditation-directory

SCOPE OF AASHTO ACCREDITATION FOR:

Premier Geotech and Testing, L.L.C.

in Baton Rouge, Louisiana, USA

Quality Management System

Standard:	Accredited Since:
R18 Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	11/07/2019

This certificate was generated on 11/07/2019 at 8:51 AM Eastern Time. Please confirm the current accreditation status of this laboratory at aashtoresource.org/aap/accreditation-directory

Scope of AASHTO Accreditation for:

Premier Geotech and Testing, L.L.C.

in Baton Rouge, Louisiana, USA

Soil

Standard:	Accredited Since:
D421 Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	11/07/2019
D422 Particle Size Analysis of Soils by Hydrometer	11/07/2019
D698 The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	11/07/2019
D854 Specific Gravity of Soils	11/07/2019
D1140 Amount of Material in Soils Finer than the No. 200 (75-µm) Sieve	11/07/2019
D1557 Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	11/07/2019
D2166 Unconfined Compressive Strength of Cohesive Soil	11/07/2019
D2216 Laboratory Determination of Moisture Content of Soils	11/07/2019
D2487 Classification of Soils for Engineering Purposes (Unified Soil Classification System)	11/07/2019
D2488 Description and Identification of Soils (Visual-Manual Procedure)	11/07/2019
D2850 Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	11/07/2019
D2974 Determination of Organic Content in Soils by Loss on Ignition	11/07/2019
D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	11/07/2019
D4318 Plastic Limit of Soils (Atterberg Limits)	11/07/2019
D4767 Consolidated-Undrained Triaxial Compression Test on Cohesive Soils	11/07/2019
D5084 Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter	11/07/2019
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	11/07/2019

City of Baton Rouge - Parish of East Baton Rouge
Department of Finance - Revenue Division

P O Box 2590
Baton Rouge, LA 70821-2590
Phone (225) 389-3084 Fax (225) 389-5369
www.brgov.com/dept/finance

OCCUPATIONAL LICENSE TAX

Effective Date: January 01, 2020 **Expiration Date:** December 31, 2020

PREMIER GEOTECH AND TESTING LLC Location:

9434 INTERLINE AVE
BATON ROUGE, LA 70809

9434 INTERLINE AVE
BATON ROUGE, LA 70809-0000

Account Number 00929317

Owner Name:
PREMIER GEOTECH AND TESTING LLC

By: Linda Hunt
Authorized Signature

Open Date: June 06, 2019

541000 Professional, Scientific & Technical Services OLT Only

NON-TRANSFERRABLE

This Certificate must be publicly displayed as provided by law. Each location of a business must be registered separately. Any business located in Baker, Zachary or Central, including itinerant vendors operating there, must register for an occupational license in those municipalities.

If this business is closed, moved, or sold, taxpayer will indicate this on the reverse side of this certificate, sign and forward it to the City-Parish Revenue Division.

This certificate DOES NOT exempt the bearer from complying with all applicable permits and inspections requirements from the Department of Public Works or any other City-Parish laws or regulations regarding the legal requirements of operating a business in East Baton Rouge Parish.

LAW REQUIRES POSTING IN A CONSPICUOUS PLACE

90,752

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name:	Public Address:
Premier Geotech and Testing, LLC	Mr. Michael J. Juneau, Jr. 9434 Interline Avenue Baton Rouge,LA 70809

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0006460	ACTIVE	06/12/2018	09/30/2022	Mr. Michael Joseph Juneau Jr. # PE.0037242 - Active Ms. Brenda Novoa # PE.0033665 - Active

Premier GEOTECH AND TESTING, LLC

November 6, 2020

ADDENDUM NO. 1

TO: **ALL BIDDERS**

SUBJECT: **UNIVERSITY LAKES PROJECT**

REQUEST FOR PROPOSALS FOR GEOTECHNICAL DATA COLLECTION AND SEDIMENT SAMPLING SERVICES by

UNIVERSITY LAKES LLC, a single-member entity created and controlled by LSU Real Estate and Facilities Foundation ("REFF")

BID DATE: **Friday, November 20, 2020 at 12:00 P.M. CT**

This addendum shall be part of the Contract Documents in accordance with the Instructions to Bidders. The following revisions shall be incorporated and take precedence over any conflicting part of the original contract documents. These items are issued to add to, modify and clarify the Contract Documents.

ADDENDUM:

This Addendum No. 1 consists of 6 pages including all attachments. **PLEASE INCLUDE THE SIGNED ACKNOWLEDGEMENT OF THIS ADDENDUM WITHIN PROPOSER'S RESPONSE. ELECTRONIC OR SCANNED SIGNATURES ARE ACCEPTABLE.** The signed Acknowledgement of Receipt will not count towards the proposal page limit.

PART I: Pre-Proposal Conference Call Participants List:

List of participants from Non-Mandatory Pre-Proposal Conference Call on October 28, 2020.

PART II: Proposers Questions:

Proposers Questions and Owners Responses.

PART III: Acknowledgement of Receipt:

Acknowledgement of Receipt of this Addendum to be signed and submitted with Proposer's response. Electronic or scanned signatures are acceptable.

PART I: Pre-Bid Conference Participant List:

UNIVERSITY LAKES PROJECT
GEOTECHNICAL DATA COLLECTION AND SEDIMENT SAMPLING SERVICES
Wednesday, October 28, 2020 at 1:00 P.M. CT

PARTICIPANT LIST

The list below includes information submitted by participants when registering for the Pre-Proposal Conference Call.

Name	Company	Email
Mark Goodson	B&D/CSRS	mark.goodson@csrsinc.com
Seth Mosby	Quality Engineering & Survey (QES)	smosby@qesla.com
Deborah Jones		
Samuel Best	Anchor QEA	sbest@anchorqea.com
Lauren Ortego	Fenstermaker	lauren@fenstermaker.com
Cade E. (Eddy) Carter	Gulf South Research	Eddy@gsrcorp.com
DJuana Beason	Terracon	DJuana.Beason@terracon.com
James Andermann	B&D/CSRS	james.andermann@csrsinc.com
Marcy Beasley	Volkert, Inc.	marcy.beasley@volkert.com
Jack Koban	Fugro	JKoban@fugro.com
G l01		
Ryan Roppolo	B&D/CSRS	ryan.roppolo@csrsinc.com
Walter Dinicola	Anchor QEA	wdinicola@anchorqea.com
Michael Petty	Quality Engineering & Survey (QES)	MPetty@qesla.com
Chad Poche	Gulf South Engineering & Testing, Inc.	cpoche@gulfsoutheng.com
Justin B.		
Shannon Blakeman	CARBO Landscape Architecture	sblakeman@carbo-la.com
Gregory Mattson II	S&ME, Inc.	gmattson@smeinc.com
Matt Salmon	Volkert, inc.	matt.salmon@volkert.com
Mary Field	Compliance Consultants	mfield@complianceconsultants.org
Leu Anne Greco	LSU Foundation	lgreco@lsufoundation.org
Josef Hoffmann	Anchor QEA	jhoffmann@anchorqea.com
Patrick Martin	LSU	pmartin@lsu.edu
Traci Birch	LSU - Coastal Sustainability Studio	tbirch@lsu.edu
Ryan Williamson		
Chris Barnes	SCAPE LANDSCAPE	chris@scapestudio.com
Lance LaPlace	Quality Engineering & Survey (QES)	llaplace@qesla.com
Kelly Rhodes		
Julian Sagastume	B&D/CSRS	
Brandon Hebron	Atlas	brandon.hebron@oneatlas.com

End of Section

PART II: Proposers Questions:

COMMENTS & QUESTIONS: As points of clarification

1. QUESTION: What is the average depth of the lakes?
   RESPONSE: Please refer to www.csrsinc.com/lakes for the "Master Plan Info" link.
2. QUESTION: Two lakes are accessible by existing boat ramps. How do you access the other lakes?
   RESPONSE: All lakes are accessible by public roads and right of way servitudes.
3. QUESTION: Are limitation caused by landowners foreseen?
   RESPONSE: No, Lease agreement will provide the consulting team with proper access.
4. QUESTION: On page 4 under "Requirements" is the list or table priority?
   RESPONSE: Table
5. QUESTION: Will the results of the bathymetric and stumps findings be available prior to the survey?
   RESPONSE: The bathymetric and stumps findings will not be available prior to the RFP submittal date of November 20, 2020. Please include a workplan outlining the preferred timing and methodology.
6. QUESTION: How will the geotechnical services be conducted without the engineer?
   RESPONSE: The existing program management team will provide necessary coordination.
7. QUESTION: Are we stamping the design drawings?
   RESPONSE: No
8. QUESTION: Will placement areas be identified along the edges?
   RESPONSE: No, the consulting team will need to provide recommended placement areas within the workplan. Placement areas will be determined during the contract negotiation phase.
9. QUESTION: It was stated during the call that University Lakes LLC (UL) would obtain a lease for all 6 lakes that it would hold throughout the duration of the project. What permits will need to be obtained and with who would coordination need to be conducted? Similarly, with who would coordination for access need to be conducted?
   RESPONSE: The existing program management team will provide permitting coordination. The consulting team is expected to provide necessary documents to support permitting efforts.
10. QUESTION: Can you confirm that the testing schedule listed in the narrative (page 4, Requirements Item 2) is the ruling schedule and not the table listed below Item 2?
    RESPONSE: Please see question 4 of this addendum.
11. QUESTION: The table lists additional hydrocarbon parameters that are not mentioned in the narrative (page 4, Requirements Item 2) DRO, ORO, GRO, Aliphatic and Aromatic. Are those parameters included in the COC also?
    RESPONSE: Please see question 4 of this addendum. Final parameters will be determined during the contract negotiation phase.
12. QUESTION: We plan to use a local laboratory in Baton Rouge, however they only perform lead analysis by Method 6020. Would that be acceptable?
    RESPONSE: All the disposal materials will have to comply with applicable local, state and federal environmental regulations.
13. QUESTION: For the sediment samples will Encores or Terracore kits be required?

RESPONSE: Please include a workplan outlining the appropriate sampling to comply applicable local, state and federal environmental regulations.

14. QUESTION: For the RECAP Report, do you need a "Level 4" data package?
    RESPONSE: To be determined based on data points and collaboration with LDEQ.

15. QUESTION: Would a phased approach be considered in which the bathymetric and stump survey results be delivered ahead of mobilization for the geotechnical data collection task? Survey results could help further refine the Geotech scope?
    RESPONSE: Please include a workplan outlining the preferred methodology and include the cost within the unit cost per boring.

16. QUESTION: Will the surveyor be performing a magnetometer survey in boring locations? This would require Geotech to mobilize after the mag survey?
    RESPONSE: Please include a workplan outlining the preferred methodology and include the cost within the unit cost per boring.

17. QUESTION: Can the number of sampling locations for the lake bottom fluff be increased?
    RESPONSE: Responses to the RFP shall be based on the suggested number of sampling locations. Additional sampling may be required throughout the lifecycle of the project. Rates and prices for additional sampling will be determined during the contract negotiation phase.

18. QUESTION: What type of dredging equipment will be used? Cutter-head, dragline, excavator?
    RESPONSE: To be determined.

19. QUESTION: Are there any suggested placement areas or more importantly, are there any placement areas that are off limits? This may help better select the deeper boring locations?
    RESPONSE: Please see question 8 of this addendum.

20. QUESTION: What is the desired placement methodology? E.g. building containment dikes to dewater, disposing of offsite?
    RESPONSE: To be determined.

21. QUESTION: What is the desired end use? E.g. compacted and used for a park, vegetative plantings, additional beach spaces?
    RESPONSE: Please refer to www.csrsinc.com/lakes for the "Master Plan Info" link.

22. QUESTION: Will the lakes be excavated/dredged to a certain uniform elevation? Or will 5' of material be removed everywhere? Is this the same for all lakes?
    RESPONSE: Please refer to www.csrsinc.com/lakes for the "Master Plan Info" link.

23. QUESTION: Regarding questions 10-14 above: Will coordination with the selected design firm be allowed to better refine the geotechnical investigation plan?
    RESPONSE: Yes. The existing program management team will provide coordination services.

24. QUESTION: On the Geotechnical data and sediment sampling scope, is the final report intended to be strictly a data summary or do you intend to include any preliminary engineering design recommendations? As I interpret the RFP, there is not a specific request for strength profiles or other information beyond a summary of test results and possibly boring logs?
    RESPONSE: A complete report complete with profiles, summary test results, boring logs and recommendations will be required.

25. QUESTION: As I interpret the suggested scope, the six 20-ft borings are intended to evaluate temporary dredge spoil placement locations. Are there locations already in mind for placement or should we locate the borings based on presumed locations to be revised through consultation with the advisory team subsequent to award?

    RESPONSE: Please see question 8 of this addendum.

26. QUESTION: It is my understanding that a series of bridges and manmade fill and greenspace features are part of the overall plan. These would of course require a more in-depth geotechnical exploration and design scope. Will those be packaged together in subsequent solicitations to a turnkey team or is there a plan for future stand-alone geotechnical contracts to meet the design requirements of those anticipated features?

    RESPONSE: Responses to the RFP shall be based on the suggested number of sampling locations. Additional sampling may be required throughout the lifecycle of the project. Rates and prices for additional sampling will be determined during the contract negotiation phase.

27. QUESTION: RFP specifies drilling 6 borings within 50 feet of the bank and within the lakes for settlement analyses. Curious as to what is proposed that would create settlement within the lakes? Should these borings be performed on the banks - on land – and not in the lakes?

    RESPONSE: Please refer to www.csrsinc.com/lakes for the "Master Plan Info" link.

28. QUESTION: For all borings, what sample interval is expected – continuous full depth, continuous upper 10 feet and then 5 foot centers, 5 foot centers full depth, etc?

    RESPONSE: Continuous full depth.

29. QUESTION: How many consolidation tests are expected to be performed within the 6 "near shore" borings? One per boring?

    RESPONSE: Please include a workplan outlining the preferred methodology and include the cost within the unit cost per boring.

30. QUESTION: For 3, what sample depth is needed for the consolidation tests?

    RESPONSE: Please include a workplan outlining the preferred methodology and include the cost within the unit cost per boring.

31. QUESTION: Is only one chemical test per boring from the 20 "lake borings" required?

    RESPONSE: Please include a workplan outlining the preferred methodology and include the cost within the unit cost per boring.

32. QUESTION: For 5, what depth for testing is required?

    RESPONSE: Please include a workplan outlining the preferred methodology and include the cost within the unit cost per boring.

End of Section

PART III: Acknowledgement of Receipt

This Acknowledgement of Receipt must be signed by an Authorized Representative of the Proposer and included in Proposer's response to this Request for Proposals.

I HEREBY CERTIFY THAT I HAVE ACKNOWLEDGED RECEIPT OF THIS ADDENDUM 1 TO THE REQUEST FOR PROPOSALS FOR MASTER DESIGN SERVICES AND HAVE INCLUDED A COPY OF THIS ACKNOWLEDGEMENT WITH PROPOSAL AS EVIDENCE OF RECEIPT.

COMPANY NAME: Premier Geotech and Testing, LLC

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____

PRINTED NAME: Mike Juneau, P.E. TITLE: President

DATE: November 19, 2020

End of Addendum

November 13, 2020

ADDENDUM NO. 2

TO: **ALL BIDDERS**

SUBJECT: **UNIVERSITY LAKES PROJECT**

REQUEST FOR PROPOSALS FOR GEOTECHNICAL DATA COLLECTION AND SEDIMENT SAMPLING SERVICES by

UNIVERSITY LAKES LLC, a single-member entity created and controlled by LSU Real Estate and Facilities Foundation ("REFF")

BID DATE: **Friday, November 20, 2020 at 12:00 P.M. CT**

This addendum shall be part of the Contract Documents in accordance with the Instructions to Bidders. The following revisions shall be incorporated and take precedence over any conflicting part of the original contract documents. These items are issued to add to, modify and clarify the Contract Documents.

ADDENDUM:

This Addendum No. 2 consists of 3 pages including all attachments. **PLEASE INCLUDE THE SIGNED ACKNOWLEDGEMENT OF THIS ADDENDUM WITHIN PROPOSER'S RESPONSE. ELECTRONIC OR SCANNED SIGNATURES ARE ACCEPTABLE.** The signed Acknowledgement of Receipt will not count towards the proposal page limit.

PART I: Additional Clarifications:

Additional clarifications related to the language in the RFP or previously provided in Addendum #1.

PART II: Acknowledgement of Receipt:

Acknowledgement of Receipt of this Addendum to be signed and submitted with Proposer's response. Electronic or scanned signatures are acceptable.

PART I: Additional Clarifications:

1. The intent of this RFP is for the selected firm(s) to submit a data collection report only, describing methodologies and findings. The analysis of said data for design and construction purposes will be performed by other contractors procured separately. However, respondents to this RFP should account for some coordination with those outside contractors in their cost estimates.
2. The only required form for each Proposer's cost proposal is the completed Schedule B – Cost Proposal Template.

End of Section

PART II: Acknowledgement of Receipt

This Acknowledgement of Receipt should be signed by an Authorized Representative of the Proposer and included in Proposer's response to this Request for Proposals.

I HEREBY CERTIFY THAT I HAVE ACKNOWLEDGED RECEIPT OF THIS ADDENDUM 2 TO THE REQUEST FOR PROPOSALS FOR MASTER DESIGN SERVICES AND HAVE INCLUDED A COPY OF THIS ACKNOWLEDGEMENT WITH PROPOSAL AS EVIDENCE OF RECEIPT.

COMPANY NAME: Premier Geotech and Testing, LLC

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____

PRINTED NAME: Mike Juneau, P.E. TITLE: President

DATE: November 19, 2020

End of Addendum

SCHEDULE C to UL RFP for Geotechnical Data Collection and Sediment Sampling Services – CERTIFICATION STATEMENT

The undersigned hereby acknowledges she/he has read and understands all requirements and specifications of the Request for Proposals (RFP), including attachments.

OFFICIAL CONTACT. UL requests that the Proposer designate one person to receive all documents and the method in which the documents are best delivered. Identify the contact name and fill in the information below: (Print Clearly)

Date 11-19-2020 Official Contact Name: Mike Juneau, P.E.

A. E-mail Address: mike@premiergeotesting.com

B. Facsimile Number with area code: ( )

C. US Mail Address: 9434 Interline Avenue
Baton Rouge, LA 70809

Proposer certifies that the above information is true and grants permission to UL to contact the above named person or otherwise verify the information provided.

By its submission of this proposal and authorized signature below, Proposer certifies that:

1. The information contained in its response to this RFP is accurate.
2. Proposer complies with each of the mandatory requirements listed in the RFP and will meet or exceed the functional and technical requirements specified therein.
3. Proposer accepts the procedures, evaluation criteria, mandatory contract terms and conditions, and all other administrative requirements set forth in this RFP.
4. Proposer's quote is valid for at least *180 calendar* days from the date of the proposal submission deadline specified in the RFP.
5. Proposer understands that if selected as the successful Proposer, he/she will have *15 business days* from the date of delivery of final Contract in which to complete contract negotiations, if any, and execute the final contract document.
6. Proposer certifies, by signing and submitting a Proposal for $25,000 or more, that their company, any subcontractors, or principals are not suspended or debarred by the General Services Administration (GSA) in accordance with the requirements in 2 CFR 200. (A list of parties who have been suspended or debarred can be viewed via the internet at www.sam.gov.)
7. There is no litigation or any suspension or debarment proceedings that could affect the services to be supplied in any contract resulting from this RFP, or a list of such litigation/ proceedings is attached to this Certification.
8. In the last ten (10) years, the Proposer has not filed (or had filed against it) any bankruptcy or insolvency proceeding, whether voluntary or involuntary, or undergone the appointment of a receiver, trustee, or assignee for the benefit of creditors, or if such proceedings exist, an explanation providing relevant details is attached.
9. There are no pending Securities Exchange Commission investigations involving the Proposer, or, if such are pending or in progress, an explanation providing relevant details and an attached opinion of counsel as to whether the pending investigation(s) will impair the Proposer's performance in a contract under this RFP is attached.

10. There is no open or pending litigation initiated by Proposer or where Proposer is a defendant in a customer matter, or if such proceedings exist, an explanation providing relevant details is attached.
11. Proposer certifies and agrees that the following information is correct: In preparing its response, the Proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminate business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. Proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. UL reserves the right to reject the response of the proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.

Authorized Signature: [signature]
Typed or Printed Name: Mike Juneau, PE, MBA
Title: President
Company Name: Premier Geotech & Testing, LLC
Address: 9434 Interline Avenue
City: Baton Rouge State: LA Zip: ~~70817~~ 70809

SIGNATURE of Proposer's Authorized Representative [signature] DATE 11/19/2020