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# Statement of Qualifications

Engineering and Related Services Calcasieu River Bridge (HBI) (ENV)

State Project No.: H.003931.6

Contract No.: 4400027470

August 3, 2023

## **Louisiana DOTD**

Michael Gorbaty, Contract  
Administrator

1201 Capitol Access Road  
Baton Rouge, Louisiana 70802

## **Respondent**

Fugro USA Land, Inc.  
4233 Rhoda Drive

Baton Rouge, Louisiana 70816  
Peter Cole, Environmental Services Manager



**FUGRO USA LAND, INC.**  
4233 Rhoda Drive  
Baton Rouge, Louisiana 70816  
United States of America

**June 28, 2022**

**Michael Gorbaty ([Michael.Gorbaty@la.gov](mailto:Michael.Gorbaty@la.gov))**

**Consultant Contract Services Administrator,  
Louisiana Department of Transportation and Development**

1201 Capitol Access Road, Room 405-E  
Baton Rouge, LA 70802  
USA

**Dear Mr. Gorbaty:**

Fugro USA Land, Inc. is pleased to submit our Statement of Qualifications for Engineering and Related Services for Calcasieu River Bridge (HBI) (ENV) to the Louisiana Department of Transportation and Development (DOTD). This letter is being written to confirm that we are qualified and dedicated to comply with the terms specified in response to the Request for Qualifications, dated July 13, 2023. The Fugro Team is excited and fully prepared to continue our support of DOTD by providing:

- Environmental Consulting
- Geological and Hydrogeological Review and Consulting
- Geotechnical Explorations (GE)
  - Drilling, Sampling and Corresponding Laboratory Testing
- Geotechnical Design (GD)
  - Soil Profile, Graphical Logs
  - Engineering Analyses and Recommendations
  - Subsurface Exploration and Engineering Report
- Geotechnical Construction Support (GC)
  - QA/QC of materials and construction activities
- Topographic Survey (LC)
- Maintain continuous, open communications with designated DOTD staff on all project issues through monthly or otherwise requested reporting intervals; and
- Attendance at required meetings with DOTD throughout the duration of the contract for the purpose of review of reports and quality of work, Identification and resolution of any problems requiring DOTD input or attention, coordination of efforts in the interest of effectiveness and efficiency of services rendered, preservation of the relationship between DOTD and Fugro, and the maintenance of a mutual understanding of the contract policies and procedures.

Our team of environmental professionals, geologists, geotechnical engineers and professionals have the recent, local project experience and resources to provide the quality services and results that we demand of ourselves and the DOTD expects.

With this letter, we confirm the following:

- Fugro and our subcontractors are licensed by the State of Louisiana to perform engineering and related work;
- Principal engineer is a Professional Civil Engineer, currently licensed in the State of Louisiana for with at least ten (10) years' experience in Civil/Geotechnical Engineering;
- Supporting staff includes at least one (1) Professional Engineer employed full-time by Fugro (or sub) and currently licensed in the State of Louisiana with at least five (5) years' experience in Geotechnical Engineering in Louisiana soils;
- At least one (1) professional geoscientist registered in the state of Louisiana with a minimum of five (5) years of experience in geology and groundwater in Louisiana soils;
- At least one (1) professional engineer, registered in the state of Louisiana with a minimum of five (5) years of experience in Phase II environmental site assessment (ESA) involving subsurface behavioral analysis of dense nonaqueous phase liquids (DNAPL) and their derivatives in various soils and/or geof ormations;
- At least one (1) certified hazardous waste supervisor with 40 hours 29 CFR 1910.120 Hazardous Worker Course, Levels B, C, and D, with a minimum of three (3) years of experience in hazardous waste management..

Included with this submission are the key staff resumes, qualifications, and other supporting documentation demonstrating Fugro's ability to successfully deliver quality data and deliverables for potential projects associated with this contract. We strongly desire the opportunity to participate in this important endeavor and seek to be the preferred geotechnical engineering partner of the Louisiana Department of Transportation and Development. We appreciate your time and consideration and look forward to working with you in the near future.

**Sincerely,**  
**FUGRO USA LAND, INC.**



**Eric Marx, P.E.**

Vice President, Louisiana General Manager

**DOTD FORM: 24-102**

(Revised January 1, 2023)

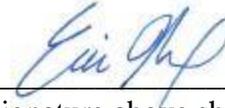
**PROPOSAL TO PROVIDE CONSULTANT SERVICES**

Prime consultant shall complete the DOTD Form 24-102 without altering the Form's text; however, the instruction and/or guidance for Sections 12 through 23 can be removed but do not remove Section title and number.

ANY CONSULTANT FAILING TO SUBMIT ANY OF THE INFORMATION REQUIRED ON THE DOTD FORM 24-102, OR PROVIDING INACCURATE INFORMATION ON THE DOTD FORM 24-102, MAY BE CONSIDERED NON-RESPONSIVE.

1. Contract Name as shown in the advertisement	CALCASIEU RIVER BRIDGE (HBI) (ENV) ROUTE: I-10 CALCASIEU PARISH
2. Contract Number(s) as shown in the advertisement	4400027470
3. State Project Number(s), if shown in the advertisement	H.003931.6 (Federal Aid Project No. 0101212)
4. Prime consultant name ( <b>name must match as registered with the Louisiana Secretary of State where such registration is required by law</b> )	Fugro USA Land, Inc.
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	EF. 0003154 VF. 0000794
6. Prime consultant mailing address	4233 Rhoda Drive, Baton Rouge, Louisiana 70816
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	4233 Rhoda Drive, Baton Rouge, Louisiana 70816
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Peter Cole, Environmental Services Manager 225.292.5084, <a href="mailto:pcole@fugro.com">pcole@fugro.com</a>
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Eric R. Marx, PE, Vice President 225.292.5084, <a href="mailto:emarx@fugro.com">emarx@fugro.com</a>

**10.** This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also 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 terminated 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. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.



Signature above shall be the same person listed in Section 9:

Date: August 10, 2023

**11.** If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.

<u>Firm(s):</u>	<u>Firm(s)' %:</u>
APS Engineering & Testing, LLC	4%

**12. Past Performance Evaluation Discipline Table:**

As indicated in the advertisement, insert the completed table here. The percentages for the prime and sub-consultants must total 100% for each past performance evaluation discipline, as well as the overall total percent of the contract.

The **only** past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other (please specify).

Past Performance Evaluation Discipline(s)	% of Overall Contract	Prime - Fugro	Firm B - Leaf	Firm C – APS	Firm D	Firm E	Each Discipline must total to 100%
Geotechnical	10%	80%		20%			<b>100%</b>
Environmental	55%	70%	30%				<b>100%</b>
Data Collection	30%	70%	20%	10%			<b>100%</b>
Survey	5%	100%					<b>100%</b>
Identify the percentage of work for the <b>overall contract</b> to be performed by the prime consultant and each sub-consultant.							
Percent of Contract	<b>100%</b>	72.5%	22.5%	5%			

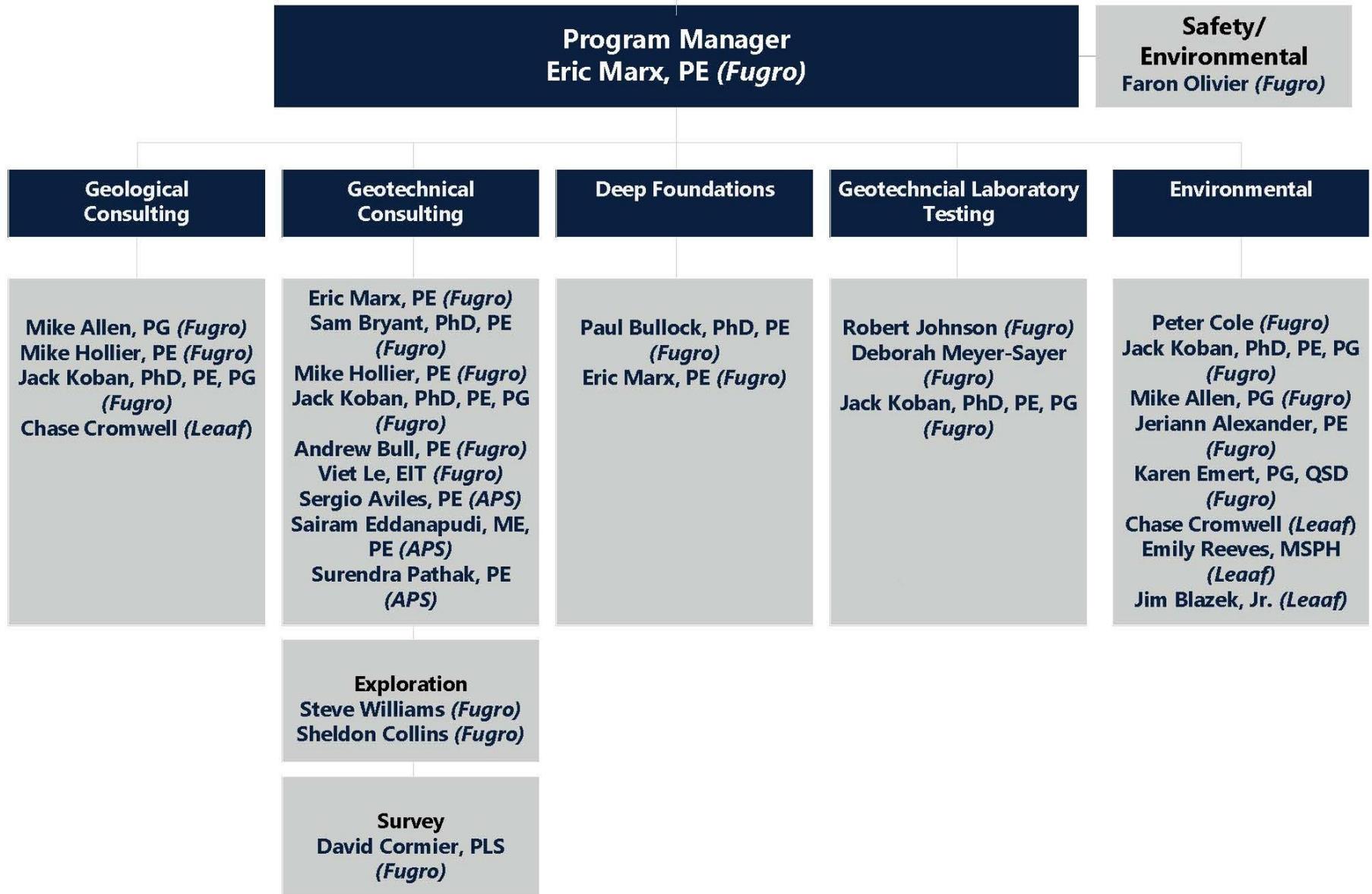
**13. Firm Size:**

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
Fugro USA Land, Inc.	Principal	1	2
Fugro USA Land, Inc.	Supervisor-Engineer	2	4
Fugro USA Land, Inc.	Environmental Professional	2	2
Fugro USA Land, Inc.	Engineer Intern	1	1
Fugro USA Land, Inc.	Geologist	1	2
Fugro USA Land, Inc.	CADD-Operator	1	2
Fugro USA Land, Inc.	Driller	1	3
Fugro USA Land, Inc.	Technician	4	8
Fugro USA Land, Inc.	Administrative	1	2
Fugro USA Land, Inc.	Clerical	1	2
Fugro USA Land, Inc.	Party Chief	1	3
Fugro USA Land, Inc.	Surveyor	1	2
Leaaf Environmental, LLC	Geologist	1	1
Leaaf Environmental, LLC	Environmental Professional	1	1
Leaaf Environmental, LLC	Environmental Manager	1	1
A P S Engineering and Testing, LLC	Engineer	3	3
A P S Engineering and Testing, LLC	CADD Technician	2	2
A P S Engineering and Testing, LLC	Driller	6	6
A P S Engineering and Testing, LLC	Technician	11	11

(Add rows as needed)

14. Organizational Chart:

# DOTD



**Minimum Personnel Requirements:**

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)	State of license	License / certification expiration date
1, 2, 3	Eric Marx, PE	Fugro USA Land, Inc.	Professional Engineer (Civil), No. 31479 25 years' experience	LA	3/31/2025
6	Jack Koban, PhD, PE, PG	Fugro USA Land, Inc.	Professional Engineer (Environmental), No. 36060, Professional Geoscientist, No. 1045 18 years' experience	LA, LA	PE - 3/31/2025 PG - 5/10/2024
4	Sam Bryant, PhD, PE	Fugro USA Land, Inc.	Professional Engineer (Civil), No. 40695 37 years' experience	LA	9/30/2024
4	Paul Bullock, PhD, PE	Fugro USA Land, Inc.	Professional Engineer (Civil), No. 33812 32 years' experience	LA	9/30/2024
4	Mike Hollier, PE	Fugro USA Land, Inc.	Professional Engineer (Civil), No. 34828 17 years' experience	LA	3/31/2024
5	Mike Allen, PG	Fugro USA Land, Inc.	Professional Geoscientist, No. 165, 35 years' experience	LA	10/14/2023
7	Peter Cole	Fugro USA Land, Inc.			
5	Chase Cromwell, PG,	Leaaf, Environmental, LLC	Professional Geoscientist, No. 1360 7 years' experience	LA	5/10/2024
7	Jim Blazek, Jr.	Leaaf, Environmental, LLC			
4	Sergio Aviles, PE	APS Engineering & Testing, LLC	Professional Engineer (Civil), No. 33571 21 years' experience	LA	3/31/2024
4	Sairam Eddanapudi, ME, PE	APS Engineering & Testing, LLC	Professional Engineer (Civil), No. 35129	LA	3/31/2024

			20 years' experience		
4	Surendra Pathak, PE	APS Engineering & Testing, LLC	Professional Engineer (Civil), No. 43487 19 years' experience	LA	9/30/2023

(Add rows as needed)



### 15. Staff Experience:

Résumés shall be provided for all prime and sub-consultant personnel listed in Sections 14 and/or 15 of the proposal. Résumés of personnel not identified in Section 14 or Section 15 of the proposal should not be included and will not be evaluated. Résumés should be **limited to 2 pages per person**. Any certificates required by the advertisement are to be placed in Section 20.

Firm employed by		<b>Fugro USA Land, Inc.</b>	
Name	<b>Eric Marx, PE</b>	Years of relevant experience with this employer	21
Title	Vice President, Louisiana General Manager	Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization		MS / 2001 / Civil Engineering BS / 1999 / Civil Engineering	
Active registration number / state / expiration date		31479 / LA / March 31, 2023	
Year registered	2004	Discipline	Civil
Contract role(s) / brief description of responsibilities		<b>Principal-in-Charge, MPR No. 1, 2, and 3.</b> Mr. Marx will provide engineering review and oversight of the program tasks as well as serve as the contract signatory for Fugro USA Land, Inc.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
<b>05/01 – current</b>	Principal-in-Charge, Fugro Louisiana General Manager. Eric Marx has provided geotechnical services on transportation, government, industrial, commercial and coastal infrastructure projects since joining Fugro in 2001. He has been both engineer and engineer-of-record on some of Louisiana’s high-profile transportation projects over the last 20 years, including the I-10 Twin Span Replacement Project, John J. Audubon Bridge, and numerous task orders, as part of previous retainer contracts. Eric’s role has involved managing and executing task orders, developing and overseeing field programs, achieving and maintaining laboratory certifications and performing and reviewing geotechnical engineering analyses. Many of the projects have required access in difficult site conditions and required advanced engineering evaluation.		
01/10 – 03/17 08/20 - Current	<b>LADOTD Statewide Geotechnical Retainer Contract, Louisiana.</b> Mr. Marx served as principal-in charge for this program which included performing over 20 task orders for bridge structures across Louisiana with a total program cost of over \$4M. The scope of work included soil borings (on land and in water), cone penetration test (CPT), laboratory testing, engineering analysis, and design recommendations. Fugro was also retained to install geotechnical instrumentation. Mr. Marx was Principal-in-Charge, negotiated and oversaw completion of task orders, and worked with DOTD to ensure client satisfaction on deliverables.		
04/04 – 04/19	<b>Bridge Scour Analysis, Statewide Louisiana.</b> Mr. Marx served as project engineer, project manager and is currently principal-in-charge for the project. Fugro was selected by the Louisiana Department of Transportation and Development (LADOTD), with the assistance of selected Design Consultants, in evaluating the stability of critical bridge structures across the state regarding scour susceptibility. Since 2004, Mr. Marx has supervised evaluations on over 300 bridges across Louisiana including coordination of geotechnical field investigations, laboratory testing, and Electric Cone Penetrometer Test (ECPT) soundings. Geotechnical engineering analyses included deep foundation evaluations on driven piles, drilled shafts and <b>caissons</b> for varying scour events and development of soil parameters.		
04/05-02/08	<b>Twin Spans Replacement Project, Orleans and St. Tammany Parishes, Louisiana.</b> Mr. Marx was a Project Engineer on the project to replace the Twin Spans bridge damaged during Hurricane Katrina. Mr. Marx coordinated the field program which consisted of 30 soil borings and over 260 CPT’s to depths between 100 and 190 feet in 15 feet of water. Mr. Marx helped develop the pile load testing program and performed axial and lateral pile capacity calculations using LRFD methodology.		

07/17 – 04/18	<b>Restore Louisiana Program – Lead Inspections.</b> Mr. Marx served as Principal In Charge for this program which included the evaluation of lead in houses enrolled in the Restore Louisiana Program established after the Louisiana flooding in 2016. As part of Fugro’s role on the project, over 750 houses were scanned for the presence of lead-based paints and samples obtained for environmental analysis.
04/13 – current	<b>Ambassador Caffery Interchange.</b> Mr. Marx was Principal-In-Charge for Fugro and provided contract oversight for the project. Work included conducting geotechnical field investigations and geotechnical analyses for the roadway project. Mr. Marx reviewed results of field and laboratory analyses and performed QA checks on deep foundation calculations, embankment settlement calculations of driven and drilled foundations and MSE Wall recommendations.
<b>Value Added to the Team:</b> As Principal-in-Charge for numerous DOTD projects completed by Fugro, Mr. Marx provides geotechnical expertise and first-hand experience in executing projects to DOTD’s exacting geotechnical specifications.	

(Add rows as needed)



## Staff Experience:

Firm employed by		<b>Fugro USA Land, Inc.</b>	
Name	<b>John M. “Jack” Koban, Jr., PhD, PE, PG</b>	Years of relevant experience with this employer	8
Title	Project Manager/Business Development	Years of relevant experience with other employer(s)	14
Degree(s) / Years / Specialization		PhD / 2017 / Earth Sciences MS / 2008 / Earth Sciences BS / 2003 / Geological Engineering	
Active registration number / state / expiration date		36060 / LA / March 31, 2021; 1045 / LA / May 10, 2020	
Year registered	2010; 2016	Discipline	Environmental; Geoscientist
Contract role(s) / brief description of responsibilities		<b>Task Order Manager, MPR No. 6.</b> Dr. Koban will be responsible for the project management and engineering analysis as described in the advertisement and subsequent task orders issued.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
<b>05/15 – current</b>	Dr. Koban joined Fugro as the Laboratory Manager with over 5 years of experience in environmental consulting and corrective action, over 4 years of experience in geotechnical engineering, and 6 years in environmental research. In addition to directing and overseeing laboratory operations for numerous DOTD projects over the past 6 years with Fugro, Dr. Koban has served to develop and strengthen relationships within the state by providing advocacy and engagement at the federal government and private level. As a board member of ASCE, he has helped to promote DOTD projects in the Engineering Community and served as a co-author for the 2017 Louisiana Infrastructure Report Card published by ASCE.		
04/17 – 11/17	<b>Phase II Environmental Site Assessment, Site Investigation, RECAP – Former TK Valve Facility.</b> Mr. Koban served as Environmental Engineer supporting field investigation and sampling as well as reporting efforts for this project		
05/15 - 03/17 08/20 – Ongoing	<b>LADOTD Statewide Geotechnical Retainer Contract, Louisiana.</b> Dr. Koban served as laboratory manager for this program which included performing over 20 task orders for bridge structures across Louisiana with a total program cost of over \$4M. The scope of work included soil borings (on land and in water), laboratory testing, engineering analysis, and design recommendations. As lab manager, Dr. Koban was responsible for assigning laboratory tests, running advanced testing procedures, and training and technical oversight of a team of laboratory technicians. Additionally, he reviewed results and developed boring logs for reporting. testing assignments, reviewed results and developed boring logs from various task orders under this contract.		
06/21-11/21	<b>Interstate 10 Calcasieu River Bridge (Task Order No. H.003931).</b> Business Development Manager. Dr. Koban served as a point of contact between Fugro and DOTD while also assisting in field coordination and data review for this marquee project which will help provide SWLA with a much-needed enhancement to one of its most critical pieces of infrastructure.		
05/05- 06/08	<b>Work under previous employer</b> – As an EI and RG in the state of TN, serving as field geologist/environmental consultant, Mr. Koban conducted numerous Phase I and II Environmental Assessments. Performed O&M on LUST site remediation systems, conducted site status monitoring as well as closure monitoring testing and reporting for the Tennessee Department of Environment and Conservation (TDEC). Oversaw UST removal and performed related environmental screening and clearance.		

06/08 – 06/10	<b>Work under previous employer</b> – Conducted Phase I Environmental Assessments for potential borrow pits related to New Orleans Levee system repairs post-Katrina.
08/12 – 05/15	<b>Academic Research and employment at the University of Memphis Groundwater Institute</b> - PhD dissertation and research related to hydrogeology, dissolved constituent transport within surface water and hyporheic zone. Taught various Geology courses at the University of Memphis, Watershed surveys as part of TN Wellhead Protection Program managed by UM GWI.
<p><b>Value Added to the Team:</b> Dr. Koban brings his experience as Lab Manager and Geotechnical Engineer for numerous Geotechnical task orders performed for DOTD over the course of his 8 years with Fugro. He provides value to the team through an understanding of DOTD’s geotechnical design and data collection guidelines. Additionally, his years as an environmental consultant managing and executing Phase II and groundwater monitoring project coupled with his time as part of the University of Memphis Groundwater Institute make him uniquely qualified to support the scopes of work anticipated under this contract.</p>	



## Experience:

Firm employed by	<b>Fugro USA Land, Inc.</b>			
Name	<b>Sam Bryant, PhD, PE</b>		Years of relevant experience with this employer	38
Title	Senior Geotechnical Consultant		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	PhD / 1983 / Civil Engineering MS / 1979 / Civil Engineering BS / 1978 / Civil Engineering			
Active registration number / state / expiration date	40695 / LA / 9-30-2022			
Year registered	2016	Discipline	Civil	
Contract role(s) / brief description of responsibilities	<b>Senior Consultant, MPR No. 4.</b> Dr. Bryant will guide engineering analyses and perform technical review on project tasks.			
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
<b>01/83 – current</b>	Dr. Bryant joined Fugro in 1983 as a manager in geotechnical engineering. He has significant experience supervising all phases of geotechnical investigations including field exploratory programs, laboratory, engineering analyses and instrumentation. Since 2013, Dr. Bryant’s work has been focused on Louisiana infrastructure projects. He has performed advanced modeling for pile capacity, drilled shaft capacity, embankment stability and settlement, earth retaining structures, pavements, seepage, and soil structure interaction. Dr. Bryant is currently serving as the lead geotechnical engineer on an oversight team for CPRA to review geotechnical analyses on two large river diversion projects. (Mid-Breton and Mid Barataria Sediment Diversion projects).			
09/13 - 03/17 08/20 - Current	<b>LADOTD Statewide Geotechnical Retainer Contract, Louisiana.</b> Dr. Bryant served as Senior Consultant for this project which included performing over 20 task orders for bridge structures across Louisiana. The scopes of work include soil borings (on land and in water), laboratory testing, engineering analysis, and design recommendations. Fugro was also retained to install geotechnical instrumentation. He provided technical guidance on select task orders.			
07/18 - Current	<b>Ambassador Caffery Interchange H.002868</b> - Dr. Bryant served as Geotechnical Engineer-of-Record for the project. This project consists of geotechnical recommendations for planned MSE walls, global stability analyses, settlement predictions and mitigation recommendations related to the I-49 south, US 90 and Ambassador Caffery interchange in Lafayette, LA			
09/17 - Current	<b>Kansas Lane, Garrett Road Connector and I-20 Improvements, Ouachita Parish, Louisiana.</b> Dr. Bryant served as Geotechnical Engineer-of-Record for the project. The project consisted of widening existing roadway with new approach embankments and bridge structures. During the project, he performed deep foundation calculations including axial capacity, lateral capacity and settlement; performed pile length calculations for each bent along the structure; and performed settlement and stability calculations for new embankments up to 20-ft in height. Global stability and settlement were also performed on MSE walls.			
09/14 - current	<b>Bridge Scour Analysis, Statewide Louisiana.</b> Dr. Bryant was a Senior Consultant for the project. Fugro was selected by the Louisiana Department of Transportation and Development (LADOTD), with the assistance of selected Design Consultants, in evaluating the stability of critical bridge structures across the state regarding scour susceptibility. Dr. Bryant has assessed complex bridge structures, specifically large river crossings and performed engineering analyses including deep foundation evaluations for varying scour events and development of soil parameters.			

02/17 – 09/17	<p><b>I-12 to Bush: LA 3241, I-12/LA 434 Interchange to LA 36, St. Tammany Parishes, Louisiana.</b> Dr. Bryant served as Geotechnical Engineer-of-Record for the project. The project consisted of widening 2.2 miles of existing roadway and designing 6.1 -miles of new roadway with several new bridges and culvert crossings.</p> <p>During the project, he performed the following tasks:</p> <ul style="list-style-type: none"> <li>• supervised the geotechnical data collection for the project including deep soil borings for structures and shallow soil borings for pavement</li> <li>• performed deep foundation calculations including axial capacity, lateral capacity and settlement</li> <li>• performed pile length calculations for each bent along the structure</li> </ul> <p>performed settlement and stability calculations for new embankments up to 20-ft in height</p>
<p><b>Value Added to the Team:</b> Over the course of Dr. Bryant’s career with Fugro, he has had abundant experience in the design of projects built in the challenging geologic environments of southern Louisiana and DOTD has repeatedly relied upon his expertise.</p>	



## Experience:

Firm employed by	<b>Fugro USA Land, Inc.</b>			
Name	<b>Paul Bullock, PhD, PE</b>		Years of relevant experience with this employer	8
Title	Chief Engineer		Years of relevant experience with other employer(s)	34
Degree(s) / Years / Specialization	PhD / 1999 / Civil Engineering MS / 1984 / Civil Engineering BS / 1980 / Civil Engineering			
Active registration number / state / expiration date	33812 / LA / 9-30-2022 (plus 20 other states)			
Year registered	2008	Discipline	Civil	
Contract role(s) / brief description of responsibilities	<b>Senior Consultant, MPR No. 4.</b> Paul will provide technical oversight for task orders with deep foundation design, integrity testing, dynamic testing, and static testing.			
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
<b>08/81 - current</b>	Dr. Bullock is a global expert specializing in site characterization, Pile Driving Analyzer testing (Expert rank), pile setup, static testing, O-Cell testing, and TIP/PIT/CSL integrity testing of cast-in-place and driven piles. In the 1980’s, he worked on 18 major bridges. From 2000 to 2004, he was an Asst. Professor at the University of Florida, followed by 4 years of testing/training for GRL Engineers / PDI. Dr. Bullock joined Fugro in 2011, mentoring staff on deep foundations for projects large and small. He is a subcommittee chair and journal editor for ASTM. His Louisiana experience covers a range of deep foundations and soils.. Dynamic (PDA), static, O-Cell, and PIT/CSL/TIP integrity testing of drilled shafts, cast-in-place, and driven piles; Design & analysis of shaft/pile capacity, pile setup and WEAP drivability; Computer analyses for settlement and foundation capacity; Drilled shaft QC/QA including Shaft Inspection Device (SID) and training courses; Driven pile QC/QA and training courses; Provide PDA/PIT/CSL training courses; Instrumentation development; Vibration monitoring; Site investigation and characterization on land & water using Dilatometer, Cone Penetrometer (electric, pore pressure, mechanical), SPT, SPT Calibrator, SPT Torque and Cone, Texam and Probex Pressuremeters. Sample projects are included below:			
03/19-03/20	<b>Calcasieu LNG, Cameron Parish, LA.</b> Principal Engineer, PDA tests and setup capacity evaluation for driven pipe piles.			
1/19-12/20	<b>Gordie Howe International Bridge, Windsor, ON and Detroit, MI.</b> Chief Engineer, analyze/review/report CSL and TIP tests for 52 test and production drilled shafts, up to 10-ft in diameter.			
05/15-07/17	<b>Cameron LNG Liquefaction, Hackberry, LA.</b> Senior Engineer, performing PDA and static tests for DeWaal Piles.			
06/10-08/11	<b>I-12 O’Neal Lane Overpass, East Baton Rouge Parish, LA.</b> Branch Manager, drilled shaft design, H-piles, PDA/CSL, post grout.			
08/10-10/11	<b>I-10 KCS Bridge, East Baton Rouge Parish, LA.</b> Branch Manager, drilled shaft/pile design, PDA/static/O-Cell/PIT/CSL tests.			
04/10-02/15	<b>Permanent Canals &amp; Closures Pumps Project, Orleans Parish, LA.</b> Princ. Engineer, PDA, setup, static tests for steel/concrete piles.			

04/14-07/14	<b>Methanex G2 Plant, Geismar, LA.</b> Principal Engineer, providing static/dynamic tests and drive criteria for prestressed concrete piles.
03/11-07/12	<b>Baton Rouge SWWTP, East Baton Rouge Parish, LA.</b> Principal Engineer, PDA and PIT for 14-inch DeWaal piles.
<b>Value Added to the Team:</b> Dr. Bullock provides the team with immense value in deep foundations experience and expertise in both pile performance and technique. Engineers and DOTs around the country have referenced his over 20 publications on deep foundation testing and design.	

(Add rows as needed)



## Experience:

Firm employed by	<b>Fugro USA Land, Inc.</b>		
Name	<b>Mike Hollier, PE</b>	Years of relevant experience with this employer	19
Title	Project Engineer	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	BS / 2005 / Civil Engineering		
Active registration number / state / expiration date	34828 / LA / 3/31/2024		
Year registered	2009	Discipline	Civil
Contract role(s) / brief description of responsibilities	<b>Location Manager – Lake Charles, MPR No. 4.</b> Mr. Hollier will manage and execute Geotechnical project phases including; proposal preparation, project initiation and coordination, field test result reviews, laboratory assignments, lab test result reviews, geotechnical engineering analyses, and report generation and review.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
<b>2003- current</b>	Mr. Hollier serves as location manager for the Lake Charles office of Fugro where he manages a variety of geotechnical projects. His experience has encompassed projects in the transportation, government, industrial and commercial sectors across southwest Louisiana since joining Fugro in 2003. During his 17 years of experience, Mr. Hollier has gained knowledge of geotechnical field & laboratory activities, construction materials testing, and geotechnical engineering. He routinely performs and oversees calculations of pile capacity, shallow bearing capacity, settlement/slope stability of embankments and site preparation activities. Mike also has experience in construction monitoring of geotechnical construction including pile installation, compaction of soils, and embankment monitoring with instrumentation. Mike’s transportation experience has been focused on infrastructure projects in southwest Louisiana. He works routinely with Calcasieu Parish, Cameron Parish and the City of Lake Charles on road/bridge improvement projects. Mike has also contributed geotechnical engineering experience on DOTD projects.		
09/13 - 03/17 08/20 – 01/23 01/-current	<b>LADOTD Statewide Geotechnical Retainer Contract, Louisiana.</b> Mr. Hollier served as Task Order Manager and Project Engineer for this project which included performing over 20 task orders for bridge structures across Louisiana. The scopes of work include soil borings (on land and in water), laboratory testing, engineering analysis, and design recommendations.  The bridge projects managed by Mr. Hollier includes the <b>Interstate 10 Calcasieu River Bridge (Task Order No. H.003931)</b> during 2021. For this project, 72 soil borings, laboratory testing, and data reporting were performed for the main bridge structure, overpasses, and pavements. Fugro received high remarks regarding performance on this time sensitive project.		
08/20 - 07/21	<b>LADOTD, I-49 South: Ambassador Caffery and U.S. 90 Interchange, Duplantis Design Group, Lafayette Parish, Louisiana.</b> Location Manager/Geotechnical Engineer of Record. The project included 56 soil borings and 17 Cone Penetrometer Tests, laboratory testing, and driven pile recommendations for bridge/overpass structures and settlement analyses for embankments. Mr. Hollier provided technical review and oversight for the project.		
11/19 – 05/20	<b>Calcasieu Parish Police Jury (CPPJ), Sara Street Bridge Replacement, Blue Wing Civil Consulting, LLC, Sulphur, Louisiana.</b> Location Manager/Geotechnical Engineer of Record. CPPJ plans to replace the existing bridge located along Sara Street in Sulphur, Louisiana with a new slab span bridge supported on precast concrete pile foundations. Mr. Hollier provided technical review and oversight for this project.		

08/17 – 12/17	<b>City of Lake Charles, West Prien Lake Road Reconstruction, D. W. Jessen &amp; Associates, L.L.C., Lake Charles, Louisiana.</b> Location Manager. The City of Lake Charles is planning for the reconstruction of West Prien Lake Road extending southward to Ihles Road as well as the reconstruction of Sale Road from its intersection with Prien Lake Road to its intersection with Rue Chan Ann Lane as well as a portion of Henderson Bayou Road in Lake Charles, LA. Mr. Hollier provided technical review and oversight for this project.
07/14 - 10/14	<b>Calcasieu Parish Police Jury (CPPJ), River Road Bridge Replacement, Parish Barn Road Bridge Replacement, Metzger Road Bridge Replacement, Aucoin &amp; Associates, Inc., Calcasieu Parish, Louisiana.</b> Location Manager. CPPJ plans to replace the existing bridges located along River Road, Parish Barn Road, and Metzger Road in Calcasieu Parish, Louisiana with a new bridges supported on precast concrete pile foundations or box culverts. Mr. Hollier provided technical review and oversight for these projects.
<b>Value Added to the Team:</b> Mr. Hollier provides the team with a wealth of local knowledge and geotechnical expertise in SWLA. For Task Order No. H.003931, managed by Mr. Hollier, positive remarks were received per LADOTD Technical Evaluation ID 4717 regarding the quality of deliverables, management and communication, and schedule.	

(Add rows as needed)



### Staff Experience:

Firm employed by		<b>Fugro USA Land, Inc.</b>	
Name	<b>Mike Allen, PG</b>	Years of relevant experience with this employer	20
Title	Geoscientist	Years of relevant experience with other employer(s)	15
Degree(s) / Years / Specialization		BS / 1986 / Geology OSHA 40-hour HAZWOPER Supervisor	
Active registration number / state / expiration date		165 / LA / 2022	
Year registered	2003	Discipline	Geoscientist
Contract role(s) / brief description of responsibilities		<b>Field Crew Supervisor, MPR No. 5.</b> Mr. Allen will supervise drilling operations for task orders and provide technical oversight of environmental and geological aspects of task orders issued under this contract	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
<b>2003 – Current</b>	<p>Mike Allen has overseen the geotechnical field operations for high profile Fugro projects in Louisiana since 2003. He brings over 32 years of geotechnical and environmental field experience which includes the development, oversight, logging and characterization of soil exploration, all in Louisiana. His project experience covers geotechnical and environmental services for transportation, industrial, coastal and commercial applications.</p> <p>As part of his duties, Mike works to determine access and equipment requirements. He has executed field programs for DOTD that included land-based trucks and ATV mounted equipment for conventional access all the way to marsh-buggy and lift-boat mounted equipment for marine access. His responsibilities include administrative and project management, coordination with drillers and CPT crews and following specific DOTD sampling protocols</p>		
06/21-11/21	<b>Interstate 10 Calcasieu River Bridge (Task Order No. H.003931).</b> Field Manager. For this project, 72 soil borings, laboratory testing, and data reporting were performed for the main bridge structure, overpasses, and pavements. Mr. Allen provided field oversight and logging services in order to complete this project ahead of schedule and on budget.		
11/05 – 12/08	<b>I-10 Twin Spans Replacement Project, Orleans and St. Tammany Parishes, Louisiana.</b> As part of the replacement of the I-10 Twin Spans damaged during Hurricane Katrina, an extensive geotechnical data collection campaign was conducted. The program included performing over 30 Soil Borings to depths up to 200-ft below the mudline. The borings were performed in up to 15-ft of open water using lift-boat mounted equipment. Mike managed the data acquisition which required close communication with DOTD due to the accelerated schedule on the project. The project was completed on schedule which helped advance the design of the emergency project		
05/04 – 06/19	<b>Statewide Louisiana Bridge Scour Program.</b> DOTD was performing evaluations of bridge scour Statewide. At select bridge locations, borings were performed to acquire data where gaps were noted. Mike managed field operations for this program for over 40 bridge locations which has lasted over 15 years and required access of land- and marine based equipment		
06/08 – 06/12 05/12 - 03/17 08/20 – Ongoing	<b>Statewide Louisiana Retainer Contract.</b> DOTD has assigned over 50 task orders as part of three separate Geotechnical Retainer contracts. Mike has assisted in the coordination and execution of these task orders which included borings and CPTs in both land and marine environments.		

	<p><b>Value Added to the Team:</b> Mr. Allen's decades of experience and extensive knowledge of geology in Louisiana provides the team with expertise to deliver excellence to DOTD. Additionally, Mr. Allen's experience in environmental assessment and monitoring projects at the subject site provide the team with directly relevant insight into the geological and environmental conditions of this project.</p>
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**Staff Experience:**

Firm employed by	<b>Fugro USA Land, Inc.</b>		
Name	<b>Peter Cole</b>	Years of relevant experience with this employer	9
Title	Environmental Services Manager	Years of relevant experience with other employer(s)	13
Degree(s) / Years / Specialization	BS / 2000 / Industrial Technology		
Active registration number / state / expiration date	OSHA 40-hour HAZWOPER Emergency Response Certification, OSHA 40-hour HAZWOPER Supervisor		
Year registered		Discipline	
Contract role(s) / brief description of responsibilities	<b><i>Environmental Services Manager and Project Coordinator MRP No. 7.</i></b> Mr. Cole will manage and execute Geotechnical project phases including; proposal preparation, project initiation and coordination.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
12/13-Present	Mr. Cole currently services as Environmental Services Manager and has overseen, managed, and performed numerous Phase I and Phase II Environmental Site Assessments (ESAs), in depth Site Investigations, UST removals, development of Work Plans/Corrective Action Plans, soil remediation via removal and disposal, monitoring well installations, groundwater remediation, risk evaluations (RECAP), and various LDEQ consulting projects including VRP program enrollment and other various projects involving sampling of soil and groundwater on commercial and industrial properties. Additionally, Mr. Cole serves as project manager for various geotechnical projects including infrastructure, buildings, and industrial developments.		
05/15 – 03/17 08/20 – Ongoing	<b>LADOTD Statewide Geotechnical Retainer Contract, Louisiana.</b> Mr. Cole has served as Project Manager for this program which included performing over 20 task orders for bridge structures across Louisiana with a total program cost of over \$7M. The scope of work included soil borings (on land and in water), laboratory testing, engineering analysis, and design recommendations. Fugro was also retained to install geotechnical instrumentation.		
03/21-10/21	<b>LA Highway 16 Bridges (Isabel to Sun) St. Tammany Parish, LA (H.013984)</b> This project consisted of 10 borings and 10 CPT soundings covering 5 separated bridge structures along LA Hwy 16 in St. Tammany Parish. Mr. Cole served as Project Manager for this project		
06/21-11/21	<b>Interstate 10 Calcasieu River Bridge (Task Order No. H.003931).</b> For this project, 72 soil borings, laboratory testing, and data reporting were performed for the main bridge structure, overpasses, and pavements. Mr. Cole provided Project Management services for this project.		
11/21-01/22	<b>US 51 Yellow Water Bridge Tangipahoa Parish, LA (H.012071.5)</b> This project consisted of 4 borings across a bridge structure near Hammond Louisiana. Mr. Cole served as Project Manager to for this project		
03/22-Present	<b>Colewa-Deleamar Bayou Bridges Replacement (H.012032)</b> This project consists of 6 boings between two separate bridge structures in northern Louisiana. Mr Cole is currently serving as Project Manager for this task order.		
<b>Value Added to the Team:</b> Mr. Cole provides the team with extensive environmental experience and an understanding of managing contracts with DOTD.			

(Add rows as needed)

**Staff Experience:**

Firm employed by		<b>Fugro USA Land, Inc.</b>	
Name	<b>Karen Emert, PG, QSD</b>		Years of relevant experience with this employer
Title	Sr. Geologist		19
Degree(s) / Years / Specialization		BS / 2004 / Geology	
Active registration number / state / expiration date		8788 / CA / 2024 Qualified SWPPP Developer, California, No. G08788 (Issued August 2014; Current) 40-Hour HAZWOPER Certified (Issued May 27, 2005; Current) 8-Hour HAZWOPER Supervisor Certified (Issued December 4, 2015; Current)	
Year registered	2010, 2014, 2005, 2015	Discipline	Geology
Contract role(s) / brief description of responsibilities		<b>Senior Geologist.</b> Ms Emert will provide support and expertise in the assessment and management of DNAPL contamination as well as consultation related to hydrogeology for the project.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
<b>2005 – current</b>	In over 19 years of professional experience, Ms. Tonkovich has developed a range of capabilities involving writing Phase I and Phase II Environmental Site Assessments, data research and collection, underground storage tank removals/closures, hydrogeologic investigations, site characterization studies, hazardous materials facility closures, remedial investigations, feasibility studies, and various site and waste characterizations to support infrastructure improvement projects. She is also proficient in the assessment and remediation of DNAPL and LNAPL contamination sites		
03/12 - Ongoing	<b>California Department of General Services, Former Mercury Cleaners, Sacramento, CA.</b> Senior Geologist — Ms. Tonkovich has assisted with the assessment, investigation, and remedial oversight for soil and groundwater impacts resulting from historic releases at the former dry cleaner. She has reviewed results of environmental studies conducted by others, as well as implemented data gap studies and groundwater investigations to further assess DNAPL site conditions in accordance with requirements from the RWQCB. Studies to date have involved indoor air quality studies, remedial investigations, installation and monitoring of a network of over 40 wells, and preparation of technical work plans and reports.		
2012 - 2013	<b>California Department of General Services, Tahoe Meadows Groundwater Investigation, South Lake Tahoe, CA.</b> Project Manager — Fugro was retained by the Lahontan Regional Water Quality Control Board to complete a groundwater investigation at and near the Tahoe Meadows subdivision in South Lake Tahoe, California. Previous investigations conducted by others identified tetrachloroethene and MTBE contamination in domestic water wells within the Tahoe Meadows subdivision. Ms. Tonkovich managed the investigation to evaluate the vertical and lateral distribution of certain DNAPL VOC impacts to groundwater beneath the Site. The investigation utilized high-resolution tools to collect the subsurface data. Ms. Tonkovich coordinated all activities with Lahontan RWQCB and DGS personnel.		
2007 - 2012	<b>Equity One, Former Mission Cleaners, Fairfield, CA.</b> Project Manager— Ms. Tonkovich has planned and implemented various site investigations including groundwater monitoring, well installation, and a CPT/MIP study. Groundwater data generated from the various studies was used to map flow direction of a DNAPL VOC plume and perform a preferential pathway study. Ms. Tonkovich also prepared a Site Conceptual Model for the RWQCB to characterize the site for eventual closure in early 2012. Ms. Tonkovich routinely negotiated with RWQCB, and all work conducted at the site was performed with RWQCB oversight and approval.		
2007 - 2014	<b>Buttner Properties, Dave’s Station, 2250 Telegraph Avenue, Oakland, CA.</b> Project Manager — Ms. Tonkovich planned and implemented various LNAPL site investigations at this former gasoline service station site. Investigations included collection of soil, soil-vapor, and groundwater samples, as well as the completion of quarterly groundwater monitoring of eight wells located at and in the vicinity of the site. Ms. Tonkovich also prepared the Corrective Action Plan that was implemented at the site following the demolition of the building. She assisted the client with preparation of annual budgets and cost reimbursement documents for the State’s UST Fund, and routinely consulted with the Local Enforcement Agency regarding site investigation activities as the site moved toward regulatory case closure.		

2007 - 2008	<b>City of Livermore, Downtown Redevelopment Area – Brownfields Grant, Livermore, CA.</b> Senior Geologist — Ms. Tonkovich assisted the City of Livermore with the Brownfields Grants from the USEPA that the City won to characterize the Downtown Redevelopment Area. Ms. Tonkovich assisted with the development of a scope of soil, groundwater, and soil-vapor testing to evaluate the presence, extent, and potential human health risk associated with historical sites uses. Key to the process was Fugro’s negotiation with Alameda County Health Services, the RWQCB, and the USEPA to provide the City with efficient consulting services as well as to strategize about the various agency concerns in the Downtown Core area. Fugro detailed the proposed site characterization activities in a Sampling and Analysis Plan (SAP) as required by the EPA, including the appropriate discussion regarding Data Quality Objectives (DQOs) and Indicators (DQIs).
<b>Value Added to the Team:</b> Ms. Emert brings to the team extensive knowledge of hydrogeology and DNAPL contaminant characterization and remediation.	

**Staff Experience:**

Firm employed by		<b>Fugro USA Land, Inc.</b>	
Name	<b>Jeriann Alexander, PE, REPA</b>	Years of relevant experience with this employer	39
Title	Principal Engineer	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		MS / 1984 / Civil Engineering BS / 1983 / Agricultural Engineering	
Active registration number / state / expiration date		40469 / CA Registered Environmental Property Assessor, National No. 516237 Certified Environmental and Safety Compliance Officer (CESCO), National No. 205982, 2013 OSHA 29 CFR 1910.120 40-hr. Hazardous Waste Training (current) OSHA 29 CFR 1910.120 8-hr. Training for Supervisors (current)	
Year registered		Discipline	Civil
Contract role(s) / brief description of responsibilities		<b>Sr Project Engineer.</b> Ms. Alexander will provide consulting services related to environmental assessments and hydrologic scopes.	
Experience dates (mm/yy–mm/yy)		Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).	
<b>1985 – current</b>		Ms. Alexander brings over 35 years of environmental consulting experience to Fugro. Her environmental experience and training are uniquely complimented by her understanding and practical application of civil and geotechnical engineering practices coupled with safety and environmental compliance. Projects benefit from her broad experience and knowledge of mechanical processes and waste stream generation and disposal practices. Projects have included Phase I and II Environmental Site Assessments (ESA), facility regulatory environmental compliance audits, underground storage tank removals/closures, site characterization studies, hydrogeologic evaluations, NPDES discharge permit requirement assessments, remedial investigations, feasibility studies, and risk assessments. She has consulted on sites containing soil and/or groundwater impacted by lead; chromium; cyanide; DDT and other chlorinated pesticides and herbicides, fertilizers; cleaning solvents including Naphtha, PCE and TCE; DNAPLs and LNAPLs; oil containing PCB's; methane; waste oil; the full range of motor vehicle fuels; mine tailings; and incinerator wastes containing dioxin	
2012 - Ongoing		<b>California Department of General Services, Former Mercury Cleaners, Sacramento, CA.</b> Lead Hydrogeologic Investigator — Responsible for assessing environmental impacts to groundwater due to past dry-cleaning solvent releases. Three water bearing units below the site have been impacted by releases of dry cleaning compounds including VOCs and petroleum based liquids. Directed and conducted historic research to identify potential responsible parties, and migration pathways. Designed and negotiated installation of a monitoring well network with the local LEA, RWQCB. Development of plans and specifications for building removal, SVE pilot testing, groundwater injection pilot testing, and electrical resistance heating source removal actions all under the RWQCB oversight.	
2018 - Ongoing		<b>College Claremont Ventures, Inc., Red Hanger Kleaners, Oakland, CA.</b> Lead Hydrogeologic Investigator — Investigations at the Red Hanger Kleaners started in 2005 after a Phase I ESA identified historical dry-cleaning operations at the Site since 1987. Several phases of investigation have been conducted by others and have included the installation of groundwater monitoring wells, soil-vapor probes, and sub-slab vapor pins. Remedial activities also conducted by others included the installation of a Soil-Vapor Extraction (SVE) and treatment system in June 2016, which was designed to operate both an interior and exterior vapor extraction circuits. Between 2016 and 2018, the SVE system was turned off due to the ineffectiveness in controlling the soil vapor cloud below the site. In 2018, Ms. Alexander was contracted to provide assessment of the environmental impacts to soil soil-vapor, and groundwater due to the past dry-cleaning solvent releases. Ms. Alexander also was responsible for evaluating the effectiveness of the existing SVE system. Based on the results of the assessment, modifications and optimization of the system were performed including the installation of additional soil vapor extraction probes to correctly target the vapor cloud below the site.	

2002 - 2012	<p><b>Former Mission Village Dry Cleaners, Fairfield, CA.</b> Ms. Alexander assisted with the management of the investigation, strategic planning, corrective action plan and implementation, and groundwater remediation services at this former dry cleaner. Site characterization of the DNAPL plume was completed using CPT and MIP technology to complete high-resolution subsurface characterization of the PCE groundwater plume. Services included a feasibility study to determine the cost and effectiveness of in situ enhancement for the biodegradation of dry cleaner solvents at the site. Hydrogen Releasing Compounds from Regenesis were delivered to the target areas within the plume using direct push drilling equipment. Groundwater monitoring demonstrated that the in-situ biodegradation has been effective. The RWQCB's Low Threat Closure process was used to procure a No Further Action determination from the RWQCB.</p>
1994 - 2005	<p><b>Ninth Avenue Marine Terminal, Environmental Site Assessment/Strategic Consultation, Port of Oakland, CA.</b> Fugro was the prime consultant from 1995 to 2005 for the 24-acre Ninth Avenue Terminal property in the Oakland Inner Harbor Coordinated multiple, phased, extensive environmental assessment and investigation activities, and provided litigation and cost recovery services, to evaluate the past operations of over 100 businesses that had/have occupied the property since the late 1890s including a cannery; lumber companies; metal plating, recycling and refinishing businesses; fertilizer formulators; chemical warehousing; bulk fuel processing; and general drayage. Hazardous materials and chemical contaminants known to have impacted the soil and groundwater resources include heavy metals, solvents (volatile organic compounds [VOCs]), cyanide, pesticides, hexavalent chromium, and petroleum hydrocarbons. There are also methane vapor plumes below former bulk petroleum processing plants.</p> <p>Services included: (1) compilation and review of historical records; (2) soil, soil-gas, and groundwater investigations to collect litigation-quality data, (3) assessment of a complex network of abandoned and active utilities acting as potential preferential pathways for contaminant migration; (4) evaluation of remedial alternatives and costs for site redevelopment scenarios; (5) compliance groundwater monitoring and (6) litigation support for cost recovery efforts. Field activities were conducted in compliance with HSE guidelines and regulations. Ms. Alexander aided the Port in all communications with the lead regulatory agencies, the ACHCSA and RWQCB. Her exhaustive efforts and shoulder-to-shoulder collaboration with Port staff and its outside counsel have resulted in the Port's successful cost recovery actions from PRPs. Reporting included: ESAs, Site Characterization Reports, Storm Water Control Evaluation Reports, Soil Vapor Survey Report, Infiltration and Inflow Survey and Evaluation Report, UST Reports, and Remedial Action Evaluation Reports.</p>
<p><b>Value Added to the Team:</b> Mr. Collins brings to the team decades of experience in coordinating and executing well drilling in Louisiana.</p>	



### Staff Experience:

Firm employed by	<b>Fugro USA Land, Inc.</b>		
Name	<b>Robert Johnson</b>	Years of relevant experience with this employer	5
Title	Laboratory Manager	Years of relevant experience with other employer(s)	11
Degree(s) / Years / Specialization	High School Diploma		
Active registration number / state / expiration date			
Year registered		Discipline	
Contract role(s) / brief description of responsibilities	<b>Laboratory Manager.</b> Mr. Johnson will perform advanced testing, oversees quality control and training of the geotechnical laboratory personnel, daily data reduction using gINT, Excel and Geosystems, and calibrations of laboratory testing equipment.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
<b>2010 – current</b>	<p>Robert Johnson has spent the last 10 years of his career dedicated to the management and performance of geotechnical laboratory functions in Louisiana. Starting in 2010, Robert started working with Gulf Shores Construction Services and was responsible for performing and managing geotechnical testing as part of ongoing civil works projects. The work required development and maintenance of national certifications and validations per project requirements. Robert was instrumental in achieving certification with AASHTO and the Corps of Engineers. Robert joined the Fugro Baton Rouge laboratory in 2018 as manager and brought his experience to maintain Fugro’s high standards of laboratory data acquisition. Robert currently manages a staff of 4 laboratory technicians focused on measuring soil parameters needed for site characterization. Robert maintains Fugro’s AASHTO certification, Corps of Engineers validation and Louisiana Department of Environmental Quality (LELAP) certifications for the Baton Rouge laboratory.</p> <p>Some of Robert’s specific DOTD experience includes soil testing for the Statewide Bridge Scour program and Kansas Lane project. Laboratory tests that Robert is proficient with include:</p> <ul style="list-style-type: none"> <li>▪ pH of soils</li> <li>▪ Unconfined Compression</li> <li>▪ Organic Content</li> <li>▪ Unconsolidated-Undrained Triaxial Compression</li> <li>▪ Hydrometer Analysis</li> <li>▪ Atterberg Limits</li> <li>▪ Atterberg Limits</li> <li>▪ Sieve Analysis</li> <li>▪ Permeability</li> <li>▪ Moisture Density Relationship (Proctor)</li> <li>▪ Specific Gravity</li> <li>▪ One Dimensional Consolidation Tests</li> <li>▪ Cement and Lime-Treated Bench Scale Testing</li> </ul>		
06/21-11/21	<b>Interstate 10 Calcasieu River Bridge (Task Order No. H.003931).</b> Lab Manager. For this project, 72 soil borings, laboratory testing, and data reporting were performed for the main bridge structure, overpasses, and pavements. Mr. Johnson oversaw laboratory testing allowing Fugro to complete this project ahead of schedule and on budget.		

03/21-10/21	<b>LA Highway 16 Bridges (Isabel to Sun) St. Tammany Parish, LA (H.013984)</b> This project consisted of 10 borings and 10 CPT soundings covering 5 separated bridge structures along LA Hwy 16 in St. Tammany Parish. Mr. Johnson served as Laboratory Manager for this project
11/21-01/22	<b>US 51 Yellow Water Bridge Tangipahoa Parish, LA (H.012071.5)</b> This project consisted of 4 borings across a bridge structure near Hammond Louisiana. Mr. Johnson served as Laboratory Manager for this project
03/22-Present	<b>Colewa-Delemar Bayou Bridges Replacement (H.012032)</b> This project consists of 6 boings between two separate bridge structures in northern Louisiana. Mr. Johnson is currently serving as Laboratory Manager for this project
03/19-08/20	<b>Calcasieu Pass LNG (CPLNG) – Kiewit, Cameron, Louisiana.</b> Lab manager/representative. Venture Global (Kiewit) recently constructed an LNG export facility in Cameron, LA. Mr. Johnson has served an integral role in the planning, and initiation of the early soils scope related to the site stabilization and construction materials testing for the project. Part of his duties was to oversee sampling, testing, and providing daily data reporting and correspondence to project EPC, Kiewit.
<b>Value Added to the Team:</b> Mr. Johnson provides the contract team with over a decade of laboratory experience and a familiarity with DOTD testing guidelines.	

(Add rows as needed)



### Staff Experience:

Firm employed by	<b>Fugro USA Land, Inc.</b>			
Name	<b>Steve Williams</b>		Years of relevant experience with this employer	35
Title	Exploration Service Line Director, Americas		Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization		A-Level – Geology, Helston Community College O-Levels in English, Physics, Geography and Biology, Mullion Comprehensive School CSE`s in History, Mathematics, French, Spanish and English Literature, Mullion Comprehensive School		
Active registration number / state / expiration date				
Year registered		Discipline		
Contract role(s) / brief description of responsibilities		<b>Drilling Supervisor/Manager.</b> Mr. Williams will perform oversight for geotechnical and environmental drilling activities.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
<b>1986 – current</b>	Mr. Williams has considerable operational and managerial experience in offshore, nearshore (coastal) and onshore geotechnical ground investigations, surveys and exploration drilling gained over a 33-year career within the industry. He also has depth experience in the execution and project management of marine operations conducted from anchored and dynamically positioned vessels, anchored and spud legged barges and self-elevating platforms (jack-up platforms / self-elevating platforms). He also oversees soil and sediment sampling. In 2019, Steve assumed the position of Exploration Service Line Director for the Americas Region. Based in Houston, Steve manages the fleet of exploration resources in the Gulf Coast Region including over 10 drilling crews and 5 CPTs. Steve has a specialty expertise for assessing nearshore site conditions and delivering data acquisition in difficult environments.			
03/21-10/21	<b>LA Highway 16 Bridges (Isabel to Sun) St. Tammany Parish, LA (H.013984)</b> This project consisted of 10 borings and 10 CPT soundings covering 5 separated bridge structures along LA Hwy 16 in St. Tammany Parish. Mr. Williams directed exploration activities.			
06/21-11/21	<b>Interstate 10 Calcasieu River Bridge (Task Order No. H.003931).</b> Exploration Manager. For this project, 72 soil borings, laboratory testing, and data reporting were performed for the main bridge structure, overpasses, and pavements. Mr. Williams served as exploration director for this project which utilized multiple rigs and drilling crews simultaneously in order to meet the deadline for the project.			
11/21-01/22	<b>US 51 Yellow Water Bridge Tangipahoa Parish, LA (H.012071.5)</b> This project consisted of 4 borings across a bridge structure near Hammond Louisiana. Mr. Williams directed exploration activities.			
11/19 – 01/20	<b>Houston Ship Channel Widening, Houston, Texas.</b> Project Manager. Seabed hazard survey and 103 geotechnical borings for the Port of Houston. Steve managed the project execution for Fugro which included marine based borings and logistics with ports and the Coast Guard. Project Fee - \$1.1M			
05/2019 – 11/19	<b>Enbridge Line 5 Crossing, Straits of Mackinac, Lake Michigan.</b> 18 geotechnical borings, downhole geophysical and insitu testing, laboratory testing and reporting. Steve managed the project execution and client interface, Project Fee - \$23M.			
<b>Value Added to the Team:</b> Mr. Williams brings with him decades of experience providing exploration services in some of the world’s most challenging environments. This experience will allow for efficient and effective execution of task orders awarded through this contract.				

(Add rows as needed)



### Staff Experience:

Firm employed by	<b>Fugro USA Land, Inc.</b>			
Name	<b>Andrew Bull, E.I.</b>		Years of relevant experience with this employer	5
Title	Project Professional		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		BS / 2017 / Civil Engineering		
Active registration number / state / expiration date		PE 47125 / LA / 03/31/2025		
Year registered	2022	Discipline	Civil	
Contract role(s) / brief description of responsibilities		<b>Project Engineer.</b> Mr. Bull will execute geotechnical project phases including project initiation/planning, coordination, review of field data collection, laboratory assignments, geotechnical engineering analyses, and report generation		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
05/18-Present	Since Joining Fugro in 2018, Mr. Bull has had experience in the Louisiana and Southeast Texas region on nearshore and onshore sampling, field coordination, field project management, construction monitoring (HDD, Deep Soil Mixing, and roadways), data acquisition/interpretation/utilization, reporting, and analysis. Experience in engineering including deep/shallow foundations for structures, Hydro-fracture analysis, and structural steel design, Geotechnical Lab applications			
6/21 – 12/21	<b>LADOTD – Interstate 10 (I-10) Calcasieu River Bridge (H.003931), Calcasieu Parish, Louisiana.</b> <b>Project Professional.</b> LADOTD is currently planning for the design and construction of a new I-10 bridge crossing at the Calcasieu River. For this project, 72 soil borings, laboratory testing, and data reporting were performed for the main bridge structure, overpasses, and pavements <b>Mr. Bull provided coordination of all drilling/field exploration activities, reviewed field and laboratory data, and aided in the data reporting.</b>			
1/21 – 3/21	<b>Calcasieu Parish Police Jury (CPPJ), Aucoin &amp; Associates, Inc. North Perkins Ferry Road Bridge, Calcasieu Parish, Louisiana.</b> Staff Professional. CPPJ is currently replacing the existing bridge located on North Perkins Ferry Road near Moss Bluff in Calcasieu Parish with a new slab span bridge supported on precast concrete piles. Mr. Bull provided field PDA data collection for this project.			
10/18 – 12/18	<b>Interstate 20 (I-20) – Kansas Lane – Garrett Road Connector, Monroe, Louisiana.</b> Staff Engineer. LADOTD plans to modify and improve the Kansas Lane to Garrett Road connection at the intersection of I-20 in Monroe, Louisiana with the addition of a new overpass bridge, roundabouts, and new interstate entrance and exit ramps. Mr. Bull provided field coordination services and support.			

**Value Added to the Team:** Mr. Bull provides the team with a demonstrated history of smooth and safe coordination/execution of field operations. Additionally, Mr. Bull has significant technical experience for providing geotechnical and foundation engineering recommendations and field oversight of installations.

(Add rows as needed)



### Staff Experience:

Firm employed by	<b>Fugro USA Land, Inc.</b>			
Name	<b>Deborah Meyer-Sayer</b>		Years of relevant experience with this employer	15
Title	CADD Technician		Years of relevant experience with other employer(s)	31
Degree(s) / Years / Specialization				
Active registration number / state / expiration date				
Year registered		Discipline		
Contract role(s) / brief description of responsibilities		<b>Deliverables.</b> Ms. Meyer-Sayer will be responsible for plotting laboratory results on projects and site drawings as well as data management for all projects		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
<b>2008 – current</b>	Ms. Deborah Meyer-Sayer joined Fugro in 2008 and has over 30 years’ experience in drafting/AutoCAD in a geotechnical environment, all in Louisiana. Over the course of her career, she has maintained the DOTD geotechnical database and has kept up with the evolution of DOTD reporting protocols. She has consulted with DOTD on boring log presentation and development of new templates for reporting. She is responsible for plotting laboratory results on projects and site drawings and has experience with AutoCAD and gINT, the primary reporting tool for DOTD. Debbie is leading the implementation of GIS tools for geotechnical applications in Louisiana. Debbie also performs QA checks on laboratory data and is intimately familiar with DOTD testing protocols having been involved on these tasks during her career.			
05/15 – 03/17 08/20 – Ongoing	<b>LADOTD Statewide Geotechnical Retainer Contract, Louisiana.</b> Ms. Meyer-Sayer served as CADD Technician and Data Manager for this program which included performing over 20 task orders for bridge structures across Louisiana with a total pro-gram cost of over \$4M. The scope of work included soil borings (on land and in water), laboratory testing, engineering analysis, and design recommendations. Fugro was also retained to install geotechnical instrumentation. Ms. Meyer-Sayer worked closely with DOTD to format and generate logs and maintain data through gINT database program for various task orders under this contract.			
07/18 - Current	<b>Ambassador Caffery Interchange H.002868</b> – Ms. Meyer-Sayer serves as CADD Technician and Data Manager for the project. This project consists of geotechnical recommendations for planned MSE walls, global stability analyses, settlement predictions and mitigation recommendations related to the I-49 south, US 90 and Ambassador Caffery interchange in Lafayette, LA			
03/21-10/21	<b>LA Highway 16 Bridges (Isabel to Sun) St. Tammany Parish, LA (H.013984)</b> This project consisted of 10 borings and 10 CPT soundings covering 5 separated bridge structures along LA Hwy 16 in St. Tammany Parish. Ms. Meyer-Sayer served as CADD Technician and Data Manager to compile laboratory data and generate deliverables such as graphical logs.			
06/21-11/21	<b>Interstate 10 Calcasieu River Bridge (Task Order No. H.003931).</b> For this project, 72 soil borings, laboratory testing, and data reporting were performed for the main bridge structure, overpasses, and pavements. Ms. Meyer-Sayer served as CADD Technician and Data Manager which included lab testing data management and log generation for all 72 borings.			
11/21-01/22	<b>US 51 Yellow Water Bridge Tangipahoa Parish, LA (H.012071.5)</b> This project consisted of 4 borings across a bridge structure near Hammond Louisiana. Ms. Meyer-Sayer served as CADD Technician and Data Manager to compile laboratory data and generate deliverables such as graphical logs			
<b>Value Added to the Team:</b> Ms. Meyer-Sayer has over three decades of experience in CADD and Data Management. Additionally, she has worked extensively with DOTD allowing her to provide the utmost quality deliverables.				



### Staff Experience:

Firm employed by		<b>Fugro USA Land, Inc.</b>	
Name	<b>David Cormier, PLS</b>	Years of relevant experience with this employer	7
Title	Operations Manager	Years of relevant experience with other employer(s)	38
Degree(s) / Years / Specialization		AS / 1984 / Civil Engineering Technology	
Active registration number / state / expiration date		PLS.00004715, State of Louisiana, Expires 09/30/2022	
Year registered		Discipline	Professional Land Surveyor
Contract role(s) / brief description of responsibilities		<b>Professional Land Surveyor.</b> Mr. Cormier will be responsible for managing tasks that include positioning and survey requirements. He will lead any tasks related to boundary surveys, topographic surveys and right-of-way determination.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
<b>1985 – current</b>	Mr. Cormier joined Fugro as a land surveyor in 2015 and has over 38 years professional land survey experience in Louisiana. Recent projects where he managed services related to the scope of services in the Advertisement are included below.		
05/16 – 03/17 08/20 – Ongoing	<b>LADOTD Statewide Geotechnical Retainer Contract, Louisiana.</b> Mr. Cormier has served as Professional Land Surveyor for this program which included performing over 20 task orders for bridge structures across Louisiana with a total program cost of over \$7M.		
03/21-10/21	<b>LA Highway 16 Bridges (Isabel to Sun) St. Tammany Parish, LA (H.013984)</b> This project consisted of 10 borings and 10 CPT soundings covering 5 separated bridge structures along LA Hwy 16 in St. Tammany Parish. Mr. Cormier has served as Professional Land Surveyor.		
06/21-11/21	<b>Interstate 10 Calcasieu River Bridge (Task Order No. H.003931).</b> For this project, 72 soil borings, laboratory testing, and data reporting were performed for the main bridge structure, overpasses, and pavements. Mr. Cormier has served as Professional Land Surveyor.		
11/21-01/22	<b>US 51 Yellow Water Bridge Tangipahoa Parish, LA (H.012071.5)</b> This project consisted of 4 borings across a bridge structure near Hammond Louisiana. Mr. Cormier has served as Professional Land Surveyor		
03/22-Present	<b>Colewa-Delemar Bayou Bridges Replacement (H.012032)</b> This project consists of 6 boings between two separate bridge structures in northern Louisiana. Mr. Cormier has served as Professional Land Surveyor.		
<b>Value Added to the Team:</b> Mr. Cormier provides value to the team through his decades of experience as a Professional Land Surveyor in Louisiana which allows him to plan and execute projects efficiently and effectively.			

(Add rows as needed)

**Staff Experience:**

Firm employed by	<b>Fugro USA Land, Inc.</b>			
Name	<b>Sheldon Collins</b>		Years of relevant experience with this employer	31
Title	Service Line Manager - CPT		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization				
Active registration number / state / expiration date		Licensed Driller: TX, OK, MI, LA		
Year registered		Discipline		
Contract role(s) / brief description of responsibilities		<b>Louisiana Certified Well Driller.</b> Mr. Sheldon will guide scopes of work and access capabilities for CPT task orders and be responsible for the day to day operations of CPT tasks as well as oversight of well installations and P&A activities.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
<b>1990 – current</b>	Sheldon Collins has devoted his career to the development and execution of site characterization using Cone Penetration Testing (CPT) technology. His project experience covers geotechnical and environmental services for transportation, industrial, coastal and commercial applications across the United States. Locally, Sheldon has been a consultant to DOTD on operational issues with CPT equipment that Fugro built for the department, including calibrating the DOTD cones for the last 30 years.			
03/21-10/21	<b>LA Highway 16 Bridges (Isabel to Sun) St. Tammany Parish, LA (H.013984)</b> This project consisted of 10 borings and 10 CPT soundings covering 5 separated bridge structures along LA Hwy 16 in St. Tammany Parish. Mr. Collins directed CPT activities.			
2003 - 2004	<b>LA1 Relocation, Lafourche Parish, Louisiana.</b> DOTD was having trouble acquiring CPT data to target depths as part of the geotechnical exploration program for the LA1 Relocation project. DOTD reached out to Fugro to develop a system where CPT data could be captured to the desired depths. Sheldon managed the CPT operation of using air-boat mounted equipment that was sunk for additional pushing capacity. Due to the very soft soil conditions, three levels of casing were needed to provide the rod rigidity needed to capture CPT data to depths of 200-ft below the mudline. The acquired data helped DOTD design an efficient foundation alternative while reducing field costs.			
11/05 - 12/08	<b>I-10 Twin Spans Replacement Project, Orleans and St. Tammany Parishes, Louisiana.</b> As part of the replacement of the I-10 Twin Spans damaged during Hurricane Katrina, an extensive geotechnical data collection campaign was conducted. The program included performing over 260 CPT soundings to depths of 175-ft below the mudline. The CPTs were performed in up to 15-ft of open water using lift-boat mounted equipment. Sheldon managed the CPT data acquisition which required close communication with DOTD as piles were being ordered within days of obtaining the data. The data provided reliability for accurate casting of pile foundation order lengths that could not be done with conventional means.			
05/04 - 06/19	<b>Statewide Louisiana Bridge Scour Program.</b> DOTD was performing evaluations of bridge scour Statewide. At select bridge locations, CPTs were performed to acquire data where gaps were noted. Sheldon managed the CPT operations for this program which has lasted over 15 years and required access of land- and marine based equipment.			
06/12 - 06/15	<b>Statewide Louisiana Retainer Contract, Cable Barriers.</b> As DOTD embraced the use of cable barriers to address safety concerns, Fugro was tasked with acquiring CPT data within interstate corridors to develop the data needed to finalize design. Sheldon managed the operations which included traffic control and even night time operations to safety capture the data.			
<b>Value Added to the Team:</b> Mr. Collins brings to the team decades of experience in coordinating and executing well drilling in Louisiana.				



### Staff Experience:

Firm employed by		<b>Fugro USA Land, Inc.</b>	
Name	<b>Mike Allen, PG</b>	Years of relevant experience with this employer	20
Title	Geoscientist	Years of relevant experience with other employer(s)	15
Degree(s) / Years / Specialization		BS / 1986 / Geology OSHA 40-hour HAZWOPER Supervisor	
Active registration number / state / expiration date		165 / LA / 2022	
Year registered	2003	Discipline	Geoscientist
Contract role(s) / brief description of responsibilities		<b>Field Crew Supervisor, MPR No. 5.</b> Mr. Allen will supervise drilling operations for task orders and provide technical oversight of environmental and geological aspects of task orders issued under this contract	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
<b>2003 – Current</b>	<p>Mike Allen has overseen the geotechnical field operations for high profile Fugro projects in Louisiana since 2003. He brings over 32 years of geotechnical and environmental field experience which includes the development, oversight, logging and characterization of soil exploration, all in Louisiana. His project experience covers geotechnical and environmental services for transportation, industrial, coastal and commercial applications.</p> <p>As part of his duties, Mike works to determine access and equipment requirements. He has executed field programs for DOTD that included land-based trucks and ATV mounted equipment for conventional access all the way to marsh-buggy and lift-boat mounted equipment for marine access. His responsibilities include administrative and project management, coordination with drillers and CPT crews and following specific DOTD sampling protocols</p>		
06/21-11/21	<b>Interstate 10 Calcasieu River Bridge (Task Order No. H.003931).</b> Field Manager. For this project, 72 soil borings, laboratory testing, and data reporting were performed for the main bridge structure, overpasses, and pavements. Mr. Allen provided field oversight and logging services in order to complete this project ahead of schedule and on budget.		
11/05 – 12/08	<b>I-10 Twin Spans Replacement Project, Orleans and St. Tammany Parishes, Louisiana.</b> As part of the replacement of the I-10 Twin Spans damaged during Hurricane Katrina, an extensive geotechnical data collection campaign was conducted. The program included performing over 30 Soil Borings to depths up to 200-ft below the mudline. The borings were performed in up to 15-ft of open water using lift-boat mounted equipment. Mike managed the data acquisition which required close communication with DOTD due to the accelerated schedule on the project. The project was completed on schedule which helped advance the design of the emergency project		
05/04 – 06/19	<b>Statewide Louisiana Bridge Scour Program.</b> DOTD was performing evaluations of bridge scour Statewide. At select bridge locations, borings were performed to acquire data where gaps were noted. Mike managed field operations for this program for over 40 bridge locations which has lasted over 15 years and required access of land- and marine based equipment		
06/08 – 06/12 05/12 - 03/17 08/20 – Ongoing	<b>Statewide Louisiana Retainer Contract.</b> DOTD has assigned over 50 task orders as part of three separate Geotechnical Retainer contracts. Mike has assisted in the coordination and execution of these task orders which included borings and CPTs in both land and marine environments.		

	<p><b>Value Added to the Team:</b> Mr. Allen's decades of experience and extensive knowledge of geology in Louisiana provides the team with expertise to deliver excellence to DOTD. Additionally, Mr. Allen's experience in environmental assessment and monitoring projects at the subject site provide the team with directly relevant insight into the geological and environmental conditions of this project.</p>
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### Staff Experience:

Firm employed by	<b>Fugro USA Land, Inc.</b>		
Name	<b>Viet Le, E.I.</b>	Years of relevant experience with this employer	5
Title	Project Professional	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	BS / 2015 / Civil Engineering		
Active registration number / state / expiration date	EI 43721 / LA / 09/30/2024		
Year registered	2020	Discipline	Civil
Contract role(s) / brief description of responsibilities	<b>Project Professional.</b> Mr. Le joined the Fugro team in June 2018 as a part-time Staff Engineer for the Kenner, Louisiana facility, was promoted to full-time Staff Engineer in 2019 for the Baton Rouge, Louisiana facility. For this contract, he will provide field exploration services, geotechnical engineering analysis, design, and reporting for task orders issued		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
05/18-Present	Since joining Fugro in 2018, Mr. Le has served in a variety of capacities ranging from Field coordination and execution to engineering analysis and reporting. His project experience similarly spans many markets and industries including but not limited to renewable energy, coastal resilience, and infrastructure.		
03/21 – 10/21	<b>LA Highway 16 Bridges (Isabel to Sun) St. Tammany Parish, LA (H.013984) Project Professional.</b> This project consisted of 10 borings and 10 CPT soundings covering 5 separated bridge structures along LA Hwy 16 in St. Tammany Parish. Mr. Le developed the laboratory testing plan, data review and generated logs for the resulting data report deliverable		
06/21 – 11/21	<b>Interstate 10 Calcasieu River Bridge (Task Order No. H.003931). Project Professional.</b> For this project, 72 soil borings, laboratory testing, and data reporting were performed for the main bridge structure, overpasses, and pavements. Mr. Le provided laboratory testing programs for select borings		
10/21 – 01/22	<b>US 51 Yellow Water Bridge Tangipahoa Parish, LA (H.012071.5)</b> This project consisted of 4 borings across a bridge structure near Hammond Louisiana. Mr. Le Served as field logger and also developed the laboratory testing program and deliverable logs.		
09/19 – 11/19	<b>City of Chackbay – Chackbay Substation – Entergy Services, Inc., New Orleans, LA.</b> Staff Professional. Entergy Services, Inc. planned for the design and construction of a new substation in Chackbay, Louisiana. Mr. Le coordinated and logged field exploration activities, reviewed soil laboratory testing results, and performed geotechnical engineering analyses for foundation support of the new substation.		
02/19 – 07/21	<b>City of New Orleans – St. Catherine Island Marsh Creation and Shoreline Protection – Coastal Protection and Restoration Authority (CPRA), Baton Rouge, LA.</b> Staff Professional. The Louisiana Coastal Protection and Restoration Authority (CPRA) is planning to install approximately 19,479 linear feet of shoreline protection along the Lake Ponchartrain shoreline protecting 120 acres of marsh. In addition, 219 acres of marsh will be created/nourished on the landward side of the planned shoreline protection. Mr. Le logged field exploration services and assisted with reviewing the soil laboratory testing results.		

**Staff Experience:**

Firm employed by		<b>Leaaf Environmental, LLC</b>	
Name	Chase Cromwell, PG	Years of relevant experience with this employer	6
Title	Professional Geologist	Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization		B.B.A. / 2009 / Business Administrations B.S. / 2014 / Geology	
Active registration number / state / expiration date		1360 / Louisiana / 01-11-2024; C-218396 / LA / 12-31-2024	
Year registered	2022; 2019	Discipline	Professional Geoscientist; LDEQ UST Worker
Contract role(s) / brief description of responsibilities		Geologist – drilling soil borings and installing monitoring wells; soil and groundwater collection; waste handling and disposal	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
<b>2016 – present</b>	<p><b>LDEQ Site Investigations for the Remediation Division: Statewide, LA</b> Mr. Cromwell has worked as a geologist and drafter on the Louisiana Department of Environmental Quality (LDEQ) Site Investigations contract, lending field and reporting support on soil and groundwater investigations at 40 sites. Projects have included sampling and evaluation of metals, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, herbicides, and petroleum hydrocarbon fractions in soil and groundwater. Mr. Cromwell has been responsible characterization and disposal of hazardous and non-hazardous wastes generated by Site Investigation activities. In addition to drafting figures, Mr. Cromwell has prepared analytical summaries and Risk Evaluation/Corrective Action Program (RECAP) Screening and Management Option (MO)-1 Level Evaluations for use in Site Investigation Reports, RECAP Evaluation Reports, and Groundwater Monitoring Reports.</p>		
<b>2018 – present</b>	<p><b>Trust Fund UST Investigation, Tulane Shell: New Orleans, LA</b> Mr. Cromwell played a key role in the trust fund investigation of leaking underground storage tanks (USTs). He provided field support for Site Investigation and groundwater monitoring activities conducted in accordance with LDEQ’s UST guidance, supervised interim corrective actions including vacuum events and placement of sorbent materials, and prepared analytical summaries, figures, and data evaluation for use in the Site Investigation, RECAP Evaluation, and Groundwater Monitoring Reports.</p>		
<b>2016 – 2022</b>	<p><b>Recovery One Landfill: New Orleans, LA</b> Mr. Cromwell conducted semiannual groundwater sampling of nine wells at the former landfill in accordance with an LDEQ-approved sampling and analysis plan. Mr. Cromwell assists with the preparation of semiannual Groundwater Monitoring Reports including preparation of analytical summaries and figures, and comparison of results to groundwater protection standards.</p>		
<b>2016 – 2022</b>	<p><b>New Orleans Union Passenger Terminal: New Orleans, LA</b> Mr. Cromwell conducted quarterly groundwater sampling of eight wells at the operating locomotive maintenance yard in accordance with an LDEQ-approved groundwater monitoring work plan. Mr. Cromwell assisted with the preparation of semiannual Groundwater Monitoring Reports including preparation of analytical summaries and figures, and comparison of results to site-specific RECAP standards.</p>		
<b>2016 – 2022</b>	<p><b>Former Saratoga Incinerator: New Orleans, LA</b> Mr. Cromwell served as a scientist that provided field support and supervised in the collection of toxicity characteristic leaching procedure (TCLP) samples (for landfill approval), confirmation samples, and excavation/removal of 597 tons contaminated soils. He prepared post excavation data evaluation of X-ray Fluorescence (XRF) field screening data and remediation figures.</p>		
<b>2016 – present</b>	<p><b>LDEQ Site Investigations for the Remediation Division: Statewide, LA</b> Mr. Cromwell has worked as a geologist and drafter on the Louisiana Department of Environmental Quality (LDEQ) Site Investigations contract, lending field and reporting support on soil and groundwater investigations at 40 sites. Projects have included sampling and evaluation of metals, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, herbicides, and petroleum hydrocarbon fractions in soil</p>		

	<p>and groundwater. Mr. Cromwell has been responsible characterization and disposal of hazardous and non-hazardous wastes generated by Site Investigation activities. In addition to drafting figures, Mr. Cromwell has prepared analytical summaries and Risk Evaluation/Corrective Action Program (RECAP) Screening and Management Option (MO)-1 Level Evaluations for use in Site Investigation Reports, RECAP Evaluation Reports, and Groundwater Monitoring Reports.</p>
<p><b>2018 – present</b></p>	<p><b>Trust Fund UST Investigation, Tulane Shell: New Orleans, LA</b>                  Mr. Cromwell played a key role in the trust fund investigation of leaking underground storage tanks (USTs). He provided field support for Site Investigation and groundwater monitoring activities conducted in accordance with LDEQ’s UST guidance, supervised interim corrective actions including vacuum events and placement of sorbent materials, and prepared analytical summaries, figures, and data evaluation for use in the Site Investigation, RECAP Evaluation, and Groundwater Monitoring Reports.</p>
<p><b>Value Added to the Team: Professional Geologist</b></p>	

(Add rows as needed)

**Staff Experience:**

Firm employed by		<b>Leaaf Environmental, LLC</b>	
Name	Emily Reeves, MSPH	Years of relevant experience with this employer	7
Title	Environmental Risk Assessor	Years of relevant experience with other employer(s)	13
Degree(s) / Years / Specialization		B.A. / 1999 / Environmental Studies MSPH / 2002 / Public Health – Environmental Health Sciences	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Risk Assessor – regulatory compliance; environmental risk assessment; RECAP evaluations; remediation	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
<b>2020 - present</b>	<p><b>Bayou Bonfouca Superfund Site: Slidell, LA</b> Ms. Reeves served as the Project Scientist responsible for purging and sampling groundwater monitoring, observation, and sentinel wells located around the groundwater treatment system and landfill of the Bayou Bonfouca Superfund Site. Field work was completed in accordance with the Louisiana Department of Environmental Quality (LDEQ) and Environmental Protection Agency (EPA) approved Additional Site Investigation Work Plan, Quality Assurance / Quality Control (QA/QC) Plan, and Technical Sampling and Analysis Plan (SAP). Maintained adequate quality assurance and quality control procedures during sample collection. Following receipt of analytical results from groundwater samples and soil samples (collected by others), evaluated the data for completeness and sufficient quality. Performed a risk assessment following LDEQ Risk Evaluation / Corrective Action Program (RECAP) Guidance on the analytical results under Management Option (MO)-1. The risk assessment included the enclosed structure exposure pathway. Prepared the Site Investigation and RECAP Evaluation Report for submittal to LDEQ and EPA.</p>		
<b>2016 - present</b>	<p><b>LDEQ Site Investigations for the Remediation Division: Statewide, LA</b> Ms. Reeves serves as the primary risk assessor and Scientist in preparation of Site Investigation Reports and RECAP Evaluations. Ms. Reeves oversees Site Investigations and groundwater monitoring events as needed. She manages other Scientists with the development of Site Investigation, RECAP Evaluation and Groundwater Monitoring Reports. Ms. Reeves has extensive experience in RECAP evaluation of soil, groundwater and air for a variety of constituents of concern including an excellent understanding of additivity and hazard index assessment and environmental risk standard development. At the Imperial Cleaners site, Ms. Reeves assisted in the data evaluation and site investigation report for a dry cleaner facility located in Minden, Louisiana and prepared a RECAP Evaluation on the elevated chlorinated solvent concentrations detected in soil, groundwater, and indoor air. At the Angie Wood Preserving Company site, Ms. Reeves managed two RECAP Site Investigations that included review of historical data from a former wood treatment facility and development of site investigation work plans, technical SAPs, and a QA/QC Plans for soil and groundwater sampling per RECAP guidance. Upon LDEQ approval of the plans, Ms. Reeves managed the site investigations, evaluated data per RECAP, and assisted in preparation of Site Investigation and RECAP Evaluation Reports.</p>		
<b>2020 - present</b>	<p><b>Port of New Orleans – As Needed Environmental Compliance Assessment and Remediations Services: New Orleans Area, LA</b> Ms. Reeves serves as a Project Manager under the Port of New Orleans Environmental Compliance and Remediation Services contract. Ms. Reeves worked with the Port of New Orleans and LDEQ to develop an updated conveyance notice clarifying an area restricted to industrial use and allowing the remaining portion of the property to be used for residential use. Ms. Reeves prepared the conveyance notice for LDEQ’s approval allowing the Port of New Orleans to lease the property to a new tenant. On a large dock port site, Ms. Reeves prepared a revised RECAP evaluation, as requested by LDEQ, using historical data on a site planned for redevelopment. Using the revised RECAP evaluation, and in coordination with Port of New Orleans and LDEQ, Ms. Reeves prepared a Corrective Action Plan for surface soil remediation to be performed during site redevelopment.</p>		
<b>2021 - present</b>	<b>US Rig and Equipment: Port Barre, LA</b>		

	Ms. Reeves serves as a Project Scientist for this project. Based on the history of the site involving a plastics fire requiring the application of fire-fighting foam, the LDEQ Team Leader requested that sampling for Per- and Polyfluoroalkyl Substances (PFAS) analysis be added to the site investigation. Ms. Reeves developed a sampling plan for the PFAS samples including selection of sample locations and media, sampling equipment required to limit contamination and quality control samples. Sampling was conducted in late January 2022.
<b>2017 - present</b>	<b>Angie Wood Preserving Company: Angie, LA</b> Ms. Reeves managed a RECAP Site Investigation that included review of historical data from a former wood treatment facility and development of a Site Investigation Work Plan, Technical SAP, and a QA/QC Plan for soil and groundwater sampling per RECAP guidance. Upon LDEQ approval of the plans, Ms. Reeves managed multiple site investigations, evaluated data per RECAP, and assisted in preparation of Site Investigation Reports. She also developed RECAP standards for Dioxins.
<b>2017 - 2022</b>	<b>Prudhomme Truck Tank Service: Lafayette, LA</b> Ms. Reeves served as a Project Scientist responsible for the quality assurance/quality control of submittals related to the site investigations of this former trucking site. Ms. Reeves reviewed two combined Site Investigation Work Plan, QA/QC Plan, and Technical SAP and two Site Investigation Reports. The documents were reviewed to ensure accuracy and completeness as well as compliance with RECAP. In addition, with approval from the LDEQ Team Leader, Ms. Reeves developed site-specific MO-2 standards for barium using revised toxicity values from EPA's <i>Toxicological Review of Barium and Compounds</i> in order to complete an MO-2 RECAP evaluation on elevated barium in surface soils
<b>2016 - 2022</b>	<b>New Orleans Union Passenger Terminal: New Orleans, LA</b> Ms. Reeves was the Project Manager responsible for evaluating historical data collected from numerous Site Investigations and prior RECAP Evaluation Reports in order to determine data gaps at the operating locomotive maintenance yard. Ms. Reeves was responsible for preparing Site Investigation Work Plans to address data gaps and confirm and quantify the extent of historical impacts. She assisted in soil investigations, installing soil borings, collecting soil samples, data entry, conducting quarterly groundwater monitoring, and preparing RECAP Evaluations.
<b>2016 - 2021</b>	<b>Saratoga Incinerator Site: New Orleans, LA</b> Ms. Reeves served as the Project Manager responsible for reviewing historical data and site investigations to develop a Corrective Action Plan to address soil contamination at a former municipal solid waste incinerator. The Correction Action Plan was approved by LDEQ. Ms. Reeves is currently overseeing completion of the Correction Action Report detailing the remediation effort.
<b>2016 - 2021</b>	<b>Recovery One Landfill: New Orleans, LA</b> This site is a closed municipal landfill currently in its 30-year post-closure period. And managed under an assessment monitoring program. Ms. Reeves manages all aspects of the landfill's annual post-closure requirements including the semiannual assessment monitoring sampling, analysis, preparation of trend graphs, development of Groundwater Protection Standards, and Groundwater Monitoring Report preparation; preparation of the landfill's annual Solid Waste Certification of Compliance; annual inspection; and annual adjusted post-closure cost estimate.
<b>2015 - 2021</b>	<b>City of New Orleans Fuels Management and Related Services Contract: New Orleans, LA</b> Ms. Reeves has managed several projects under the City of New Orleans contract. Notably, Ms. Reeves prepared the Phase II Environmental Site Assessment (ESA) with limited RECAP MO-1 Evaluation for the Rosenwald Gym and Grounds, a community gymnasium and multi-purpose field. Based on the results of the RECAP evaluation, Ms. Reeves developed a Corrective Action Plan to remediate contaminated soil. Ms. Reeves managed the remediation of approximately 2,100 tons of contaminated soil. Following the completion of remediation activities, Ms. Reeves prepared the Corrective Action Report detailing the remediation activities and evaluating the remaining contaminant concentrations per the RECAP MO-1 Evaluation. A Conveyance Notice was filed on the property and the LDEQ issued a no further action (NFA) determination for the site. The property is currently developed with a multi-purpose swimming pool, athletic field and playground. As part of the Broadmoor Drainage Upgrades and Green Infrastructure project, Ms. Reeves developed the scope of work for the Phase II ESAs at multiple playgrounds and parks planned for drainage and green infrastructure improvements. Ms. Reeves oversaw the Phase II field work and evaluated the Phase II ESA for waste disposal purposes. Ms. Reeves prepared the environmental bid specifications to be included with the construction specifications to ensure the soil at each site is handled and disposed properly.
<b>Value Added to the Team: Risk Assessor; RECAP Evaluations; Remediation</b>	

(Add rows as needed)

**Staff Experience:**

Firm employed by		<b>Leaaf Environmental, LLC</b>	
Name	Jim Blazek, Jr.	Years of relevant experience with this employer	18
Title	Co-Owner, Environmental Manager	Years of relevant experience with other employer(s)	16
Degree(s) / Years / Specialization		B.S. / 1988 / Business Administration	
Active registration number / state / expiration date		C-94366 / Louisiana / 12-31-2024	
Year registered	1992	Discipline	LDEQ UST Closure/Supervisor
Contract role(s) / brief description of responsibilities		Environmental Manager – waste disposal and handling; regulatory compliance; remediation; Superfund	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
<b>2021 - present</b>	<p><b>Gretna Plating and Polishing Company: Gretna, LA</b> Mr. Blazek provided environmental support services to the City of Gretna, through their Revolving Loan Brownfields program being managed by the Regional Planning Commission (RPC). He managed and participated in the consolidation of hazardous chemicals found within a former galvanizing facility that had previously caught fire. Once the waste was consolidated, an inventory of the waste was developed. Prior to moving to the next phase of the project, which was to sample, profile and dispose of the waste, Hurricane Ida hit Gretna and further destroyed the building where the chemicals were located. The damage also affected the stored hazardous waste and caused a release. The Environmental Protection Agency (EPA) was contacted to respond to the release emergency. Mr. Blazek was then assigned by the City of Gretna to oversee the cleanup of the waste by EPA contractors. It was also discovered that the hazardous waste had affected the building materials; therefore, the EPA will be demolishing the building. Once the building was demolished and all the waste was disposed, the site was turned back over to the City of Gretna for completion of the sampling of the surrounding soil and groundwater by Leaaf. Mr. Blazek is the Project Manager on the site investigation and coordination with LDEQ.</p>		
<b>2019 - present</b>	<p><b>Environmental Services – Home Investment Partnership Program, Environmental Services – Community Development Block Grant (CDBG) – Disaster Response Program (DRP) and Lead Training Services: Statewide LA</b> Mr. Blazek is the Principal in Charge of the three state contracts with the Louisiana Housing Corporation (LHC). As the point of contact for the two Environmental Services contracts, Mr. Blazek is responsible for the contractual issues and assignment of personnel for the completion of the work. Mr. Blazek is periodically called in to consult when environmental support is needed outside of the normal contract requirements. Mr. Blazek is also the primary trainer for the Lead Training Services Contract and has also provided LHC support in the development of Request for Proposals (RFPs) for additional services that will be required under the Grant programs</p>		
<b>2021 - present</b>	<p><b>Port of New Orleans (PONO) – Kingfish Railroad Expansion – Environmental Support Service: New Orleans, LA</b> Mr. Blazek assisted the Port of New Orleans with the investigation of potential soil contaminants associated with the area to be disturbed associated with the expansion of the Kingfish Rail Yard. Mr. Blazek inspected the existing soils to determine if asbestos-containing building materials was mixed in with the soils located on the site. Additionally, Mr. Blazek collected surface soil samples and sent them to a third-party certified environmental laboratory for metals and polycyclic aromatic hydrocarbon (PAH) and Toxicity Characteristic Leaching Procedure (TCLP) analysis. The metals and total petroleum hydrocarbon (TPH) results were then compared to the Louisiana Department of Environmental Quality (LDEQ) Risk Evaluation / Corrective Action Program (RECAP) limiting screening standards. The TCLP results were compared to the U.S. Environmental Protection Agency’s (EPA) hazardous characteristic values. It was determined that the soil was contaminated but were not considered hazardous; therefore, the soils were scheduled for delivery to an LDEQ Subtitle D Landfill. Mr. Blazek is currently in negotiations with LDEQ to determine the best options for closing out the site and providing additional assessments to determine the best option for the handling of excavation spoils.</p>		
<b>2009 - present</b>	<p><b>City of Gretna – Environmental Support Services: Gretna, LA</b> Mr. Blazek is the Program Manager for the City of Gretna environmental services contract. In addition, Mr. Blazek has acted as Project Manager on a number of projects that have been completed by Leaaf including: (1) Gretna Post Office (asbestos, lead and mold – inspection, design, construction</p>		

	<p>management, and clearance); (2) Malter Chemical Superfund Site (assisted Mayor in coordination with lease of the site); (3) Lead-based paint surveys of various properties; (4) Brownfields and Phase II support with expansion of 4<sup>th</sup> Street; (5) Phase I Environmental Site Assessment (ESA) and Phase II ESA of former City Incinerator Site for development of property into an ARC Facility; (6) Phase I ESA and scope development of former railroad property into a flood protection retention system; (7) Phase I ESA, Phase II ESA, demolition and asbestos abatement design of a facility for future development/expansion of the City’s fire station; (8) Noxious odor response; (9) Phase I ESA, Phase II ESA and underground storage tank (UST) removal of a site that was being developed as a new fire station; (10) MS4 Permitting compliance support; (11) Asbestos and lead inspection, design and oversight of abatement of Gretna City Hall; (12) Stormwater permitting for City fire station; (13) Brownfields grant writing assistance; (14) Brownfields Phase I ESA, Phase II ESA and site remediation and UST closure of tax lien property utilizing LDEQ Brownfields grant money; (15) City Park gas odor emergency response; (16) Downtown drainage improvement environmental support (lead/PAHs soil sampling, profiling, disposal design and oversight; UST closure and permitting); (17) Illegal tire dumping support (permitting and disposal arrangement), and public hearing support. 18) Gretna Plating – Hazardous Chemical consolidation, EPA contractor oversight, and Voluntary Remediation Program (VRP) Investigation to close of the site.</p>
<p><b>2018 - present</b></p>	<p><b>Avondale Marine, LLC – Environmental Support Services: Avondale, LA</b>          Mr. Blazek is the Program Manager and Project Manager between LeAAF and HOST, the parent company for Avondale Marine. Mr. Blazek manages environmental projects included in the redevelopment of this 260-acres of land with 16 major buildings and 89 ancillary buildings with a history of building, repairing and overhauling ships for the U.S. Navy, U.S. Coast Guard and commercial clients for 77 years. The work on the site has included the following: (1) Preliminary Assessments (air and water permitting, LDEQ records review and previous report reviews with summary reports of findings, scope development and vessel offloading monitoring), (2) Site Investigations (Phase II ESA for soil and groundwater, asbestos, lead, radiation, mold and hazardous materials), (3) Site remediation (design, oversight and clearance), and (4) Meetings with Client, Lease Holders, LDEQ and public officials.</p>
<p><b>2011 – 2014</b></p>	<p><b>Press Park Demolition &amp; Remediation (Superfund Site): New Orleans, LA</b>          LeAAF Environmental, LLC (LeAAF) was contracted by the Housing Authority of New Orleans (HANO) to provide environmental and demolition support services for the preparation of an Environmental and Demolition Scope of Work for the Press Park Housing Development. This housing development is located on the EPA designated Agricultural Street Landfill Superfund Site. The buildings were severely damaged by flooding and winds generated by Hurricane Katrina. The site covers approximately 6.5 acres with 26 Buildings. Mr. Blazek was the principal-in-charge of the project and the primary project manager.</p> <p><b><u>Environmental Surveys</u></b>- Mr. Blazek managed and helped conduct asbestos, lead-based paint and hazardous materials surveys within and outside of the entire complex. Mr. Blazek managed and participated with the LeAAF team to complete a Phase I – Environmental Site Assessment in accordance with ASTM E 11527-05 and a NEPA investigation in accordance with 24 CFR Part 58. As part of the NEPA process work completed included an 8-Step Floodplain Notice, Statutory Checklist and Environmental Checklist. Public notices were utilized to inform the public of the project. Mr. Blazek also coordinated with FEMA to facilitate FEMA’s completion of an additional NEPA report to meet FEMA requirements.</p> <p><b><u>Project Design</u></b>- Mr. Blazek developed initial scope was for design the demolition of the HANO-Owned Structures, removal of flat work (slabs, parking, sidewalks and driveways), and excavation of two (2) feet of soil beneath the flat work to match the remediation completed by EPA in the early 2000s. Due to the cost associated with the remediation of the soil, FEMA requested that the scope be modified to remove the remediation portion of the project. Mr. Blazek redesigned the project to require the demolition and abatement of the buildings only.</p> <p><b><u>Project Environmental CA and Air Quality</u></b>- Mr. Blazek managed LeAAF personnel that provided full-time construction management to oversee the progress of the contractor and to perform area air monitoring for dust and asbestos. At the completion, Mr. Blazek develop a closure report for the project.</p>
<p><b>Value Added to the Team: Waste Handling and Disposal; Regulatory Compliance; Superfund; Expert Witness</b></p>	

(Add rows as needed)

**Staff Experience:**

Firm employed by		<b>A P S Engineering and Testing, LLC</b>	
Name	Sergio Aviles, P.E.	Years of relevant experience with this employer	11
Title	President	Years of relevant experience with other employer(s)	10
Degree(s) / Years / Specialization		BS Civil Engineering/2001/Geotechnical	
Active registration number / state / expiration date		0033571/ LA / 03-31-2024	
Year registered	2007	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		Project Manager/Design Guidance/Field Crew And Lab Management	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
09/19–Present	<b>Project No. H.001352 and H.002273: Comite River Diversion Bridge at LA-67, LA-19 and LA-19 Railroad Bridge LA-67 and LA-19-</b> A P S was selected with the winning team for the design of the diversion CMAR project. A P S will be the Geotechnical Designers for the project. Mr. Aviles is the Project Manager for the Project Design team.		
09/19–Present	<b>Project No. H.004100: I-10 Widening LA 415 to Essen LN-</b> A P S was tasked thru our DOTD Geotechnical retainer to drill and sample a total of 52 deep borings starting at the Washington Exit and ending at the LSU Lakes. Along with this drilling and sampling, A P S will also test for strength and engineering characteristics of the soils with total of eight (8) over the waterborings and 44 land borings with approximately 1000 Triaxial Compression, Unconsolidated Drained Or Undrained (UU) and Atterberg Limits. Mr. Aviles is the Project Manager to the Geotechnical Investigations.		
12/19–3/20	<b>Project No. H.010155: US 90 Railroad Overpass SE of LA 85-</b> A P S was selected with the winning team for the Geotechnical Investigation and Design for the proposed new overpass. A total of six (6) deep borings were drilled and tested for Geotechnical recommendation. Mr. Aviles was the Project Manager for the Project Design team.		
03/19–05/19	<b>Project No. H.001344: US 190 over Bogue Falaya River-</b> A P S was selected with the winning team for the Geotechnical Investigation and Design of the proposed new bridge. A total of 19 deep borings were drilled and tested for the foundation recommendation. Mr. Aviles was the Project Manager for the Project Design team.		
08/16–10/19	<b>Project No. H.012422: I-110 Interchange Modification at Terrace Ave-</b> A P S was tasked thru our DOTD Geotechnical retainer to drill and sample a total of six (6) deep borings for the design of the Terrace Ave Exit. A P S tested for strength and engineering characteristics of the soils with approximately 100 Triaxial Compression, Unconsolidated Drained Or Undrained (UU) and Atterberg Limits performed by A P S Laboratory. Mr. Aviles was the Project Manager to the Geotechnical Investigations.		

11/17–2/18	<p><b>Project No. H.013193: US 61 Thompson Creek Bridge Replacement-</b> A P S was tasked thru our DOTD Geotechnical retainer to drill and sample a total of eight (8) deep borings for the replacement bridge at US 61 over Thompson Creek. A P S tested for strength and engineering characteristics of the soils. Mr. Aviles was the Project Manager to the Geotechnical Investigations and Analysis assigned for roads and bridges.</p>
07/14–08/14	<p><b>Project No. 700-51-0110: US 90 elevated portion for the future I-49 corridor-</b> A P S performed all the preliminary drilling, testing, and CPTs for US 90 and Highway 318 Intersection. A total of 46 borings and 11 CPTs along with all the testing required by LADOTD was completed. Mr. Aviles was the Project Manager to the Geotechnical Investigations and Analysis assigned for roads and bridges design.</p>
	<p>The following list consists of projects that Mr. Aviles did the design or assisted on the design while at LADOTD. These projects include pile design, slope stability, settlement analysis, and construction services (PDA, CAPWAP, and WEAP).</p> <p><b>ONSYSTEM PROJECTS LIST:</b></p> <p>Mr. Aviles served as the staff geotechnical engineer while at the Pavement and Geotechnical Section for the following projects below. Projects include Embank Design, Pile Design, Drilled Shaft Design, MSE Wall Design, and Construction Supervision. Major project costs estimated over one million dollars:</p> <ul style="list-style-type: none"> <li>• 015-04-0037 LA524-LA123 Route US165, 015-05-0035 LaSalle, 015-07-0044 (Route 165 Cadwell, 276-03-0016 Tangipahoa River Bridge, 3132 Innerloop 427-01-0029, 362-01-0009 Rat Bois, 452-01-0039 I-55 CrossOvers, 742-07- 0098 Susek Drive, Bayou Perrie and Sand Beach Bayou 103-01-0025, Broadway Ave.700-40-0127, Cameron Route La. 27 193-02-0042, Causeway Boulevard interchange Route I-10 450-15-0098, Clayton-Greenville 026-03-0025, Crescent City Connection 283-08-0143(46), Cross Bayou Bridge 090-01-0020, Flannery at Florida 742-17-0008.</li> </ul>

**Staff Experience:**

Firm employed by	<b>A P S Engineering and Testing, LLC</b>		
Name	Sairam Eddanapudi, M.E., P.E.	Years of relevant experience with this employer	11
Title	Chief Engineer	Years of relevant experience with other employer(s)	9
Degree(s) / Years / Specialization	ME/2002/Civil Engineering BE/1999/Civil Engineering		
Active registration number / state / expiration date	0035129/ LA / 03-31-2024		
Year registered	2008	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Laboratory QA Manager/Design Engineer		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
11/19–Present	<b>Project No. H.001352 and H.002273: Comite River Diversion Bridge at LA-67, LA-19 and LA-19 Railroad Bridge LA-67 and LA-19-</b> A P S was selected with the winning team for the design of the diversion CMAR project. A P S will be the Geotechnical designers for the project. Mr. Sai is the Senior Design Engineer for the project design team.		
09/19–Present	<b>Project No. H.004100: I-10 Widening LA 415 to Essen LN-</b> A P S was tasked thru our DOTD geotechnical retainer to drill and sample a total of 52 deep borings starting at the Washington Exit and ending at the LSU lakes. Along with this drilling and sampling, A P S will also test for strength and engineering characteristics of the soils with a total of eight (8) over the water borings and 44 land borings with approximately 1000 Triaxial Compression, Unconsolidated Drained Or Undrained (UU) and Atterberg Limits. Mr. Sai is the project QA to the Geotechnical Investigations.		
03/19–05/19	<b>Project No. H.001344: US 190 over Bogue Falaya River-</b> A P S was selected with the winning team for the Geotechnical Investigation and Design of the proposed new bridge. A total of 19 deep borings were drilled and tested for the foundation recommendation. Mr. Sai was the Senior Design Engineer for the project design team.		
08/16–10/19	<b>Project No. H.012422: I-110 Interchange Modification at Terrace Ave-</b> A P S was tasked thru our DOTD Geotechnical retainer to drill and sample a total of six (6) deep borings for the design of the Terrace Ave Exit. A P S tested for strength and engineering characteristics of the soils with approximately 100 Triaxial Compression, Unconsolidated Drained Or Undrained (UU) and Atterberg Limits performed by A P S Laboratory. Mr. Sai was QA to the Geotechnical Investigations.		
11/17–2/18	<b>Project No. H.013193: US 61 Thompson Creek Bridge Replacement-</b> A P S was tasked thru our DOTD Geotechnical retainer to drill and sample a total of eight (8) deep borings for the replacement bridge at US 61 over Thompson Creek. A P S tested for strength and engineering characteristics of the soils. Mr. Sai was QA to the Geotechnical Investigations.		

**Staff Experience:**

Firm employed by	<b>A P S Engineering and Testing, LLC</b>		
Name	Surendra Pathak, P.E.	Years of relevant experience with this employer	9
Title	Staff Engineer	Years of relevant experience with other employer(s)	10
Degree(s) / Years / Specialization	MSCE/2013/Civil Engineering BE/2007/Civil Engineering		
Active registration number / state / expiration date	0043487/LA/9-31-23		
Year registered	2019	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	<b>MPR No. 4</b> Staff Engineer-Review Field Logs, Lab Data, And Design Engineer		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
11/19–Present	<b>Project No. H.001352 and H.002273: Comite River Diversion Bridge at LA-67, LA-19 and LA-19 Railroad Bridge LA-67 and LA-19-</b> A P S was selected with the winning team for the design of the diversion CMAR project. A P S will be the Geotechnical designers for the project. Mr. Surendra is a Design Engineer for the project design team.		
09/19–Present	<b>Project No. H.004100: I-10 Widening LA 415 to Essen LN-</b> A P S was tasked thru our DOTD geotechnical retainer to drill and sample a total of 52 deep borings starting at the Washington Exit and ending at the LSU lakes. Along with this drilling and sampling A P S will also test for strength and engineering characteristics of the soils with. A total of eight (8) over the waterborings and 44 land borings with approximately 1000 Triaxial Compression, Unconsolidated Drained Or Undrained (UU) and Atterberg Limits. Mr. Surendra is a staff engineer to the Geotechnical Investigations.		
03/19–05/19	<b>Project No. H.001344: US 190 over Bogue Falaya River-</b> A P S was selected with the winning team for the Geotechnical Investigation and Design of the proposed new bridge. A total of 19 deep borings were drilled and tested for the foundation recommendation. Mr. Surendra was a Design Engineer for the project design team.		
08/16–10/19	<b>Project No. H.012422: I-110 Interchange Modification at Terrace Ave-</b> A P S was tasked thru our DOTD Geotechnical retainer to drill and sample a total of six (6) deep borings for the design of the Terrace Ave Exit. A P S tested for strength and engineering characteristics of the soils with approximately 100 Triaxial Compression, Unconsolidated Drained Or Undrained (UU)and Atterberg Limits performed by A P S Laboratory. Mr. Surendra was a staff engineer to the Geotechnical Investigations.		
11/17–2/18	<b>Project No. H.013193: US 61 Thompson Creek Bridge Replacement-</b> A P S was tasked thru our DOTD Geotechnicalretainer to drill and sample a total of eight (8) deep borings for the replacement bridge at US 61 over Thompson Creek. A P S tested for strength and engineering characteristics of the soils. Mr. Surendra was a staff engineer to the Geotechnical Investigations.		

**16. Firm Experience:**

Identify the team's project experience **most relevant** to the scope in the advertisement. **The projects should be limited to a total of 20, with no more than 5 projects being represented by the prime consultant and with no more than 3 projects represented by each sub-consultant on the team. If more than 5 projects are identified for the prime consultant, all projects identified after the first 5 will not be evaluated. If more than 3 projects are identified for a single sub-consultant, all projects identified after the first 3 from that sub-consultant will not be evaluated.** Include no more than one page per project. Projects identified shall only include work performed by firms on the team. The projects identified do not necessarily need to have been DOTD projects.

Firm name	<b>Fugro USA Land, Inc.</b>	Past Performance Evaluation Discipline(s)*	<b>Environmental</b>
Project name	<b>IDIQ Contract for Corrective Action Plan (CAP) Development and Implementation at DOTD Underground Storage Tank Sites Statewide</b>	Firm responsibility (prime or sub?)	Prime
Project number	4400016176	Owner's name	Louisiana DOTD
Project location	Statewide, Louisiana	Owner's Project Manager	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802		
Services commenced by this firm (mm/yy)		Total consultant contract cost (\$1,000's)	
Services completed by this firm (mm/yy)		Cost of consultant services provided by this firm (\$1,000's)	

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

In 2019, Fugro was selected by DOTD to perform assessments and regular environmental monitoring of a series of LUST sites operated and maintained by DOTD, statewide in Louisiana. The scope of the contract consisted of initial site status evaluations including sampling and testing of existing monitoring wells. This was done on a regular basis to assess changes to the site and identify potential contaminant migration across or off the sites. Additional work included development of future corrective action.

For this ongoing contract, Fugro partnered with Leaa Environmental, LLC.

**Team Members involved: Peter Cole, Jack Koban, PhD, PE, PG, Mike Allen, PG, Jim Blazek (Leaa)**

**Firm Experience:**

Firm name	<b>Fugro USA Land, Inc.</b>		Past Performance Evaluation Discipline(s)*	<b>Geotechnical</b>
Project name	<b>LA DOTD Statewide Geotechnical Retainer IDIQ Contract (multiple)</b>		Firm responsibility (prime or sub?)	Prime
Project number	700-66-0507	Owner's name	State of Louisiana, DOTD	
Project location	Statewide, Louisiana		Owner's Project Manager	Kristy Smith
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-1387, Kristy.smith2@la.gov			
Services commenced by this firm (mm/yy)	07/10, 01/20, 01/23	Total consultant contract cost (\$1,000's)		N/A
Services completed by this firm (mm/yy)	05/17, 01/23, ongoing	Cost of consultant services provided by this firm (\$1,000's)		> 6,000

As part of a Statewide Geotechnical retainer contract awarded multiple times, Fugro performed geotechnical exploration and engineering related services for statewide projects under individual Task Orders for DOTD. The contracts have included over 25 task orders have covering a wide geographical area of Louisiana. The geotechnical investigations, sampling, and testing services provided for this contract include:

Field reconnaissance for equipment access	Drafting of subgrade soil surveys
Land clearing for equipment access	Instrumentation installation – LA 70 (Bayou Corne sinkhole)
Deep and shallow soil borings	Exploration location survey
ECPT soundings	Laboratory testing
Drafting of boring and ECPT logs	

As principal-in-charge, Mr. Marx negotiated and oversaw completion of task orders the work for which was performed in accordance with DOTD protocols.

Fugro was once again selected for this contract in 2020 and has been awarded 4 task orders between 2021 and 2022 the largest of which, the I-10 Calcasieu River Bridge (H.003931) included over 70 borings utilized multiple rigs and a number of Fugro professionals to complete on budget and ahead of schedule.

TCPL was utilized for a number of task orders related to this contract.

**Project Team: Eric Marx, PE; Jack Koban, PhD, PE, PG; Sam Bryant, PhD, PE; Deborah Meyer-Sayer; Mike Allen, PG; Mike Hollier, PE; Viet Le, EI; Andrew Bull, EI; Sheldon Collins;**

STATE OF LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT  
CONSULTANT TECHNICAL EVALUATION

Evaluation ID 4717	<input type="text"/>
Approved By Nickel, Chris J.	<input type="text"/>
Technical Evaluator Christopher Nickel	<input type="text"/>
Project Manager Smith, Kristy H.	<input type="text"/>
Consultant Fugro USA Land, Inc.	<input type="text"/>
Project Number H.003931 - CALCASIEU RIVER BRIDGE (HBI)	<input type="text"/>
Contract Number 44/19015	<input type="text"/>

Discipline GeoTech	<input type="text"/>
Task Order Number H.003931	<input type="text"/>
Rating Date 1/10/2022	<input type="text"/>
<input checked="" type="radio"/> Prime <input type="radio"/> Sub	
Complex: <input checked="" type="radio"/> Yes <input type="radio"/> No	
Contract Value \$ 101,000 - \$ 1,000,000	<input type="text"/>

- Provide a brief description of the project and the evaluated deliverables.  
This project consisted of performing 42 deep Geotechnical soil borings and 30 shallow subgrade soil survey borings for the I-10 Calcasieu preliminary Geotechnical Investigation. This project had a tight schedule with a demanding work load. Fugro completed the borings, lab testing and data report exactly how we asked and delivered well before the due date.
- Explain the technical accuracy of the consultant's deliverables throughout the project.  
The deliverables were provided exactly how the Geotech section requested.
- Describe all notable aspects, positive and negative, of the consultant's participation in the project.  
Fugro completed the proposal very quickly, which allowed for the early delivery of the Notice to Proceed. They also delivered the final Data Report a month before the due date. Fugro did an excellent job with this task order.
- If the consultant was the prime summarize the management of the project.  
The project was well managed, Michael Hollier kept our section informed of progress and did a good job communicating, he was well-organized and was ahead of schedule.



**Firm Experience:**

Firm name	<b>Fugro USA Land, Inc.</b>		Past Performance Evaluation Discipline(s)*	Environmental
Project name	<b>Phase II Environmental Site Assessment, Site Investigation, RECAP – Former TK Valve Facility</b>		Firm responsibility (prime or sub?)	
Project number	N/A	Owner's name	Stirling Properties, LLC	
Project location	Hammond, LA		Owner's Project Manager	Mark Salvetti
Owner's address, phone, email	109 Northpark Blvd, Ste 300 Covington, LA 70433			
Services commenced by this firm (mm/yy)	04/17	Total consultant contract cost (\$1,000's)		52.8
Services completed by this firm (mm/yy)	11/17	Cost of consultant services provided by this firm (\$1,000's)		45.8

In 2019, Fugro was retained by Stirling Properties to perform a Phase II Environmental Site Assessment for the above referenced site in Hammond, LA for the purposes of characterizing contamination suspected at the site and develop a potential remediation plan to facilitate the eventual planned redevelopment of the site. The property consists of 24.3 acres that was previously utilized for manufacturing of industrial ball valves and other equipment for the oil industry dating back to the early 1970s.

Fugro's scope of work included advancing twelve (12) borings to a depth of 20-25 ft using direct push techniques. Each boring was logged for stratigraphy and soil samples were collected for analytical testing based on PID, visual and/or olfactory indicators of contamination, and soil/groundwater properties. Borings were then converted to temporary wells for sampling of groundwater by setting 0.75-inch diameter PVC wells with a screened interval covering the length of the encountered saturated zone. One water sample was collected from each well using dedicated, disposable bailers.

Soil and water samples were analyzed for Volatile Organic Compounds, Semi Volatile Organic Compounds, RECAP Metals, Volatile Petroleum Hydrocarbons, and Extractable Petroleum Hydrocarbons. The results of these tests were compared to LDEQ RECAP standards and reported with recommendations for further investigation.

Fugro recommended an additional Site Investigation to further delineate horizontal and vertical contamination. A Work Plan was submitted to LDEQ and subsequently approved and executed. The Site Investigation included four additional borings and conversion to permanent monitoring wells. The data from this investigation was used to perform a Risk Evaluation in accordance with RECAP and a detailed report was compiled for submittal to LDEQ. Fugro's report was approved by LDEQ in July 2018 and future remediation for groundwater is anticipated.

This investigation and associated reporting was completed and stayed within the budget of 52,800. This project demonstrates Fugro's ability to execute complex environmental investigations and guide clients through the investigation and RECAP process.

**Project Team: Peter J. Cole – Environmental Professional; Jack Koban, PhD, PE, PG – Environmental Engineer, Mike Allen, PG – Project Geologist**

**Firm Experience:**

Firm name	<b>Fugro USA Land, Inc.</b>		Past Performance Evaluation Discipline(s)*	<b>Environmental</b>
Project name	<b>Magnolia Market Place UST Closure and Remediation</b>		Firm responsibility (prime or sub?)	
Project number	N/A	Owner's name	Magnolia Market Place, LLC	
Project location	Hammond, LA		Owner's Project Manager	Mark Salvetti
Owner's address, phone, email	109 Northpark Blvd, Ste 300 Covington, LA 70433			
Services commenced by this firm (mm/yy)	09/14	Total consultant contract cost (\$1,000's)	49.9	
Services completed by this firm (mm/yy)	11/14	Cost of consultant services provided by this firm (\$1,000's)	49.9	

Unknown USTs were located within the Raising Cane's Restaurant construction area within the Magnolia Market Place shopping center outparcel located in New Orleans, Louisiana. Specifically, the USTs were located directly in the corner area of S. Claiborne Avenue and Toledano Street and the USTs were generally situated within 2 to 5 feet of each other in random positions. MAPP Construction initially discovered two USTs during pile driving for the construction of the Raising Cane's Restaurant.

Additional USTs were discovered during excavation of these previously located USTs and during additional exploratory trenching in support of the planned construction activities at the site.

On September 12, 2014, Two USTs were removed; one identified to store oil and one identified to store gasoline, however, an additional gasoline UST was discovered. On September 15, 2014, the third UST was removed, and three additional gasoline USTs were discovered and removed. On September 25, 2014 another gasoline UST discovered by MAPP Construction during installation of a storm drain was removed. On September 29, two additional gasoline USTs were discovered, and removed. All tanks were found to have been partially filled with sand and contained some liquids. All USTs were removed from the ground once liquids and solids were removed and pumped out and degased, no free phase was discovered. Based on field observations, over-excavation of each tank hold was performed to remove contaminated soils. Excavation down to native soils at approximately 12 feet below ground surface was completed and closure samples were performed of the native soil. Approximately 330 tons of contaminated soils were removed and disposed of at River Birch Landfill.

Closure samples were screened using a Photoionization Detector (PID) and the highest reading was analyzed for Gasoline or Oil constituents utilizing MA VPH/EPH methods in accordance with the LDEQ Underground Storage Tank Closure/Change-in-Service Guidance Document that came into effect May 1, 2010. The USTs were successfully removed and closed with successful remediation of contaminated soils. All work was approved and accepted by LDEQ.

**Project Team: Peter J. Cole – Environmental Professional; Jack Koban, PhD, PE, PG – Environmental Engineer, Mike Allen, PG – Project Geologist**

**Firm Experience:**

Firm name	<b>Fugro USA Land, Inc.</b>	Past Performance Evaluation Discipline(s)*	<b>Environmental</b>
Project name	<b>Restore Louisiana - Lead Based Paint Survey Services</b>		Firm responsibility (prime or sub?)
Project number		Owner's name	State of Louisiana - IEM
Project location	Statewide, Louisiana	Owner's Project Manager	Kirk Juneau
Owner's address, phone, email	504-887-7045		
Services commenced by this firm (mm/yy)		Total consultant contract cost (\$1,000's)	
Services completed by this firm (mm/yy)		Cost of consultant services provided by this firm (\$1,000's)	200

In 2017, Fugro was retained by the AIMS Group, Inc. as part of a larger team under the program leadership of the IEM corporation to perform a Lead Based Paint Inspections and Risk Assessments for the Restore Louisiana (RELA) project in the wake of the 2016 floods in Baton Rouge, Louisiana. The RELA project included Lead-Based Paint (LBP) inspections and risk assessments for various residential properties that were eligible for federal funding to assist with rebuilding efforts. Fugro provided multiple inspectors and risk assessors for this project and utilized project specific, real-time data entry in the field using tablet devices.

The inspections and risk assessments were conducted in general accordance with HUD guidelines, project specific requirements, and State of Louisiana regulations.

Screening locations for Lead Based Paint were chosen randomly to be representative of the homogeneous painted areas. Where possible, based on random sample locations, samples were taken preferentially from already distressed painted surfaces. In-place field screening for lead-based paint will be performed by X-ray fluorescence (XRF) field testing. All data was input into tablets and uploaded to a remote report generation system.

Fugro and AIMS Group team assignments were completed in 2018; approximate fees \$200,000.

**Project Team: Peter J. Cole – Project Director; Eric Marx, PE – Principal in Charge**

**Firm Experience:**

Firm name	<b>Leaaf Environmental, LLC</b>		Past Performance Evaluation Discipline(s)*	Environmental
Project name	LDEQ Site Investigations Contract		Firm responsibility (prime or sub?)	prime
Project number	LDQ	Owner's name	Louisiana Department of Environmental Quality	
Project location	Various Locations - Statewide		Owner's Project Manager	Keith Horn
Owner's address, phone, email	602 North Fifth Street, Baton Rouge, LA 70802; 225.219.3717; <a href="mailto:keith.horn@la.gov">keith.horn@la.gov</a>			
Services commenced by this firm (mm/yy)	05/16	Total consultant contract cost (\$1,000's)	~\$7,000	
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)	~\$7,000	

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

Leaaf has conducted work on the Louisiana Department of Environmental Quality's (LDEQ's) Site Investigations for the Remediation Division contract since 2016. As LDEQ's contractor, Leaaf has assisted with planning and performing site investigations, consultation, and performing additional environmental services. The goal of this contract is to investigate inactive and abandoned sites including former hazardous and solid waste sites. Leaaf assists the LDEQ with obtaining the information needed to support the contractor that implements remediation at these sites. Under this contract, Leaaf has conducted site investigations at 37 sites throughout the state of Louisiana associated with a \$900,000 per year site investigation program.

**RECAP Site Investigations:** - Leaaf performs site investigations throughout Louisiana investigating and delineating Constituents of Concern (COCs) according to LDEQ's Risk Evaluation/Corrective Action Program (RECAP) regulations. Some sites require clearing and grubbing of shrubs and brush. Site clearing may include necessary tree removal providing

a suitable area for investigation. To prepare for investigations, Leaaf has utilized EMS/ground-penetrating radar (GPR) surveys to locate buried features depending on historic circumstances. Site investigations include multiple borehole advancements and permanent monitoring well installations to depths up to 40 feet below ground surface (bgs). Leaaf collects soil and groundwater samples and obtains GPS coordinates for all soil and groundwater sample locations. If applicable, site data are evaluated with a geographic information system (GIS) and presented to LDEQ. Waste disposal includes sampling and disposal of drill cuttings, decontamination water, monitoring well development water and purge water. For each site Leaaf submits a RECAP Site Investigation Report and RECAP Evaluation Report detailing the work performed. Leaaf also conducts periodic groundwater monitoring at multiple sites and prepares Groundwater Monitoring Reports.

**Vapor Intrusion Assessments:** Leaaf has performed vapor intrusion evaluations at several sites, including dry cleaners, chemical storage facilities, and petroleum storage facilities. Leaaf is experienced with development of soil and groundwater RECAP standards to address the vapor intrusion risk pathway. Leaaf has also conducted indoor air and sub-slab vapor sampling and evaluated the results in accordance with RECAP guidance.



**Firm Members Involved:** Chase Cromwell, PG; Emily Reeves, MSPH

**Firm Experience:**

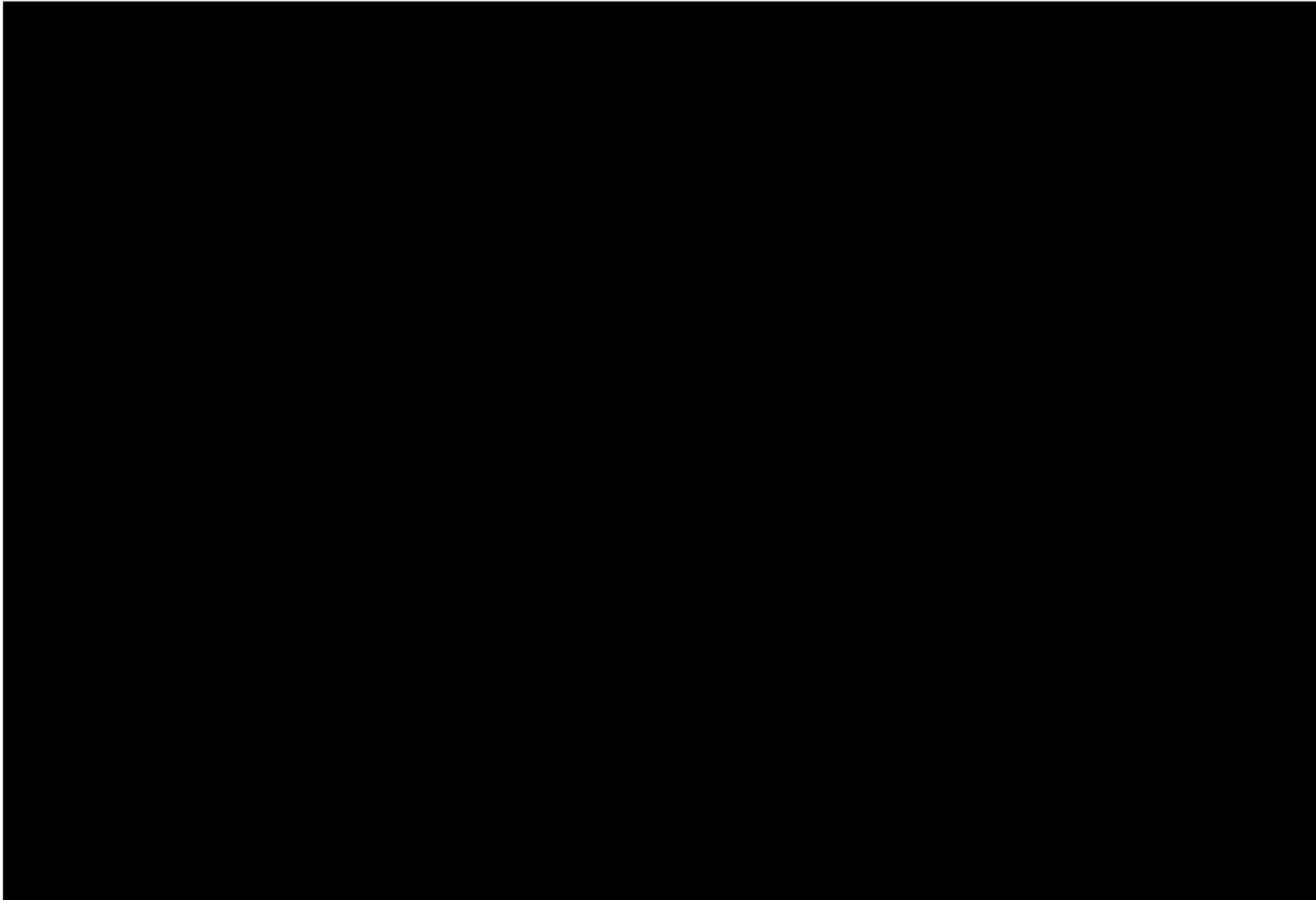
Firm name	<b>Leaaf Environmental, LLC</b>		Past Performance Evaluation Discipline(s)*	Environmental
Project name	Lead Waste Disposal Support		Firm responsibility (prime or sub?)	sub
Project number	LADOTD Project H.011766.6	Owner's name	Southern Railroad and Bridge	
Project location	Near I-20 Corridor; Ruston, Monroe, LA		Owner's Project Manager	Tanya Pilarinos
Owner's address, phone, email	715 Wesley Avenue, Tarpon Springs, FL 34689; 727.940.5395; <a href="mailto:tpilarinos@southernrb.com">tpilarinos@southernrb.com</a>			
Services commenced by this firm (mm/yy)	11/17	Total consultant contract cost (\$1,000's)	\$49.2	
Services completed by this firm (mm/yy)	06/19	Cost of consultant services provided by this firm (\$1,000's)	\$103.5	

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

Leaaf Environmental, LLC (Leaaf) provided professional personnel, sub-contractors and support to assist Southern Railroad and Bridge (SRB) in the management of the waste being generated during the rehabilitations of various bridges located near Monroe, LA. The project was associated with State of Louisiana Department of Transportation and Development (LADOTD) Project H.011766 Control Section Numbers 157-03, 451-05, 451-08, 015-08, 015-31, 158-01, 317-02 & 451-07 Bridge Repairs – Bearing Rehabilitation Deck Joint and Concrete Spall Repairs, and Cleaning & Painting Steel Routs I-20, LA 145, US 165, LA 546, and LA 151 Lincoln, Madison, Ouachita, Richland Parishes.

Leaaf completed the following tasks:

1. Hazardous Waste Disposal Plan
  - a. Leaaf developed a hazardous waste disposal plan for the project.
  - b. This plan was submitted to LADOTD for approval.
  - c. The plan was accepted without revision.
2. Waste Profiling
  - a. Leaaf profiled waste from each of the bridge site for proper disposal as generated by SRB during the rehabilitation of various bridges.
  - b. Based on the Scope of Work requirements the waste was to be considered hazardous based on lead content and that lead is the only contaminant that is causing the waste to be considered hazardous.
  - c. Leaaf coordinated with LDOTD to obtain the information needed to complete the profile for each bridge site.
3. Site Support for Transport
  - a. Leaaf's Waste Specialist coordinated with a hazardous waste trucking company for the pickup of the waste.
  - b. Leaaf provided a DOT and RCRA certified individual onsite to complete the manifest for the waste to be transported per visit.
  - c. Leaaf's Waste Specialist processed all paperwork and prepare a report for each bridge site.
  - d. Leaaf's waste specialist coordinated with LADOTD representative to sign the manifest prior to transporting.
  - e. Leaaf's Waste Specialist inspected the drums before loading to ensure that the drums were in good condition for shipping and that they were properly labeled.
4. Transportation



**Firm Experience:**

Firm name	<b>Leaaf Environmental, LLC</b>		Past Performance Evaluation Discipline(s)*	Environmental
Project name	Bayou Bonfouca Superfunds Site		Firm responsibility (prime or sub?)	prime
Project number	LDQ-041	Owner's name	Louisiana Department of Environmental Quality	
Project location	Slidell, LA		Owner's Project Manager	Keith Horn
Owner's address, phone, email	602 North Fifth Street, Baton Rouge, LA 70802; 225.219.3717; <a href="mailto:keith.horn@la.gov">keith.horn@la.gov</a>			
Services commenced by this firm (mm/yy)	05/17	Total consultant contract cost (\$1,000's)		\$709
Services completed by this firm (mm/yy)	02/21	Cost of consultant services provided by this firm (\$1,000's)		\$709



**Objective:** The Bayou Bonfouca Superfund Site (Louisiana Department of Environmental Quality [LDEQ] Agency Interest No. 4716) was a creosote plant (late 1800s through 1970) that is currently in the remedy phase of the Superfund process. The object of the investigation is to evaluate the current extent of the non-aqueous phase liquid (NAPL) groundwater plume and current constituent of concern concentrations in soil. In addition, Leaaf Environmental, LLC (Leaaf) was tasked to repair and replace multiple recovery and monitoring wells.

**Description of Work:** Under contract to LDEQ, Leaaf researched site history and worked in cooperation with the LDEQ, Environmental Protection Agency (EPA) Region 6, and the on-site treatment system Operations and Maintenance (O&M) contractor to conduct multiple site assessments, a Risk Evaluation/Corrective Action Program (RECAP) Evaluation, and recovery well replacements. As part of these activities, Leaaf prepared Site Investigation Work Plans, Quality Assurance Project Plans (QAPPs), Technical Sampling and Analysis Plans (SAPs), and site-specific Health and Safety Plans (HASPs) in accordance with RECAP guidance.

The Site Investigation Work Plans were reviewed and approved by LDEQ, with input from EPA Region 6, and the on-site treatment system O&M contractor.

In 2018, Leaaf completed two Site Investigations designed to evaluate the current extent of the subsurface NAPL and current soil and groundwater constituents of concern (COC) concentrations used in creosoting processes. The project included locating the NAPL plume using TarGOST (Tar-specific Green Optical Screening Tool), a downhole-borehole NAPL screening technology, and collecting soil samples to confirm the TarGOST findings and determine current COC soil concentrations. The NAPL plume extent and soil and groundwater Samples were also collected near residences to facilitate enclosed space risk evaluation. COCs were documented in a RECAP Evaluation dated June 2019. In addition, borings were installed through the on-site ash landfill cap to sample and analyze ash characteristics for potential reuse options of the ash, and to evaluate the NAPL plum beneath the landfill.

In March 2020, Leaaf conducted a Limited Sediment Site Investigation to evaluate the concentrations of sediment COCs within Bayou Bonfouca. The data generated were evaluated with respect to the PAH standards defined in the 1987 Record of Decision and further evaluated by LDEQ and the Louisiana Department of Health with respect to human health risks. The results of the sediment sampling were evaluated to remove a long-standing contact advisory from Bayou Bonfouca. In September 2020, Leaaf replaced six recovery wells along with their submersible pumps and associated equipment.

**Firm Members Involved:** Chase Cromwell, PG; Emily Reeves, MSPH



**Firm Experience:**

Firm name	<b>A P S Engineering and Testing, LLC</b>		Past Performance Evaluation Discipline(s)*	Geotech
Project name	I-10 Widening LA 415 to Essen LN		Firm responsibility (prime or sub?)	Sub
Project number	H.004100	Owner's name	DOTD	
Project location	Baton Rouge	Owner's Project Manager	Kristy Smith, P.E.	
Owner's address, phone, email	1201 Capital Access Rd., Baton Rouge, LA. 70802-4438 (225) 379-1016 Kristy.Smith2@LA.GOV			
Services commenced by this firm (mm/yy)	09/19	Total consultant contract cost (\$1,000's)	N/A	
Services completed by this firm (mm/yy)	On-going	Cost of consultant services provided by this firm (\$1,000's)	\$400	

GEOTECHNICAL INVESTIGATION TO PROVIDE CLIENT WITH THE NECESSARY INFORMATION FOR PLANNING AND DESIGN OF I-10 WIDENING. A P S WAS TASKED THRU OUR DOTD GEOTECHNICAL RETAINER TO DRILL AND SAMPLE A TOTAL OF 52 DEEP BORINGS STARTING AT THE WASHINGTON EXIT AND ENDING AT THE LSU LAKES. ALONG WITH THIS DRILLING AND SAMPLING, A P S WILL ALSO TEST FOR STRENGTH AND ENGINEERING CHARACTERISTICS OF THE SOILS. A TOTAL OF EIGHT (8) OVER THE WATER BORINGS AND 44 LAND BORINGS WITH APPROXIMATELY 1000 TRIAXIAL COMPRESSION, UNCONSOLIDATED DRAINED OR UNDRAINED (UU) AND ATTERBERG LIMITS PERFORMED.

MEMBERS INVOLVED:

ENGINEERING

- SERGIO AVILES, P.E. - PROJECT MANAGER**
- SAI EDDANAPUDI, M.E., P.E. - PROJECT ENGINEER**
- SURENDRA RAJ PATHAK, M.S., P.E. - STAFF ENGINEER**

LABORATORY TESTING

- SERGIO AVILES, P.E. - QA/QC**
- SAI EDDANAPUDI, M.E., P.E. - QA/QC**

DRILLING

- VAN GEORGE – DRILLER
- MELVIN VASQUEZ - DRILLER TECH
- ERIC BATEASTE – DRILLER

SIMILARITIES TO PROFESSIONAL GEOTECHNICAL SERVICES

- X** Geotechnical Explorations (GE)
- X** Geotechnical Design (GD)
- X** Geotechnical Construction (GC)
- X** Topographic Survey (LC)
- X** CMAR
- X** Contract Management (CM)



**Firm Experience:**

Firm name	<b>A P S Engineering and Testing, LLC</b>	Past Performance Evaluation Discipline(s)*	Geotech
Project name	Comite River Diversion Bridge at LA-67, LA-19 AND LA-19 Railroad Bridge	Firm responsibility (prime or sub?)	Sub
Project number	H.001352 and H.002273	Owner's name	Huval & Associates, Inc.
Project location	Baton Rouge	Owner's Project Manager	Kristy Smith, P.E.
Owner's address, phone, email	922 West Pont des Mouton Road Lafayette, LA 70507 Wk: (337) 234-3798 Fax: (337) 234-2475 tgattle@huvalassoc.com		
Services commenced by this firm (mm/yy)	05/20	Total consultant contract cost (\$1,000's)	N/A
Services completed by this firm (mm/yy)	On-going	Cost of consultant services provided by this firm (\$1,000's)	\$150

GEOTECHNICAL ENGINEERING TO PROVIDE CLIENT WITH THE NECESSARY INFORMATION FOR PLANNING AND BUILDING OF LA-19 RR BRIDGE - SLOPE STABILITY (EMBANKMENT), LA- 19 RR BRIDGE - EMBANKMENT/ MSE WALL SETTLEMENT/ RETAINING WALL, LA 19 TWIN BRIDGE S - PPC PILES, LA-67 BRIDGE - DRILLED SHAFTS. ALL THE NECESSARY DESIGN WILL BE PERFORMED BY A P S. TASK ORDER ISSUED AS OF TODAY. A P S DRILLED AND SAMPLED ALL THE BORINGS FOR DOTD THRU THE GEOTECHNICAL RETAINER AND TESTING WAS PERFORMED IN HOUSE BY A P S LABORATORY.

MEMBERS INVOLVED:

ENGINEERING

**SERGIO AVILES, P.E.- PROJECT MANAGER**

**SAI EDDANAPUDI, M.E., P.E.-PROJECT ENGINEER**

**SURENDRA RAJ PATHAK, M.S., P.E.-STAFF ENGINEER**

LABORATORY TESTING

**SERGIO AVILES, P.E.- QA/ QC**

**SAI EDDANAPUDI, M.E., P.E.-  
QA/ QC DONNA EASTERLY- LAB  
MANAGER**

CINDY FALKS-LAB TECH

DRILLING

VAN GEORGE -DRILLER

ERIC BATEASTE- DRILLER

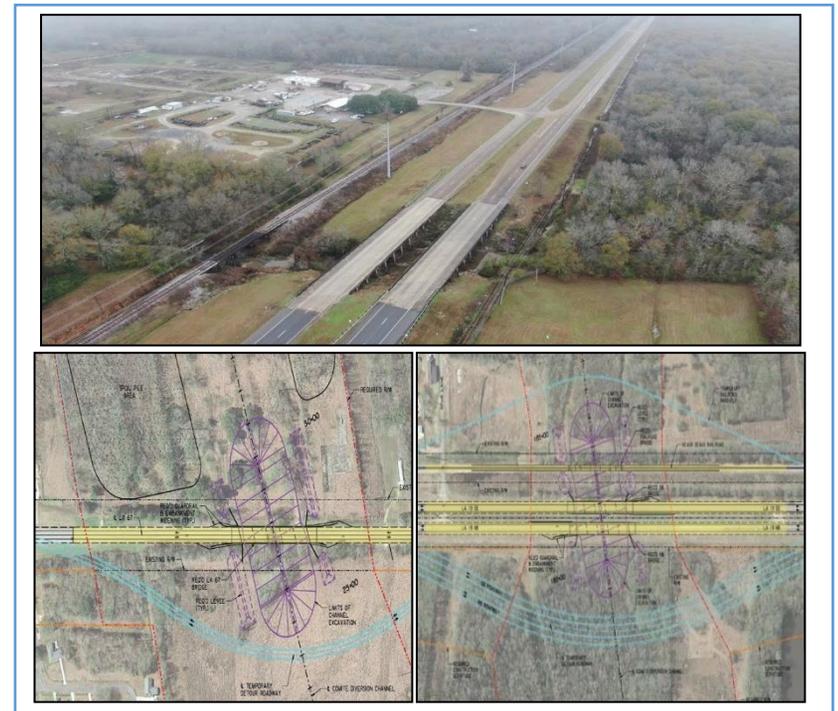
MELVIN VASQUEZ –DRILLER

TECH

OSCAR JOHNSON- DRILLER TECH, TRENTON ANDERSON- DRILLER TECH

SIMILARITIES TO PROFESSIONAL GEOTECHNICAL SERVICES

- Geotechnical Explorations (GE)
- Geotechnical Design (GD)
- Geotechnical Construction (GC)
- CMAR
- Constructability
- Contract Management (CM)



**Firm Experience:**

Firm name	<b>A P S Engineering and Testing, LLC</b>		Past Performance Evaluation Discipline(s)*	Geotech	
Project name	US-90 Railroad Overpass (S. East of LA-85)			Firm responsibility (prime or sub?)	Sub
Project number	H.010155	Owner's name	Shread-Kurykendall & Associates, Inc		
Project location	Iberia Parish		Owner's Project Manager	Nicci D. Gill	
Owner's address, phone, email	13016 Justice Ave. Baton Rouge, LA 70816 (225) 296-1335 (225) 296-1338 (fax) ngill@skaenger.com				
Services commenced by this firm (mm/yy)	11/19	Total consultant contract cost (\$1,000's)		N/A	
Services completed by this firm (mm/yy)	03/20	Cost of consultant services provided by this firm (\$1,000's)		\$105	

GEOTECHNICAL INVESTIGATION TO PROVIDE CLIENT WITH THE NECESSARY INFORMATION FOR PLANNING AND DESIGN OF A 12 FT. X 10 FT. RCB, 412 FT. IN LENGTH. A TOTAL OF SIX (6) DEEP BORINGS WERE COMPLETED BY A P S. OVER 60 ATTERBERGS AND UUs WERE TESTED BY A P S WITH 18 CONSOLIDATION TESTS. ALL THE NECESSARY TESTING WAS PERFORMED IN HOUSE BY A P S LABORATORY.

MEMBERS INVOLVED:

ENGINEERING

**SERGIO AVILES, P.E.- PROJECT MANAGER**

**SAI EDDANAPUDI, M.E., P.E.- PROJECT ENGINEER**

**SURENDRA RAJ PATHAK, M.S., P.E.-STAFF ENGINEER**

LABORATORY TESTING

**SERGIO AVILES, P.E.-QA/QC**

**SAI EDDANAPUDI, M.E., P.E.- QA/  
QC DONNA EASTERLY- LAB M  
ANAGER**

CINDY FALKS-LAB TECH

DRILLING

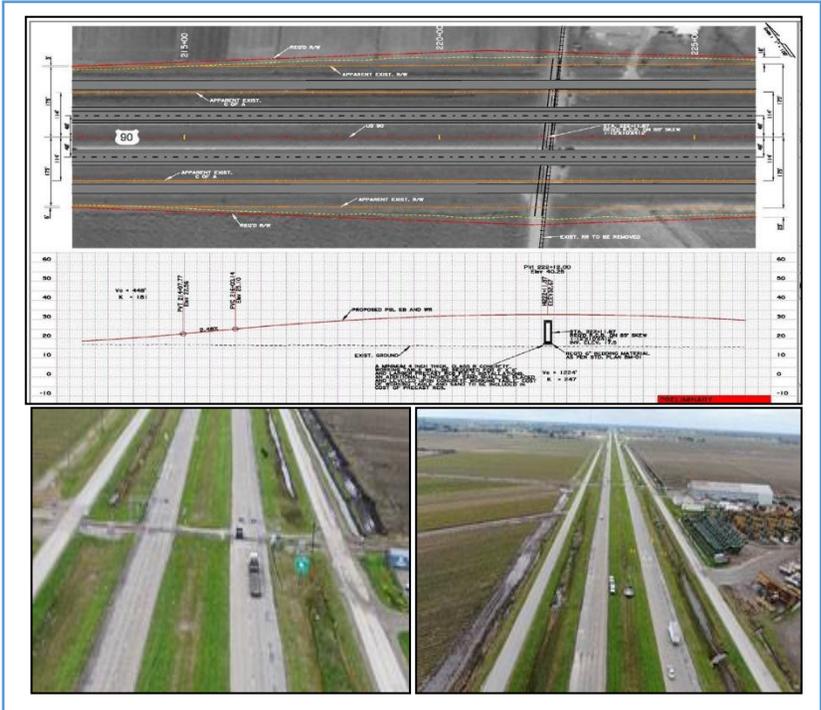
MELVIN VASQUEZ -DRILLER  
TECHVAN GEORGE -DRILLER

ERIC BATEASTE- DRILLER

OSCAR JOHNSON- DRILLER TECH

TRENTON ANDERSON-DRILLER TECH

SIMILARITIES TO PROFESSIONAL GEOTECHNICAL SERVICES	
X	Geotechnical Explorations (GE)
X	Geotechnical Design (GD)
X	Geotechnical Construction (GC)
X	Constructability
X	Contract Management (CM)



## 17. Approach and Methodology:

Fugro will perform Environmental and Engineering Services at the project site to include data review, soil and water sampling and testing, associated reporting and other consulting tasks in general accordance with the terms of this contract. Individual services may include the plugging and abandoning of existing monitoring wells, installation of new wells at locations to be determined, for the purposes of identifying and assessing the presence and concentrations of EDC or other Contaminants of Concern (COCs). All soil borings and subsequent laboratory testing will be conducted in general accordance with Louisiana Department of Transportation & Development (LA DOTD) 2016 Standard Specifications for Roads and Bridges Manual and applicable Geotechnical Guidelines.

### Resources –Environmental Engineers, Geologists, and Professionals

Fugro’s professional staff includes Professional Environmental Engineers and Geologists licensed in the State of Louisiana as well as other environmental professionals with over 60 years of combined experience in environmental investigations and consulting. Additionally, our staff of geotechnical engineers provide unsurpassed knowledge and expertise of the unique subsurface environments and ground conditions of Louisiana. Backed by a global network of Engineers and Scientists, Fugro is well equipped to provide delivery excellence for this contract.



### Fugro along with our partner, Leaa Environmental, LLC

routinely perform the tasks presented in this contract and our team is prepared and eager to provide our professional expertise and services to DOTD to aid in the execution of the following tasks:

- Review of Historical Data
- Site Reconnaissance
- Subsurface Site Characterization
- Phase I and II Environmental Site Assessment
- Soil and Groundwater Sampling and Analytical Testing
- Design, Implementation and Monitoring of Corrective Action Plan
- Site Remediation Plan development, implementation, and reporting

Fugro maintains industry-recognized certifications and practices for our laboratories and staff to sample, test, observe and verify environmental compliance. Our services are guided by project specifications and coordinated with contractors, subcontractors and suppliers. Exact standards in data acquisition, quality management and safety procedures ensure that you can rely on the highest levels of professional and technical competence. Our environmental services are overseen by Louisiana registered professional engineers and experience environmental professionals. In addition, we participate in ISO 9001, maintain our AASHTO and LDEQ accreditations and USACE validations. We also have a zero-tolerance substance abuse policy that includes pre-employment, after-accident, and random testing. Our experienced field technicians know the local contractors and materials suppliers and are proud of the rapport they have with both. Similarly, our field and laboratory technicians are well-equipped and experienced.



Fugro understands that the success of a project and satisfaction of stakeholders depends on a proper planning and efficient execution. These goals cannot be accomplished without a capable and professional workforce equipped with the tools necessary to complete a task to the level of quality we expect of ourselves and that our clients demand. Our Louisiana-based drillers, loggers, technicians, and engineers have demonstrated over the course of our current Geotechnical Retainer and Corrective Action Plan IDIQ contracts, that we will deliver quality field work, reliable geotechnical and environmental data, and valuable engineering consultation in a safe and timely manner on behalf of DOTD. The following sections provide additional detail on the scope of this contract and how the Fugro team will deliver once awarded this contract.

### **Task 1.0 – Historical Data Review**

- Fugro will obtain and review relevant site historical data through the Louisiana Department of Environmental Quality (LDEQ), DOTD, and U.S. Environmental Protection Agency, as required.
  - Review will include assessment of work plans and site investigation reports, with particular attention focused on assessment of data quality related to analytical reports and EDC plume migration related to potentiometric and isometric trends
- Following Fugro’s review, a summary report will be written and submitted providing a list of reviewed materials, summary of COCs and concentrations relative to RECAP standards, and recommendations for proposed monitoring wells
- Fugro will rely on collective environmental experience and knowledge of Louisiana hydrogeology. Additionally, Fugro will rely on the site-specific knowledge and expertise of **Mike Allen, PG** who conducted a number of the environmental investigations, well installations, and monitoring events previously performed at the project site

### **Task 2.0 – Construction Plans and Construction Technique Review**

- Fugro will review the construction proposal for the Sampson street Interchange and Calcasieu River Bridge in the vicinity of the EDC plume, specifically focusing on deep foundations and other subsurface structures as well as the lateral extent of the construction relative to the observed or anticipated extents of the EDC plume.
- Fugro will meet with DOTD, its consultants, and P3 contractor to ensure a clear understanding of proposed construction and provide consultation related to potential risks and alternative approaches to construction and construction techniques that will mitigate said risk.
- For this task Fugro will rely on the expertise of **Paul Bullock, PhD, PE**, who provides decades of expertise in deep foundation design, installation and testing and whose numerous publications have been cited by DOTs across the country.

### **Task 3.0 – Develop Sampling Plan and Analysis Plan**

- Fugro will develop a sampling and testing plan to be conducted during the installation of monitoring wells and afterwards at defined, approved intervals.
  - Testing will include soil and groundwater analysis to establish baseline conditions prior to the start of construction activities, periodic monitoring throughout construction, and then for a to-be-determined period of time following the completion of construction.
  - The plan will include COCs, methods and procedures of sample collection and testing. The plan will also identify NELAP/LELAP certified laboratory(ies) to be utilized and will be conducted in general accordance with LDEQ’s RECAP Appendix B Guidelines
    - For any testing require that relates to geotechnical properties **Fugro** will test in house as a LELAP certified geotechnical lab.
  - The installation, or plugging of any monitoring wells or geotechnical boreholes will be conducted in general accordance with the 2020 edition of Construction of Geotechnical Boreholes and Groundwater Monitoring Systems Handbook.
  - Additionally, all work will be conducted in accordance with the project QA/QC plan which shall include a project Health and Safety plan and all will be submitted to DOTD for review and approval prior to the start of field activities.

### **Task 4.0 – Project Coordination and Meetings**

- Fugro will designate a Project Coordinator to ensure that consistent and effective communication between the project team and DOTD Environmental Project Manager and/or DOTD Project Manager are maintained throughout the duration of the contract.
- Should the Project Coordinator be unavailable for any reason, a designated project manager will act as the point of contact as needed. When necessary to provide specific expertise, Fugro will include subject matter experts in communications and/or meetings.

## **Additional Services**

### **Task 5.0 – Secure Permits and Right of Entry**

- Fugro will perform a preliminary assessment of permits and rights-of-entry (ROE) that may be required for the completion of field tasks included in the scope of this project and will confer with the appropriate permit/ROE authority prior to the start of field activities.
  - At this time Fugro understands that permits may be required through the US Army Corps of Engineers-New Orleans District (NOD) and/or LDEQ and that individual permits may include Nationwide Permit-6, Section 10/404, and/or Water Quality Certification.
  - ROE approvals may be required from railroads, state/local authorities, and/or private landowners
  - A designated point of contact for landowner engagement will be established upon contract award.
- All activities requiring subsurface work will be conducted only after placing a Louisiana One-call ticket and additional hazard mitigation though the use of magnetometer or other methods deemed applicable by Fugro.

### **Task 6.0 – Installation and Monitoring of Monitor Wells**

- As needed and upon receipt of necessary approvals, Fugro will install monitor wells in accordance with current industrial standards.
  - **Sheldon Collins** is the Louisiana-licensed water well driller for this contract and his certification is included in Section 20.
  - Geotechnical borings will be conducted

### **Soil Boring Methodology**

- Fugro will precede soil boring activities with a detailed site visit to ensure proper equipment selection(s) based on project scale and site accessibility.
- Borings will be completed using truck-, track-, or ATV-mounted drilling equipment based on accessibility, and will employ a combination of dry auger and wet rotary techniques
- Borings to be sampled continuously from existing grade to a depth of 16-ft, then at 5-ft intervals to 100-ft or completion whichever comes first, and logged in general accordance with the *Standard Practice for Description and Identification of Soils (Visual-Manual Procedures)* (ASTM D2488).
- Cohesive soils will be sampled using a thin-wall tube sampler in general accordance with the *Standard Practice for Thin-Walled Tube Sampling of Soils for Geotechnical Purposes* (ASTM D1587).
  - Tube samplers will be a minimum of 3 inches and sample length will be 24-inches
- Granular soils will be sampled using a split-spoon sampler in general accordance with the *Standard Test Method for Standard Penetration Test and Split-Barrel Sampling of Soils* (ASTM D1586).
  - Split-spoon samples will be collected for 18-inch sample length unless SPT indicates refusal to be defined as greater than 25 blows per 6 inches or 100 total blows per 18 inches.
- Estimate cohesive soil shear strengths in the field using a pocket penetrometer and/or Torvane.
- Record SPT N-values in granular soils.
- Measure short-term depth-to-water in open boreholes during drilling.
- Install and develop well upon completion of drilling and sampling activities.
- Undisturbed samples will be capped and sealed to preserve natural moisture conditions and will then transported to our lab for extrusion and laboratory testing.

Quantity	Rig	Drill Method				Drill Mount					Normal Drilling Capability
		Hollow-Stem	Rotary Wash	Air Rotary	Hydraulic Sampling	Truck	Buggy/Track	Skid	Portable	Trailer	
2	CME 850	✓	✓				✓				150' (augers) and 300' (wet rotary)
5	CME 75	✓	✓			✓					150' (augers) and 300' (wet rotary)
1	CME 750	✓	✓				✓				150' (augers) and 300' (wet rotary)
3	CME 55	✓	✓	✓		✓					100' (augers) and 500' wireline
1	CME 55	✓	✓					✓			100' (augers)
1	CME 75	✓	✓					✓			150' (augers)
1	Falling 1500	✓	✓			✓					1000'
1	Little Beaver	✓	✓						✓		50'



**Fugro Drilling Equipment** (left to right): Summary of available Drilling Rigs, Truck, Track, ATV Rigs

### Laboratory Methodology

Fugro maintains current AASHTO and LELAP accreditations for the test geotechnical methods anticipated for this contract at our Baton Rouge laboratory. Current certificates are included in Section 20. Analytical testing procedures will be subcontracted to a LELAP certified laboratory to be identified in the sampling and testing plan to be completed upon contract award. The actual laboratory testing to be performed will be developed once the field logs have been reviewed. At this time, we anticipate performing the following laboratory work:

- Soil classification tests, including but not limited to, natural moisture contents & unit weights (ASTM D2216), liquid and plastic limits (ASTM D4318), grain-size analyses (ASTM D1140/D6913/D422), and organic content (ASTM D2974) (if necessary);
  - Hydraulic Conductivity will be tested as required according to ASTM D5084.
- Grain size testing will be conducted at a rate sufficient to classify soils.

### Task 7.0 – Develop Phase II Site Assessment Report

- Following Phase II sampling, testing, and analysis, Fugro will develop a Phase II Site Assessment Report for the project site in accordance with ASTM E1903-19.
- Testing results will be provided in tabular form alongside applicable RECAP standards to determine potential impacts of COCs
- Hydrogeology and EDC contaminant plume information will be presented in order to assess potential impacts related to project construction activities.

### Task 8.0 – Additional Data Review (if necessary)

- Fugro will review any pertinent data provided by LDEQ or other third parties relating to future site assessment and/or remediation efforts such as pilot programs which may impact the current proposed Right of Way.
- This additional data review will be conducted to support any potential future monitoring and remediation programs for the project site.

**18. Workload:**

For all contracts where a firm on the team is a prime consultant or sub-consultant and where **a)** the consultant selection was made by DOTD, and **b)** a contract was executed by the consultant and the contracting entity by the date the advertisement for this proposal was posted, list all work meeting the following criteria:

- 1) one of the team's firms is responsible for the performance of the work;
- 2) authorization to perform the work has been provided, as provided in the contract between the consultant and the contracting entity;
- 3) the work has not yet been performed and invoiced; and
- 4) the work is not currently suspended for an indefinite period of time.

For indefinite delivery/indefinite quantity (IDIQ) contracts, list open Task Orders individually.

List only the portion of the fees attributable to firms on the team.

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Fugro USA Land, Inc.	Geotechnical	H.014993	Lemon Road over Drainage Bayou (project in proposal phase)	N/A
Fugro USA Land, Inc.	Environmental	44-16176	CAP IDIQ contract (no open task orders)	N/A
Leaaf Environmental, LLC	Environmental	44-16176	CAP IDIQ contract – sub to Fugro (no open task orders)	N/A
A P S Engineering and Testing, LLC	Geotech	State Project No. H.013127	Retainer Contract for Geotechnical Services	\$216,934

(Add rows as needed)

DO NOT SUM

**19. Certifications/Licenses:**

If the advertisement requires submission of licenses and/or certificates, include them here. **Otherwise, leave this section blank.**

**Professional Licensing**

Name:		Public Address:	
Fugro USA Land, Inc.		6100 Hillcroft Avenue	
Houston, Texas 77081			
<b>License/Certificate Information w/ Supervision</b>			
License	Status	First Issuance Date	Expiration Date Supervisor(s)
EF.0003154	Active	06/08/2004	09/30/2024 Mr. Eric Robert Marx # PE.0031479 - Active ; Mr. Morgan Dewey Reed # PE.0024224 - Active





**AASHTO**  
ACCREDITED

**CERTIFICATE OF  
ACCREDITATION**



**Fugro USA Land, Inc.**

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](http://aashtoresource.org)).

Jim Tymon,  
AASHTO Executive Director

Moe Jamshidi,  
AASHTO COMP Chair

This certificate was generated on 02/03/2022 at 8:44 AM Eastern Time. Please confirm the current accreditation status of this laboratory at [aashtoresource.org/aap/accreditation-directory](http://aashtoresource.org/aap/accreditation-directory)



# SCOPE OF AASHTO ACCREDITATION FOR:

Fugro USA Land, Inc.

in Baton Rouge, Louisiana, USA

## Quality Management System

### Standard:

### Accredited Since:

R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	03/09/2009
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	01/10/2011
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	12/31/2013

## Aggregate

### Standard:

### Accredited Since:

C29	Bulk Density ("Unit Weight") and Voids in Aggregate	12/31/2013
C117	Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	01/18/2012
C127	Specific Gravity and Absorption of Coarse Aggregate	01/18/2012
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	01/18/2012
C136	Sieve Analysis of Fine and Coarse Aggregates	03/09/2009

# Soil

**Standard:**
**Accredited Since:**

D421 Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	03/09/2009
D422 Particle Size Analysis of Soils by Hydrometer	03/09/2009
D698 The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	03/09/2009
D854 Specific Gravity of Soils	01/18/2012
D1140 Amount of Material in Soils Finer than the No. 200 (75- $\mu$ m) Sieve	01/18/2012
D1556 Density of Soil In-Place by the Sand Cone Method	12/31/2013
D1557 Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	03/09/2009
D2166 Unconfined Compressive Strength of Cohesive Soil	03/09/2009
D2216 Laboratory Determination of Moisture Content of Soils	03/09/2009
D2435 One-Dimensional Consolidation Properties of Soils Using Incremental Loading	12/31/2013
D2487 Classification of Soils for Engineering Purposes (Unified Soil Classification System)	12/31/2013
D2488 Description and Identification of Soils (Visual-Manual Procedure)	12/31/2013
D2850 Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	03/09/2009
D2974 Determination of Organic Content in Soils by Loss on Ignition	01/18/2012
D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	03/09/2009
D4318 Plastic Limit of Soils (Atterberg Limits)	03/09/2009
D4546 One-Dimensional Swell or Settlement Potential of Cohesive Soils	12/31/2013
D4643 Determination of Water (Moisture) Content of Soil by Microwave Oven Heating	12/31/2013
D4972 pH Testing of Soils	12/31/2013
D5084 Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter	12/31/2013
D6913 Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	06/06/2016
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	03/09/2009

**Leaaf Environmental, LLC:**

Louisiana Economic Development (LED), Division of Small Business Services, certified Small Entrepreneurship (Hudson Initiative)

State of Louisiana Contractor's License for the following classifications: Hazardous Materials; Asbestos Removal and Abatement; Hazardous Waste Treatment or Removal; Install Repair or Close Underground Storage Tanks; Lead Based Paint Abatement and Removal

Jim Blazek, Jr - LDEQ UST Closure Certification; C-94366; Expires 12/31/2024

Chase Cromwell - State of Louisiana Board of Professional Geoscientist Certification; #1360; Expires 1/11/2024

Chase Cromwell - LDEQ UST Closure Certification; C-218396; Expires 12/31/2024

**20. QA/QC Plan:**

If the advertisement requires submission of a QA/QC plan, include it here. **Otherwise, leave this section blank. If a QA/QC plan is included in this section and was not required by the advertisement, it will be redacted.**

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**Fugro has prepared a QA/QC plan and will submit promptly upon notice of contract award**

**21. Sub-consultant information:**

If one or more sub-consultants will be used, provide the name, address, point of contact and phone number for each. Otherwise, leave this section blank.

<b>Firm Name (Name must match as registered with Louisiana's Secretary of State)</b>	<b>Address</b>	<b>Point of Contact and email address</b>	<b>Phone Number</b>
Leaaf Environmental, LLC	2301 Whitney Avenue Gretna, LA 70056	Jim Blazek, Jr. <a href="mailto:jhoppes@leaaf.com">jhoppes@leaaf.com</a>	504-342-2687
APS Engineering & Testing, LLC	1645 Nicholson Drive, Baton Rouge, LA 70802	Sergio Aviles, PE - President <a href="mailto:sergio@aps-testing.com">sergio@aps-testing.com</a>	225-456-5714

(Add rows as needed)

**22. Location:**

If location is an evaluation criterion for this advertisement and the prime consultant intends to establish a local presence, describe the plan for doing so. **Otherwise, leave this section blank. Any information included in this section will be redacted if not required by the advertisement.**

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We provide the people, equipment, expertise and technology that support the exploration, development, production and transportation of our world's natural resources. We'll give you the technical data and information required to design, construct and maintain your structures and infrastructure in a safe, reliable and efficient manner.

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