

PARISH OF JEFFERSON

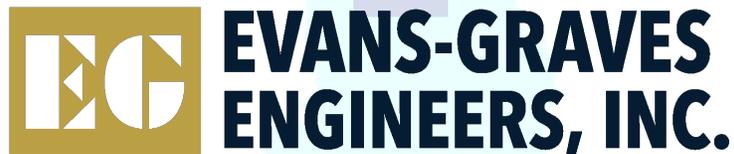
STATEMENT OF QUALIFICATIONS

FOR

COASTAL ENGINEERING CONSULTING SERVICES AS-NEEDED PARISH WIDE

*RESOLUTION No. 144205
SOQ 24-020*

SUBMITTED BY:



909 POYDRAS STREET, SUITE 3050
NEW ORLEANS, LOUISIANA 70112

in association with



July 16, 2024



EVANS-GRAVES ENGINEERS, INC.
Engineering Consultants
Est. 1954

John A. Graves, P.E., P.L.S. (1941-2021)
Ashlyn A. Graves, President
Gerald G. Menard, P.E.
P. Stephen Lundgren, Jr., P.E.
Jack Carr Morgan, P.E., P.L.S.
Max O. Usrey, III, P.E., P.L.S.

Keith M. Meyer, P.E.
Lisa A. Blanchard, P.E.
Brett D. Blanchard, P.E., L.S.I.
Logan P. Betzer, E.I.
Alexander J. Young, E.I.
Zachary P. Hebert, E.I.

July 16, 2024

Jefferson Parish Purchasing Department
c/o Mark Buttery, Purchasing Specialist II
General Government Building
200 Derbigny St., Suite 4400
Gretna, LA 70053

Re: Letter of Interest
Coastal Engineering Consulting Services As-Needed Parish Wide
Resolution No. 144205

Dear Mr. Buttery:

Evans-Graves Engineers, Inc. (EG) is pleased to submit our Statement of Qualifications in response to Jefferson Parish's solicitation requesting professional engineering services for **Coastal Engineering Consulting Services As-Needed Parish Wide** (Resolution No. 144205).

Within this submittal of qualifications, EG demonstrates that we have the required personnel, experience, Jefferson Parish knowledge, and presence to deliver a quality project. Evans-Graves Engineers, Inc. will comply with the terms specified in the RFQ and is qualified to complete all tasks associated with this type of work.

Evans-Graves will staff this project with many of the same personnel that successfully completed the projects listed in our Statement of Qualifications, Section L. Mr. P. Stephen Lundgren Jr., P.E. will be the Senior Project Manager. Mr. Lundgren is Chief Engineer of our New Orleans office and is an experienced Project Manager on projects similar to this.

Evans-Graves hereby commits its total resources and 70 years of experience to provide you with a successful project. Evans-Graves appreciates the opportunity to respond to Jefferson Parish and we look forward to working with you on this important work for the Parish.

Sincerely,
EVANS-GRAVES ENGINEERS, INC.

Ashlyn A. Graves
President

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Coastal Engineering Consulting Services As-Needed Parish Wide
Resolution #144205

B. Firm Name & Address:

Evans-Graves Engineers, Inc.
909 Poydras Street, Suite 3050
New Orleans, LA 70112

C. Name, title and contact information of Principal, as defined in Section 2-926 of the Jefferson Parish Code of Ordinances, who is a registered, licensed architect, professional engineer, or surveyor in the State of Louisiana:

Gerald G. Menard, P.E.
Principal
9029 Jefferson Highway, Suite 200
Baton Rouge, LA 70809
(225) 926-1620
gmenard@evans-graves.com

D. Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline.

P. Stephen Lundgren Jr., P.E.
Chief Engineer
909 Poydras Street, Suite 3050
(504) 836-8190
slundgren@evans-graves.com

E. Please provide the number of employees whose primary function corresponds with each category:

| | | |
|-------------------------------|-----------------------------|------------------------------|
| 8 Administrative | ___ Estimators | ___ Specification Writers |
| ___ Architects (Licensed) | ___ Geologists | 1 Structural Engineers |
| ___ Chemical Engineers | ___ Geotechnical Engineers | ___ Graduate Engineers |
| 6 Civil Engineers | ___ Interior Designers | 1 Project Managers |
| 1 Construction Inspectors | ___ Landscape Architects | 2 Clerical |
| ___ Ecologists | 6 Land Surveyor | ___ Grant/Funding Specialist |
| ___ Electrical Engineers | ___ Mechanical Engineers | ___ Sanitary Engineers |
| 2 Engineer Intern | ___ Environmental Engineers | |
| 1 Professional Land Surveyors | | 28 TOTAL |

F. Is this submittal by a JOINT-VENTURE? Please check: YES NO

If marked "No" skip to Section I. If marked "yes" complete Sections G-H.

TEC Professional Services Questionnaire

G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.

1.
N/A

2.
N/A

H. Has this JOINT-VENTURE previously worked together? Please check:
 YES NO

I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.

| Name & Address: | Specialty: | Worked with Firm Before (Yes or No): |
|---|--------------------------------------|--------------------------------------|
| 1. Fugro USA Land, Inc. 4233 Rhoda Drive Baton Rouge, LA 70816 | Surveying / Geotechnical Engineering | Yes |
| 2. | | |
| 3. | | |

J. Please specify the total number of support personnel that may assist in the completion of this Project:

12 _____

TEC Professional Services Questionnaire

K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e. resume) that demonstrates the employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Please see attached resumes for Professional in Charge as well as Key Personnel.

Project Assignment:

Name of Firm with which associated:

Years' experience with this Firm:

Education: Degree(s)/Year/Specialization:

Active registration: Year first registered/discipline:

Other experience and qualifications relevant to the proposed Project:

TEC Professional Services Questionnaire

| |
|--|
| PROFESSIONAL IN CHARGE OF PROJECT: |
| Name & Title: P. Stephen Lundgren Jr., P.E., Chief Engineer |
| Project Assignment: Sr. Project Manager |
| Name of Firm with which associated:  EVANS-GRAVES ENGINEERS, INC. |
| Years' experience with this Firm: 19 |
| Education: Degree(s)/Year/Specialization: MS / 1993 / Civil Engineering BS / 1992 / Civil Engineering |
| Active Registration: Year first registered/discipline: 1999 / Professional Civil Engineer / LA License No. 28222 |
| Other experience and qualifications relevant to the proposed Project: <p>Mr. Lundgren has experience in design and management of various engineering projects with a focus on design and implementation of water resources projects for the USACE, FEMA, CPRA, SLFPA-E, SLFPA-W, New Orleans Sewerage & Water Board, LA DOTD, and numerous parishes & levee boards throughout the state. He has extensive experience working closely with local governments, having developed engineering reports, master plans, and construction plans and specifications for various projects, including hurricane repair projects, roadway and utility projects, pump stations, detention ponds, canal/culvert improvements, and basin-wide hydrologic and hydraulic modeling, analysis and design.</p> <p><u>Grand Cheniere Ridge Marsh Creation Project (BA-0240) – Construction Administration and Inspection (CPRA), Plaquemines Parish, LA</u> <i>Sr. Project Manager</i> Mr. Lundgren managed a task order to provide CPRA with construction administration and inspection services under a CPRA IDIQ contract for General Engineering Services. In this role, Mr. Lundgren was responsible for managing the contract and for overseeing all bid process support, construction administration, construction inspection, and preparation of as-built drawings services. Additional responsibilities included oversight and management of on-site construction inspectors.</p> <p><u>Update to Coastal Management Master Plan, Plaquemines Parish, LA</u> <i>Project Manager</i> Responsible for compiling a Coastal Management Plan for Plaquemines Parish to evaluate and update the annual Parish plan based on current conditions, science, policy, technology, and practices. Responsible for coordinating stakeholder and owner input through public meetings and workgroup sessions; preparation of the Master Plan document; coordination with CPRA for approval and incorporation into the State's Coastal Master Plan.</p> <p><u>Fringe Marsh Repair / Jump Basin – Plaquemines Parish Coastal Zone Plaquemines Parish, LA</u> <i>Project Manager</i> Mr. Lundgren was Project Manager for the assessment, topographic surveying, preparation of design memorandum, permitting, engineering design, and construction management of dredging project consisting of repairs to 300 acres of wetland area seaward of the levee toe at eight (8) sites on the East and West Banks of Plaquemines Parish, which have been broken and fragmented adjacent to the levee base and threaten to weaken or undermine the levees. Restoration of the marsh was through the deposition of dredged material and re-establishment of emergent wetland vegetation. Work included permitting services for LDNR, LDEQ, and Corps of Engineers permits, including Section 10 and Section 404 permits. Additional work included land rights acquisition and coordination; borrow investigations and source recommendations, coordination of geotechnical crews and investigations, construction administration, and construction inspection. Total project cost was \$6,700,000.</p> |

TEC Professional Services Questionnaire

Pointe à la Hache Southeast of Beshel's Marina, Dredging and Marsh Creation, Pointe à la Hache, LA

Project Manager

Mr. Lundgren served as the lead design engineer for this Coastal Impact Assistance Program (CIAP) funded project to restore 17.06 acres of wetland area and increase hurricane protection and storm surge resiliency in Plaquemines Parish. He performed design that included oversight of topographic and bathymetric surveys, evaluation and design of recommended borrow areas, dredge, fill, and containment calculations, permitting, preliminary and final plans and specifications, access, mobilization, and sequencing plans, land rights investigations, utility conflict resolution, environmental considerations, and erosion control determinations and design. Designs involved the dredging of 10.98 acres of canal reaches adjacent to an active marina and associated design for the depositing of 33,970 cubic yards of dredged material within the identified project footprint, which included the creation of new embankments.

Calcasieu Ship Channel Salinity Control, Coastal Protection and Restoration Authority (CPRA), Cameron Parish, LA

Project Manager

Mr. Lundgren served as the Project Manager and lead design engineer under a task order for engineering services to design salinity control measures for the Calcasieu Ship Channel in Cameron Parish, LA. This project included the design of one (1) of fourteen (14) proposed salinity barriers to deter the introduction of high-salinity water from the Calcasieu Ship Channel to adjacent water bodies in the Chenier Plain. Design control measures included earthen, rock, sheet pile sills and walls, combination king pile (with concrete) and sheet pile designs and shoreline erosion protection features.

SLFPA-E IDIQ, Mitigation of Outfall Canal Erosion – London Avenue, Orleans Avenue, and 17th Street Canals, New Orleans, LA

Project Manager

Mr. Lundgren's responsibilities have included studies, alternatives analysis, permitting, design, and construction administration of a recommended mitigation project to address canal soil erosion in areas of the 17th Street Canal, Orleans Avenue Canal, and London Avenue Canal. A total of approximately 34,000 linear feet (6.4 miles) of canal erosion improvements are being made by armoring the canal banks with crushed stone placed inside of a confined cell geogrid material over geotextile fabric along the rebuilt canal earthen side slopes. This method of slope protection was determined to be the least intrusive, most effective, and most cost-efficient mitigation project after consideration was given to eight (8) alternate options in a design study.

SLFPA-W IDIQ, Flood Protection Engineering - Levee Lifts

Project Manager

Mr. Lundgren performed and oversaw preparation of plan/profile drawings, typical sections, cross-sections, utility and facility coordination, access and staging coordination, and both Coastal Use Permitting and NEPA permitting for construction of levee lifts prior to armoring on levee reaches totaling nearly seven (7) miles in length.

Task Force Guardian, Mississippi River Levees and New Orleans to Venice Emergency Levee and Major Breach Repairs, Plaquemines Parish, LA

Project Manager

As Project Manager, Mr. Lundgren assisted the USACE in repairing approximately 108 river miles of both Mississippi River and hurricane protection levees including scour repair, repair of several major breaches, and re-establishing protection at sections of failed floodwall at pumping stations, pipeline/utility crossings, navigation structures, and over 13 miles of levee enlargement and berms to replace floodwalls on the river levee, including relocation of a major State Highway with associated utility and drainage relocations. A total of 21 separate construction projects were issued under this contract, with a total construction cost in excess of \$122 million. Mr. Lundgren was directly responsible for site assessments, preparation of plans, specifications, bid quantities, real estate plat mapping and legal descriptions for right-of-way acquisitions, and construction administration.

St. Charles Parish East Bank Master Drainage Plan, St. Charles Parish, LA

Project Manager

Mr. Lundgren serves as Project Manager for this task-order driven project involving "as-needed" projects pertaining to drainage issues on the East Bank of St. Charles Parish. Since 2008, Evans-Graves Engineers has undertaken task orders involving: eight (8) separate design/construction projects involving stabilization of failed open canal banks; six (6) separate design/construction projects involving drainage control structures (pumps, gates and culverts); multiple joint Coastal Use Permits and Corps of Engineers permits for work in wetlands and coastal areas, including canal cleaning and maintenance; investigations, modeling, evaluations and analyses of neighborhood-scale flooding and drainage issues; and investigation and research into certifying parish-owned levees for FEMA accreditation as a result of FIRM Map revisions. Total construction cost to date is \$5,700,000.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Jack Carr Morgan, P.E., P.L.S., Deputy Chief Engineer

Project Assignment:

Project Engineer – H&H

Name of Firm with which associated:

EVANS-GRAVES ENGINEERS, INC.

Years' experience with this Firm: 23**Education: Degree(s)/Year/Specialization:**

BS / 1977 / Civil Engineering

Active Registration: Year first registered/discipline:

1999 / Professional Civil Engineer / LA License No. 28625

2021 / Professional Land Surveyor / LA License No. 5266

Other experience and qualifications relevant to the proposed Project:**Lafitte Tidal Flood Protection Program (Rosethorne, Goose Bayou, Lower Lafitte, Lower LA 45 Evacuation Route Basins), Lafitte Area Independent Levee District (LAILD), Jefferson Parish, LA**

Mr. Morgan is serving as either Project Manager or Project Engineer for the development of design and contract documents for the construction of a series of ring levees to protect populated areas along the east bank of Bayou Barataria in the Lafitte area of Jefferson Parish. The projects are defined by a fully connected ring levee consisting of concrete-capped steel sheet pile I-walls connecting into new or upgraded earthen levees. The four basins that EG has worked in consist of approximately 10 miles of bayou frontage capped sheetpile bulkhead with man-gates, vehicular gates, and utility crossings; and another 10 miles of earthen levee, protecting an area of nominally 2.8 square miles. The projects are being designed in conjunction with CPRA. The projects are being designed in conjunction with CPRA. Estimated construction cost: \$100M

St. Charles Parish East Bank Urban Flood Study (Trepagnier, Cross Bayou, Almedia Pump Stations), Multi City \ St. Charles Parish, LA

Evans-Graves and USACE jointly developed the Urban Flood Study, which included all interior drainage for the St. Charles Parish Hurricane Protection Levee (HPL). Mr. Morgan conducted the HEC2 and HEC-RAS analyses to size the original pump station, then included that work in the HEC-RAS and FLO2D Urban Flood Study that covered all of the East Bank of the Parish. This work was later included in the IPET model, and is the basis for the pump stations' benefit:cost analysis. The project includes a Feasibility Study to install as many as five new drainage pump stations in the east bank of the St. Charles Parish HPL to control local protected-side flooding. Mr. Morgan designed three of the stations for a total maximum capacity of 2.2 billion gallons per day. A 200- foot portion of the HPL was replaced with T-walls. The construction cost for two of the stations was \$28 million; the projected cost of the third station is \$20 million. Construction funding was from public and private sources.

Pointe à la Hache Southeast of Beshel's Marina, Dredging and Marsh Creation, Pointe à la Hache, LA

Mr. Morgan, as Project Engineer, assisted with the design of this Coastal Impact Assistance Program (CIAP) funded project to restore 17.06 acres of wetland area and increase hurricane protection and storm surge resiliency in Plaquemines Parish. He performed design that included evaluation and design of recommended borrow areas, dredge, fill, and containment calculations, and preliminary and final plans and specifications. Designs involved the dredging of 10.98 acres of canal reaches adjacent to an active marina and associated design for the depositing of 33,970 cubic yards of dredged material within the identified project footprint, which included the creation of new embankments.

Ormond Levee Certification, St. Charles Parish, LA

As the Project Manager and lead design engineer, Mr. Morgan performed a comprehensive drainage study, including H&H modeling, for improvements to approximately 20 acres of interconnected lakes forming a detention basin system as part of the Ormond Lakes Watershed. Additional duties include alternatives analysis, oversight of bathymetric survey, conceptual design for two (2) weir improvements, engineering and design for the excavation of approximately 200,000 cubic yards of material from the basin, development of preliminary and final plans and specifications, and construction administration. Total estimated construction cost: \$1M

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Keith M. Meyer, P.E., Structural Engineer

Project Assignment:

Project Engineer

Name of Firm with which associated:

EVANS-GRAVES ENGINEERS, INC.

Years' experience with this Firm: 20**Education: Degree(s)/Year/Specialization:**

BS / 1985 / Civil Engineering

Active Registration: Year first registered/discipline:

1992 / Professional Civil Engineer / LA License No. 24638

Other experience and qualifications relevant to the proposed Project:**Calcasieu Ship Channel Salinity Control, Coastal Protection and Restoration Authority (CPRA), Cameron Parish, LA*****Project Engineer***

Mr. Meyer was responsible for performing all structural design for the design for one of 14 proposed salinity barriers to deter the introduction of high-salinity water from the Calcasieu Ship Channel to adjacent water bodies in the Chenier Plain. Design control measures included earthen, rock, sheet pile sills and walls, combination king pile (with concrete) and sheet pile designs and shoreline erosion protection features.

Mitigation of Outfall Canal Erosion – London Avenue, Orleans Avenue, and 17th Street Canals, New Orleans, LA***Project Engineer***

Project Engineer for the design of canal soil erosion improvements for areas of the 17th Street, Orleans Avenue and London Avenue Canals. Approximately 30,000 linear feet (5.7 miles) of canal erosion improvements are being made using Geogrid Panel Slope Protection with crushed aggregates placed inside of the geogrid panel slopes. Responsibilities included the Geocell Anchoring Design considering Embankment Soil Conditions, Determination of Safety Factors using Geocell Anchor System, Shear Design of Anchoring, Stop Sleeve Spacing of Geocell Loads, Tendon Spacing, Geogrid Reinforcement and Soil Anchoring Design. Utilizing the land armoring for the erosion control solution is in the final design stages and is estimated to cost \$2.7 million.

Stolthaven Facility Flood Protection Project, Braithwaite, LA

Project Engineer responsible for the structural design of the \$20 million flood protection project for the \$600 million dollar Stolthaven Tank farm in Braithwaite, LA. The structural components consist of 4 – Flood gates and the adjacent T-wall sections and a retaining wall to allow an earthen berm tie-in to the Mississippi River Levee. The gates include three stop log flood gates, including a railroad crossing and one Swing Gate. The swing gate included a perpendicular 100-foot integrated T-wall to support the earthen levee tie-in to the MRL. This project was the first of two non-governmental earthen levee tie-ins to the Mississippi River Levee (MRL) under the current 408 permitting process.

St. Charles Parish Urban Flood Control Study – Cross Bayou Pump Station, St. Charles Parish, LA

Project Engineer responsible for the structural design of the entire 40-foot x 180-foot pump station facility substructure (foundation) and structural supports for the five - 160 million gallon per day (gpd) pumps and one - 35 million gpd pump station with 6 - 72" diameter discharge lines with 30 pile supported bents with capbeams, and the structural design of the inverted "I" floodwall stem and base slab in accordance with the US Army Corps of Engineers guidelines. Project cost: \$20 million.

St. Charles Parish Urban Flood Control Study – Walker/Almedia Pump Station, St. Charles Parish, LA

Project Engineer responsible for the structural design of the entire 40' x 180' facility substructure (foundation) and structural supports for the 6 - 250 cfs (pumps) pumping station, with 6 ~ 72" diameter discharge lines with 30 pile supported bents with capbeams, and the structural design of the inverted "T" floodwall stem and base slab in accordance with the US Army Corps of Engineers guidelines. This \$20 million Pontchartrain Levee District project is currently under review at the US Army Corps of Engineers.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Max O. Usrey III, P.E., P.L.S., Civil Engineer / Professional Land Surveyor

Project Assignment:

Project Engineer / Certified Levee Inspector / Utilities Coordinator

Name of Firm with which associated:

EVANS-GRAVES ENGINEERS, INC.

Years' experience with this Firm: 30**Education: Degree(s)/Year/Specialization:**

BS / 1979 / Civil Engineering

Active Registration: Year first registered/discipline:

1983 / Professional Civil Engineer / LA License No. 20762

1994 / Professional Land Surveyor / LA License No. 4737

Other experience and qualifications relevant to the proposed Project:

Mr. Usrey has 47 years of experience in the design and management of engineering plan production for drainage, levee, marsh restoration, and coastal projects. Mr. Usrey is also a licensed land surveyor and has considerable experience in the preparation of property surveys and right of way maps. Mr. Usrey completed post-graduate course work at the University of Wisconsin with a focus on Stormwater Management, Culvert Hydraulics, HEC-RAS unsteady flow, and Control Structure Design and HEC-RAS modeling of stream hydraulics.

Plaquemines Parish, LA Coastal Restoration Plan & Coastal Zone – Fringe Marsh Repair and Jump Basin Dredging and Marsh Creation***Surveyor***

Mr. Usrey performed surveying efforts associated with the Jump Basin Dredging and Marsh Creation Planning and Construction Grant project that required obtaining water surface elevations and depths in the Jump Basin Marina, as well as in the site receiving the dredged material. Mr. Usrey obtained accurate elevations using GPS to ensure successful marsh creation practices. Mr. Usrey also provided surveying, assessment, preparation of design memorandum, and engineering design of repairs and restoration to 300 acres of wetland area seaward of the Marsh Levee toe at eight sites on the East and West Banks of Plaquemines Parish. The sites were broken and fragmented adjacent to the levee base, which threatened to weaken or undermine the levees. Restoration of the marsh involved depositing dredged material into the Fringe Marsh area and re-establishing emerging wetland vegetation.

Task Force Guardian, Mississippi River Levees and New Orleans to Venice Emergency Levee and Major Breach Repairs, Plaquemines Parish, LA***Surveyor and Design Engineer***

Mr. Usrey provided survey and design assistance for multiple construction contracts to repair Mississippi River levees and Hurricane Protection levees and floodwalls. Mr. Usrey performed engineering inspection services during the construction process.

River Reintroduction into the Maurepas Swamp, St. James Parish, LA***Surveyor***

Mr. Usrey performed topographic surveys, right-of-way surveys, and roadway and bridge plans and specifications for the project. The project diverted 1,500 cfs of river water through a diversion structure in the Mississippi River levee, into a five-mile outflow channel, and into the Maurepas swamp. EG was a subconsultant.

PLD Levee Lifts Surveys, St. Charles Parish, LA***Surveyor***

Evans-Graves was selected to conduct field surveys of the St. Charles Parish Lake Pontchartrain Hurricane Protection Levee to provide Pontchartrain Levee District with the information to determine current conditions on the Levees. The surveys included cross sections of the levees including wave and stability berms to show full-width settlement and to allow for design of proposed lifts. The tops of levees were also surveyed at closer intervals to record precise top Movement. Mr. Usrey oversaw this work.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Gerald G. Menard, P.E., Principal

Project Assignment:

Principal-in-Charge

Name of Firm with which associated:

EVANS-GRAVES ENGINEERS, INC.

Years' experience with this Firm: 33**Education: Degree(s)/Year/Specialization:**

BS / 1978 / Civil Engineering

Active Registration: Year first registered/discipline:

1983 / Professional Civil Engineer / LA License No. 20437

Other experience and qualifications relevant to the proposed Project:**River Reintroduction into the Maurepas Swamp, St. James Parish, LA*****Project Manager***

Mr. Menard served as Project Manager for EG's portion of the work as a subconsultant on the Mississippi River Diversion into Maurepas Swamp project. EG was responsible for topographic and bathymetric surveys to be used in the project feasibility phase. After the feasibility phase, EG was responsible for topographic surveys required for construction plans. EG also performed several design and plan preparation tasks including installation of drainage structures under two railroad crossings and Airline Highway.

Comite River Diversion Channel, Bridge Crossings, East Baton Rouge Parish, LA***Project Manager***

Mr. Menard supervised design and preparation of construction plans for a portion of a 12-mile long diversion channel located between the Comite and Mississippi Rivers north of the town of Baker, LA and south of the town of Zachary, LA. This project provides flood control protection for the residents of the Comite River Basin. Specific project included a 300' wide, 40' deep trapezoidal channel. Also included are utility relocations, design of levees, and a bridge. Construction cost of the two bridges was \$12,000,000.

Bayou Barataria Bridge, Jean Lafitte Route LA 302, Jefferson Parish, LA***Project Manager***

Mr. Menard is Project Manager for the replacement of the existing low-level swing span bridge on LA 302 over Bayou Barataria at Jean Lafitte. This project consists for four phases. In the first phase, EG performed an Economic Benefit Study for the purpose of pursuing an alternative funding source (Truman Hobbs Funds) for the project. The second phase was performed concurrent with the first and consisted of the topographic survey, design and preparation of Preliminary Plans and preparation of right-of-way maps for the road and bridge (approach spans). The third phase consists of the final design and preparation of plans for road and bridge (approach spans). The fourth phase will be for construction related services.

LA-10 (West Approach to John James Audubon Mississippi River Bridge), Pointe Coupee Parish, LA***Project Engineer***

As part of a design-build team, EG was responsible for preparing final plans for two bridges and approximately six miles of rural roadway on a new alignment. Mr. Menard provided typical roadway sections including details for pavement structure (designed by LA DOTD) to comply with designated Roadway Classifications. Established roadway and intersection horizontal geometry and vertical profile including super elevation details. Performed QC checking of drainage design, including estimation of drainage areas, computation of peak runoff, and selection of most economical cross drains. Also performed QC checking for erosion control measures and related quantities.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Stephen Amato, P.E., P.M.P., Project Manager

Project Assignment:

Project Manager

Name of Firm with which associated:

EVANS-GRAVES ENGINEERS, INC.

Years' experience with this Firm: 14**Education: Degree(s)/Year/Specialization:**

MS / Engineering Management

BS / Civil Engineering

Active Registration: Year first registered/discipline:

2018 / Professional Civil Engineer / LA License No. 42946

2011 / Professional Civil Engineer / DC License No. 906505

Other experience and qualifications relevant to the proposed Project:

Mr. Amato's expertise is the management of flood risk reduction and resiliency projects. He has over 27 years of professional experience and is a certified Project Management Professional (PMP). Mr. Amato has served as Project Manager on coastal and flood protection projects for both the U.S. Army Corps of Engineers (USACE) and the Coastal Protection and Restoration Authority (CPRA).

Engineering Services for Coastal Restoration Projects, Coastal Protection and Restoration Authority (CPRA), Statewide,**LA*****Project Manager***

Under an IDIQ contract with CPRA where Evans-Graves is Prime, Mr. Amato provided extension-of-staff engineering services for CPRA under a task order based contract for professional engineering services. Mr. Amato managed the schedule, development, review, and finalization of Operations, Maintenance, Repair, Replacement, and Rehabilitation (OMRR&R) manuals with CPRA Operations Division engineers in coordination with USACE for the Greater New Orleans Hurricane and Storm Drainage Risk Reduction System (HSDRRS) projects. He also reviewed plans and specifications, as-built drawings, inspection punch-lists and reports, and other design, construction, and project documents. He provided regular status updates to CPRA Operations Division leadership about OMRR&R manual progress and HSDRRS issues. Work performed by Mr. Amato included oversight and management of DrChecks reviews for HSDRRS projects, PDD discussions with USACE, Line Item Reviews with USACE and regional levee districts, and review of BCOE backchecks for HSDRRS projects. Mr. Amato also assisted with construction site inspections and is a Certified Levee Inspector for the State of LA.

Grand Cheniere Ridge Marsh Creation Project (BA-0240) – Construction Administration and Inspection (CPRA),**Plaquemines Parish, LA*****Project Manager***

Mr. Amato developed and scheduled construction administration and construction inspection services for the Grand Cheniere Ridge Marsh Creation project under a task order to provide CPRA with construction administration and inspection services.

U.S. Army Corps of Engineers (USACE), Hurricane and Storm Damage Risk Reduction System (HSDRRS), New Orleans, LA***Project Manager***

Mr. Amato served as a Senior Project Manager providing Program and Project Management Support for the Greater New Orleans HSDRRS program. He was responsible for coordinating the planning, design, NEPA compliance, coordination with Non-Federal Sponsor, and construction of HSDRRS contracts. Mr. Amato also managed schedules for 17 HSDRRS contracts in Primavera and prepared three decision documents (Project Description Documents) gaining approval for 28 contracts worth over \$1 billion. He led weekly Project Delivery Team meetings and prepared numerous senior-executive briefings on project status. He developed the West Bank Hurricane Plan in coordination with USACE Operations and Construction Divisions and Southeast Louisiana Flood Protection Authority – West (SLFPA-W) and was selected to serve as a liaison for USACE located at SLFPA-W Emergency Operations Center for hurricane events.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Lee Z. Walker, Environmental Specialist

Project Assignment:

Environmental Specialist

Name of Firm with which associated:

EVANS-GRAVES ENGINEERS, INC.

Years' experience with this Firm: 19**Education: Degree(s)/Year/Specialization:**

MS / 2003 / Environmental Studies

BS / 1999 / Ecology, Evolution and Organismal Biology

Active Registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:**Louisiana International Terminal (LIT), Port of New Orleans, Violet, LA**

Ms. Walker serves as an Environmental Specialist for the Port's Program Management team and is responsible for the management and oversight of the Port's environmental compliance and permitting activities as part of the design and construction of the Louisiana International Terminal—a new \$1.5 billion container terminal located on the banks of the Mississippi River in Violet, Louisiana. Once constructed, the 350-acre container terminal development will be capable of handling 2 million TEUs annually.

Port Louisiana, Inc., Cameron Parish, LA

Ms. Walker developed supporting documents for USACE Section 404 and Section 10 permits and a Coastal Use Permit from the Louisiana Department of Natural Resources (DNR) for a proposed 500-acre port in Cameron Parish, LA. As part of the permitting process, Ms. Walker coordinated with resource agencies and permitting agencies to develop wetland mitigation plans that include the dredging and pumping of an estimated 4 million cubic yards of excavated material to beneficially re-create approximately 556 acres of marsh in the East Cove Unit of the Cameron Prairie NWR.

USACE Environmental and Regulatory Compliance, HSDRRS, Jefferson and Orleans Parishes, LA

Ms. Walker was responsible for managing the environmental compliance program for Hurricane and Storm Damage Risk Reduction System (HSDRRS) projects, serving on the Project Delivery Team (PDT) for the project. As the environmental representative on these PDTs, Ms. Walker provided technical input on the ways that environmental compliance and permitting could impact cost, schedule, design, and project execution. She was also responsible for the preparation of environmental reports such as NEPA documents (as per 40 CFR Part 1500), 404 (b)(1) evaluations, Endangered Species Act coordination letters, Notices of Intent for coverage under NPDES permits, applications for Water Quality Certifications, and Coastal Zone Management Plan consistency determinations.

Pontchartrain Levee District (PLD), Levee Lift National Environmental Policy Act (NEPA) Environmental Assessment for Section 408 Request, St. Charles Parish, LA

As Environmental Specialist, Ms. Walker managed and performed NEPA compliance efforts in support of the Section 408 process for the PLD levee lift program. Tasks included coordination with PLD and design engineers to procure technical information regarding the proposed action for incorporation into the NEPA document; Review of previous NEPA documentation relevant to the project area, including relevant Individual Environmental Reports; Coordination with USACE personnel regarding USACE compliance of any required National Historic Preservation Act / State Historic Preservation Office coordination; Development of Phase I Environmental Site Assessments for subject reaches (by subcontractor); Development of a single Environmental Assessment encompassing the proposed levee lifts.

Falgout Canal Floodgate, Dredging and Disposal, Terrebonne Levee and Conservation District, Theriot, LA

Ms. Walker was responsible for modifying an existing permit to secure permit approval for the dredging of 44,000 cubic yards of material from the Falgout Canal and using the dredged material to beneficially create a marsh platform in an adjacent open water area. The project was performed on an accelerated schedule as the need for the permit modification came in the middle of an active construction project as the result of a change order due to previously unknown geotechnical conditions.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

C. Miles Garriott, Environmental Specialist & Project Manager

Project Assignment:

Environmental Specialist / Project Manager

Name of Firm with which associated:

EVANS-GRAVES ENGINEERS, INC.

Years' experience with this Firm: 15**Education: Degree(s)/Year/Specialization:**

MBA / 2014 / Business Administration

BA / 2008 / Political Science

Active Registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:**Lafitte Tidal Flood Protection Program, Lafitte Area Independent Levee District (LAILD), Jefferson Parish, Louisiana*****Program Manager***

Mr. Garriott serves as the Program Manager for the \$250 million program to design and construct a series of connected ring levees across ten (10) separate basins across the Lafitte area to provide greater storm risk reduction infrastructure to a frequently hard-hit area of Jefferson Parish. Responsibilities include project schedule tracking, funding tracking, permitting oversight and tracking, agency meeting participation, bidding oversight, construction oversight, and agency coordination with the Lafitte Area Independent Levee District (LAILD), CPRA, and the U.S. Army Corps of Engineers.

Pontchartrain Levee District (PLD), Levee Lift National Environmental Policy Act (NEPA) Environmental Assessment for Section 408 Request, St. Charles Parish, LA***Environmental Specialist***

Mr. Garriott's responsibilities included the development of Environmental Assessment reports for the LPV 04.2a and LPV 04.2b levee reaches within the Greater New Orleans HSDRRS. Mr. Garriott also performed field investigations and species field surveys for colonial nesting birds and bald eagles to fulfill USFWS requirements.

HSDRRS Levee Lifts, SLFPA-E and SLFPA-W, Orleans and Jefferson Parishes, LA***Environmental Specialist***

Mr. Garriott's responsibilities included the development of Environmental Assessment reports for various levee lift projects on levee reaches within the Greater New Orleans HSDRRS, coordination of Coastal Use Permits with the LDNR Office of Coastal Management, coordination of jurisdictional wetlands determinations with the USACE, and coordination of environmental compliance documentation, including USFWS Threatened & Endangered (T&E) species coordination and USACE jurisdictional wetlands determinations for prospective borrow sources.

Ascension Parish School Board (APSB), Section 404 Requests, Ascension Parish, LA***Environmental Specialist***

Mr. Garriott's responsibilities included the coordination, oversight, and review of jurisdictional wetlands determinations and Cultural Phase I surveys for four (4) new Parish school buildings and associated facilities to be built by the Ascension Parish School Board (APSB) in Ascension Parish, Louisiana. Mr. Garriott's duties also included consultation with school and engineering and design staff on environmental concerns related to the selected school sites and the filing of Section 404 permit applications with USACE and associated USACE Regulatory Branch coordination.

Louisiana International Terminal (LIT), Port of New Orleans, Violet, LA

Mr. Garriott serves as an Environmental Specialist for the Port's Program Management team and is assisting with the Port's environmental compliance and permitting activities as part of the design and construction of the Louisiana International Terminal—a new \$1.8 billion container terminal located on the banks of the Mississippi River in Violet, Louisiana that will expand the Port's annual TEU capacity by 2 million TEUs. To date, Mr. Garriott's duties have included the development and management of Joint Permit Applications for geotechnical and clearing activities in identified forested wetlands.

TEC Professional Services Questionnaire

L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.

| PROJECT NO. 1 | | |
|---|--|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| Engineering Services for Coastal Restoration Projects Statewide, LA Coastal Protection & Restoration Authority (CPRA) 150 Terrace Avenue Baton Rouge, LA 70802 Mr. Jerry Carroll (225) 342-1346 | Engineering and related services for CPRA projects on an as needed task order basis. Specific engineering services for this contract consist of: Coastal Engineering, Hydraulics and Hydrology Engineering, Structural Engineering, Geotechnical Engineering, General Engineering, Surveying Services, Environmental & Permitting Services, Construction Administration & Inspection, and Program Management and Design for CPRA Projects. Evans-Graves was assigned two (2) task orders under this contract. (Please see attached additional pages for additional information). | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| August 2021 (A) | \$972 (in thousands) | \$972 (in thousands) |

| PROJECT NO. 2 | | |
|--|---|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| Lafitte Tidal Flood Protection Program Lafitte, LA Lafitte Area Independent Levee District (LAILD) 2654 Jean Lafitte Blvd. Lafitte, LA 70067 Mayor Tim Kerner (504) 233-1109 | Project Manager and lead design firm for two basins; design subconsultant for two basins. Services include the design and production of contract documents for the construction of a series of ring levees to protect populated areas along the East Bank of Bayou Barataria in the Lafitte area of Jefferson Parish. EG has been on the design team as either the lead or the primary civil engineer for four separate projects, each defined by a fully connected ring levee consisting of concrete-capped steel sheet pile I walls generally just inshore of the bank of Bayou Barataria, connecting into new or upgraded earthen levees that traverse through marshlands east of LA 45, the main highway along the Bayou. | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2026 (E) | \$65,000 (in thousands) (construction cost) | \$1,271 (in thousands) |

TEC Professional Services Questionnaire

| PROJECT NO. 3 | | |
|---|---|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility | |
| Southeast Louisiana Flood Protection Authority - East (SLFPA-E) IDIQ Jefferson and Orleans Parishes, LA Flood Protection Authority-East (SLFPA-E) 6920 Franklin Ave. New Orleans, LA 70122 Chris Humphreys, P.E. (504) 286-3100 | Engineering services under an IDIQ contract for flood protection projects on the East Bank of Jefferson and Orleans Parishes, LA. (Please see attached pages for a listing of task orders received to date). | |
| Completion Date (Actual or estimated) | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| Ongoing | \$42,000 (in thousands) (estimated construction cost) | \$TBD |

| PROJECT NO. 4 | | |
|--|--|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| Fringe Marsh Repair / Jump Basin Dredging & Marsh Creation / Update to Plaquemines Parish Coastal Plan Plaquemines Parish, LA Plaquemines Parish Government 333 F. Edward Hebert Blvd., Bldg 500 Belle Chasse, LA 70037 Ken Dugas (504) 934-6115 | Evans-Graves Engineers (EG) was procured through the Plaquemines Parish Government as an experienced engineering consulting firm with expertise in coastal management, planning, and code projects to update the Parish's Coastal Master Plan including the management and design of the Fringe Marsh Repair and Jump Basin Dredging and Marsh Creation projects. (Please see attached pages for additional information). | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2012 (A) | \$6,850 (in thousands) (construction cost) | \$6,850 (in thousands) |

TEC Professional Services Questionnaire

| PROJECT NO. 5 | | |
|---|--|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| Southeast Louisiana Flood Protection Authority - West (SLFPA-W) IDIQ Jefferson Parish, LA SLFPA-W 7001 River Road Marrero, LA 70072 Nicholas P. Cali, P.E. (504) 371-6900 | Under a 4 year, task order based contract from the Southeast Louisiana Flood Protection Authority – West, Evans-Graves Engineers, Inc. was contracted to provide project management, permitting, environmental assessment, engineering design and drafting, and resident inspection, construction administration for 3 task orders involving construction of levee lift projects prior to armoring, on levee reaches totaling nearly seven (7) miles in length, in Jefferson Parish, Louisiana. Work included preparation of plan/profile drawings, typical sections, cross-sections, utility and facility coordination, access and staging coordination, and both coastal use permitting and NEPA permitting for construction. Estimated construction cost is \$8,600,000.00. | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| October 2020 (A) | \$8,600 (in thousands) (construction cost) | \$400 (in thousands) |

| PROJECT NO. 6 | | |
|--|---|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| St. Charles Parish Urban Flood Control Study St. Charles Parish, LA Pontchartrain Levee District 2069 Railroad Avenue Lutcher, LA 70071 Ms. Monica Gorman (225) 869-9721 | Evans-Graves Engineers, Inc. (EG) worked with the US Army Corps of Engineers (USACE) and the Pontchartrain Levee District (PLD) on an urban flood study which included efforts to evaluate alternative improvement projects, some of which included adding pump stations in the Federal levee, adding additional pumping capacity in non-Federal levees, and improving associated channel work on the protected side of the completed St. Charles Parish Lake Pontchartrain Hurricane Protection Levee system (HPL). (Please see attached pages for additional information). | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| Ongoing | \$5,700 (in thousands) | \$5,700 (in thousands) |

TEC Professional Services Questionnaire

| PROJECT NO. 7 | | |
|---|---|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| <p>Greater New Orleans Hurricane and Storm Damage Risk Reduction System (HSDRRS)</p> <p>New Orleans, LA</p> <p>U.S. Army Corps of Engineers, New Orleans District 7400 Leake Avenue New Orleans, LA 70118 Michael Park (504) 862-2081</p> | <p>Evans-Graves Engineers, Inc. (EG) was retained to provide Planning, Program Management and Project Management onsite support. EG had approximately 200 onsite team members during the peak of activities. This onsite support includes managing the execution of project activities, developing a project controls system, conducting a flood risk assessment, developing design elevations for the hurricane protection system (hydraulic modeling), developing a hurricane surge atlas, conducting an armoring technical analysis, developing hurricane preparedness plans, leading environmental compliance activities, fielding a dashboard system and an emergency management system, supporting emergency response activities, conducting quality reviews, providing construction support, and preparing a program management plan and processes. The scope of work also included performing analyses and preparing documents for the Louisiana Coast Area Ecosystem Restoration project, the Louisiana Coastal Protection and Restoration study, CWPPRA, and the Mississippi River Gulf Outlet Project.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2018 (A) | \$14,800,000 (in thousands) (construction) | \$192,400 (in thousands) |

| PROJECT NO. 8 | | |
|---|---|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| <p>River Reintroduction into the Maurepas Swamp</p> <p>St. James Parish, LA</p> <p>Louisiana Department of Natural Resources P.O. Box 94396 Baton Rouge, LA 70804 Chris Williams (225) 342-7549</p> | <p>Evans-Graves Engineers, Inc. (EG), as sub-consultant to URS, was responsible for several design and plan preparation tasks including installation of drainage structures under two railroad crossings (CN & KCS) and Airline Highway. EG was also responsible for all topographical surveys (including topographic and bathymetric surveys), right-of-way surveys, roadway and bridge plans and specifications including a temporary detour road.</p> <p>The project's main structural features included two 10 x 10 foot box culverts capable of diverting 2,000 cfs; a 100 x 100 foot receiving pond reinforced with a 20-inch layer of riprap; and a 50-foot wide, 10-foot deep outflow channel about 27,500 feet long that will run from the river to Interstate 10.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2012 (A) | \$150,000 (in thousands) | \$150,000 (in thousands) |

TEC Professional Services Questionnaire

| PROJECT NO. 9 | | |
|--|---|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| General Engineering Services for CPRA Projects | <p>Evans-Graves (EG) was retained under an IDIQ for as-needed general engineering services to advance the CPRA's mission by providing professional engineering services in support of CPRA projects.</p> <p>To date, EG has received one (1) task order for construction administration and inspection services for the Grande Cheniere Ridge Marsh Creation Project (BA-0240)---a NRDA-funded project that will benefit approximately 500 acres of marshland in Plaquemines Parish. Task involves bid process support, construction administration and inspection, as-built review, and associated services.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2024 (E) | \$2,000 (in thousands) (NTE - Engineering Fee) | \$1,650 (in thousands) |

| PROJECT NO. 10 | | |
|---|--|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| <p>Task Force Guardian, Mississippi River Levees and New Orleans to Venice Emergency Levee and Major Breach Repairs</p> <p>Plaquemines Parish, LA</p> <p>USACE, New Orleans District 7400 Leake Avenue New Orleans, LA 70118 Jean Vossen 504-862-2404</p> | <p>Evans-Graves Engineers, Inc. (EG) was retained to provided Civil, Hydraulic, and Coastal Engineering and Design (E&D) services for site investigation and assessment, surveying and mapping, preparation of plans, specifications, schedules, and detailed quantity estimates for both MRL and New Orleans to Venice (NOV) levees.</p> <p>(Please see attached pages for additional information).</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2007 | \$122,000 (in thousands) | \$122,000 (in thousands) |

TEC Professional Services Questionnaire

M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.

| Parties: | | Status/Result of Case: |
|------------|------------|------------------------|
| Plaintiff: | Defendant: | |
| 1. N/A | N/A | N/A |
| 2. | | |
| 3. | | |
| 4. | | |

N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed project.

Please see attached.

O. To the best of my knowledge, the foregoing is an accurate statement of facts.

Signature: *Ashlyn Graves* Print Name: Ashlyn A. Graves
 Title: President Date: July 16, 2024

PROJECT NO. 1 (CONTINUED)

Nature of Firm's Responsibility

Task Order #1: HSDRRS Engineering Services

Engineering Services (Extension of Staff) for the review of operations and maintenance manuals, as-builts, repair plans, inspection reports and punch lists as well as other construction and design documents for the Greater New Orleans Hurricane and Storm Drainage Risk Reduction System (HSDRRS).

Task Order #2: Calcasieu Ship Channel Salinity Control

Evans-Graves was tasked by CPRA to design a salinity control structure within the Calcasieu Ship Channel in Cameron Parish, LA. The project was located in the Chenier Plain, which includes Calcasieu Lake, West Cove, the Calcasieu Ship Channel/Calcasieu River, the Sabine-Neches Waterway, and the Gulf Intracoastal Waterway. EG was responsible for performing the design and preparation of bidding documents for construction of the East Pass salinity barrier to deter the introduction of high-salinity water from the Calcasieu Ship Channel to adjacent water bodies in an effort to reduce the rate of wetlands loss in the 630,000 acre Calcasieu-Sabine Basin. This project was put on an indefinite hold on 10/14/2020 due to uncertainty about CPRA modeling test results, fisheries impacts, salinity benefits, target water level maintenance, and questions regarding drainage and sediment impacts. Total project fee was \$757,000. Evans-Graves performed approximately 57% of the fee amount before the project was put on hold.

PROJECT NO. 3 (CONTINUED)

Nature of Firm's Responsibility

Task Order #1 - Mitigation of Outfall Canal Erosion:

This project seeks to construct erosion mitigation and control methods via placement and compaction of imported fill material overlain with an anchored geogrid material with crushed stone aggregate on identified eroded sections of the referenced earthen outfall canals between interior pumping stations and the new outfall pumping stations on Lake Pontchartrain. The work will encompass approximately 34,100 linear feet of canal in total, in three outfall canals in the east bank of Orleans Parish. The desired result of this project is to stabilize the existing canal banks and prevent continued erosion which could weaken and undermine the base and foundation of the existing flood protection structures on either side of the canals. An added benefit of the stabilized canal banks is to eliminate nutria and animal burrowing and prevent sloughing of material into the canals, thereby provide a more hydraulically-efficient and effective channel for drainage flow. This project involved a feasibility study phase in which alternative structural erosion control measures such as Concrete slope paving, flumes, or sheet piling were analyzed; but these were deemed cost-prohibitive, as well as impractical due to issues with having to dewater canals for concrete pouring and possible conflicts with existing flood protection substructures for new pile driving. Project also included permitting through Sewerage and Water Board of New Orleans, Corps of Engineers, and DNR, as well as engineering design and preparation of plans and specs for construction bidding. Estimated construction cost is \$3.5 million.

Task Order #2 - SLFPA-E Levee Lift Program:

This program consists of the raising of the East Jefferson and Orleans Parish Hurricane Storm Damage Risk Reduction System earthen levees which the United States Army Corps of Engineers (USACE) is preparing to armor. By raising the levees prior to the armoring SLFPA-E will gain 5 to 10 years of additional service from the USACE armoring program. In order to maximize the life of the armoring SLFPA-E has contracted Evans Graves Engineers Inc. to evaluate which of the levee reaches should be raised, design budgets and schedules for the levee raising, construct a pool of qualified design firms, and manage the design and construction of the approximately twenty five miles of earthen levee. The

estimated cost of the levee lift program is \$38.5 million and will take about 24 months to complete. The design will consist of extensive levee survey, geotechnical analysis, and civil design.

Task Order #3 – Develop RFP for permitting software:

The RFP is for the design of permitting software. The software will need to allow for SLFPA-E and its subordinate levee districts to seamlessly track and grant permits to interested parties for construction activities, events, and land usage. The dollars for the project are coming from a CDBG.

Task Order #4 – HSDRRS Gate Closures tracking system:

EG performed the work necessary to update the HSDRRS Gate Closures Tracking System program for purposes of demonstration.

PROJECT NO. 4 (CONTINUED)

Nature of Firm's Responsibility

Fringe Marsh Repair

Evans-Graves Engineers, Inc. (EG) was procured through the Plaquemines Parish Government and accepted by the Bureau of Ocean Energy Management, Regulation and Enforcement (BOEMRE) to be the engineer-of-record. The Fringe Marsh project was funded through BOEMRE utilizing the Coastal Impact Assistance Program (CIAP). This project restored approximately 300 acres of wetland area along the Plaquemines Parish Fringe Marsh seaward of the Plaquemines Levee back levee toe by dredging from borrow areas and disposing materials into the designated marsh areas. Construction cost was \$6 million.

Jump Basin Dredging and Marsh Creation

The Jump Basin harbor project required maintenance dredging to remove an accumulation of sediments so that the harbor could fully support the OCS vessel activity that takes place in the harbor. Nearby marsh was deteriorating due to a lack of newly deposited sediments. Plaquemines Parish developed a project and obtained CIAP funding to dredge the Jump Basin sediments and to use the sediments to help restore the deteriorating marsh, while in-turn providing tidal flood protection to Tidewater Road and protection of the vital back levees from accumulated damage due to storm surge. Construction cost was \$850 thousand.

Update to Plaquemines Parish Coastal Plan

EG reviewed and edited the Plaquemines Parish Coastal Plan of 2000 to ensure it is in accordance with the State's Plan, which is based on the Louisiana State and Local Resources Act of 1978 (Act 361), as amended.

EG evaluated the effectiveness of the plan as well as the effective practices of Coastal Management to ensure compliance with laws, regulations, and procedures relative to federal, state, and parish objectives in the execution of CIAP, holding public meetings for community involvement, proposing an update to the plan, and coordinating the parish's adoption of the updated Plaquemines Parish Coastal Management Plan. The updated plan will continue ongoing projects and identify activities for conservation, restoration, and stabilization of wetlands and other coastal areas in the Parish.

Services performed by EG during these individual projects includes project planning (surveying, mapping of topographic and bathymetric terrain for eight (8) project sites for design and estimating purposes, and geotechnical investigation for design); engineering (development of plans and specifications, cost estimates, mapping and design of project sites and borrow area, dredge, fill and containment requirements analysis; access, mobilization, and sequencing investigations); and land rights

and permitting (application and obtaining of all necessary permits from federal, state, and local entities; land rights investigations, determinations/identifications, and mapping of ownership of affected landowners/leaseholders).

PROJECT NO. 6 (CONTINUED)

Nature of Firm's Responsibility

The Study area is bound by the Mississippi River Levee, the HPL, the lower spillway guide levee, and the St. Charles/Jefferson Parish line. The study defines and evaluates possible mitigation alternatives such as drainage canal improvements, removal of canal obstructions, enlarging earthen channels, increasing existing pump station capacities, and new pump stations. EG developed the Existing Conditions Model, which then was used by USACE to develop strategies. EG provided Civil and Hydraulic engineering services and topographic surveys. EG also determined existing inventory of and extent of potential damage to industrial, commercial, and residential structures.

EG performed surveying and provided Civil and Hydraulic engineering services for the Bayou Trepagnier Pump Station, Almedia/Walker Pump Station, and the Cross Bayou Pump Station. EG developed the existing conditions hydraulic model of the East Bank using HEC-RAS, HEC-HMS, GEO-RAS, and FLO2D models, which was submitted to the USACE for development of the mitigation alternatives. EG also determined existing inventory of and extent of potential damage to industrial, commercial, and residential structures.

Bayou Trepagnier Pump Station: 800 cfs pump station designed and constructed in less than eighteen months. Geotechnical components of the cofferdam and foundation were critical due to the close proximity of the station to the Lake Pontchartrain HPL and the Bonnet Carré Spillway East Guide Levee.

Almedia/Walker Pump Station: 1350 cfs pump station that will serve the far eastern portion of the St. Charles Parish East Bank. The pump station was designed using HSDRRS design criteria and involved Section 408 permitting.

Cross Bayou Pump Station: 1350 cfs pump station designed to control protected-side flooding and to assist in preserving U.S. 61 (Airline Hwy.) as a major hurricane evacuation route by pumping rainfall out of a 12,000-acre drainage basin. Construction was completed in 2011. EG was retained by PLD to design the new pump station, prepare the plans and specifications, assist in the advertising and bidding activities, provide construction engineering and inspection, and prepare the Operations and Maintenance Procedures Manual and training including protocol for drawdown depth limitations, gate closures, and pump sequencing. This station was designed and constructed in full adherence with USACE HSDRRS design criteria.

PROJECT NO. 10 (CONTINUED)

Nature of Firm's Responsibility

The repair/rehabilitation of the levees incorporated the various design data, investigations, and information provided by the Government, and E&D support during advertisement and construction. The contract involved assisting the USACE in repairing approximately 108 river miles of both MRL and NOV hurricane protection levees including scour repair, repair of several major breaches, and re-establishing protection at sections of failed floodwall at pumping stations, pipeline/utility crossings, and navigation structures. In addition, the contract involved over 13 miles of levee enlargement and berms to replace floodwalls on the MRL, including relocation of a major State Highway with associated utility

and drainage relocations. A total of twenty-one (21) separate sets of plans and specifications were issued under this contract. The E&D work also consisted of right-of-way mapping, tract ownership research and real estate mapping, coordination of geotechnical investigations, preparation of Design Quality Control Plans and Independent Technical Review reports, and assisting the USACE in construction support with weekly construction site visits and reports, review of construction submittals, preparation of contract modifications, and responses to requests for information. Construction cost was \$122,000,000.

N. Use this space to provide any additional information or description of resources supporting your firm's qualifications for the proposed project:

EVANS-GRAVES ENGINEERS, INC.

In accordance with the Parish of Jefferson's Request for Qualifications, Evans-Graves Engineers, Inc. (EG) understands that the Parish is seeking firms interested in providing coastal engineering consulting services on an as-needed basis for projects located throughout Jefferson Parish. (Resolution No. 144205)

In response to the Jefferson Parish notification, Evans-Graves Engineers, Inc. hereby offers our statement of qualifications as well as our specific responses to the general selection criteria.

GENERAL

Evans-Graves Engineers, Inc. (EG) was founded in Baton Rouge, Louisiana in 1954. The firm was organized to provide professional engineering services in the fields of Civil and Structural Engineering.

The company has a staff of over 28 people located in the New Orleans and Baton Rouge offices, including eight (8) licensed Professional Engineers, two (2) licensed Professional Land Surveyors, two (2) Engineer Interns, and a corresponding support staff. Today, EG has expanded its services by providing surveying, civil, structural, and traffic engineering, project management, and construction management. Personal service is the organization's keynote. Every project receives the benefit of the firm's experience and engineering knowledge provided by the principals of the firm and the firm's key personnel, all of whom are residents of the New Orleans and Baton Rouge areas.

The projects profiled throughout this TEC Professional Services Questionnaire demonstrate that EG has been involved with a wide variety of civil and structural engineering endeavors throughout its 70 year existence.

A closer look will reveal significant experience on coastal projects that have included civil, hydraulic, and hydrologic engineering, environmental support including environmental assessments and permitting assistance, as well as mapping, and CAD support. Evans-Graves has provided these services to both public and private sector clients, including individuals, developers, and local municipalities such as Jefferson Parish, the Town of Jean Lafitte, the City of New Orleans, Plaquemines Parish, St. Charles Parish, the Southeast Louisiana Flood Protection Authority – East (SLFPA-E), the Southeast Louisiana Flood Protection Authority – West (SLFPA-W), the Pontchartrain Levee District (PLD), the Coastal Protection and Restoration Authority (CPRA), and the U.S. Army Corps of Engineers (USACE).

PROJECT TEAM

Evans-Graves Engineers' expertise is primarily in the areas of civil and structural engineering design services and land surveying services. As the prime consultant for this work, Evans-Graves will perform all civil, hydraulic, hydrologic, planning, permitting, design, bidding, and construction administration for

any task orders assigned by the Parish. **Mr. P. Stephen Lundgren Jr., P.E.** will be project manager and point of contact for Evans-Graves Engineers, Inc. and is located in the BankPlus Building in downtown New Orleans, which is within 15 minutes of the Jefferson Parish Government building. Mr. Lundgren has worked on and managed projects for the Parish and is familiar with design standards and criteria. Mr. Lundgren also has experience on projects funded by FEMA as well as those funded by various federal grant programs such as CDBG.

To fulfill any supplemental services that might be needed under this work, Evans-Graves has partnered with the following subconsultants:

Geotechnical Engineering / Surveying



Fugro USA Land, Inc.

Fugro is the world's leading independent provider of vital earth and engineering data, information, and advice required for the design, construction, and maintenance of large land and marine infrastructure, industrial installations, and buildings.

Fugro has provided subsurface explorations in support of Louisiana flood protection and coastal projects since 1946. Fugro has earned the reputation for consistently delivering high quality projects on-time and within budget. Since Hurricane Katrina, the firm has expanded its experience during the development, planning and execution of flood protection projects and coastal protection projects for local, state, and federal partners. Fugro's history with the Louisiana Department of Natural Resources and CPRA has spanned over a period of 25 years and has given the firm an advantage in acquiring the specialized experience needed to get publicly funded and governed work done right. The firm has provided geotechnical and survey services as a prime contractor to the Louisiana Department of Energy and Natural Resources (LDENR) and the Coastal Protection and Restoration Authority (CPRA) and has also provided these services as a subcontractor through various engineering firms, including Evans-Graves Engineers. Our staff has successfully performed over 80 separate task orders under these contracts. Fugro gives considerable thought to each task order on how to safely, effectively, and efficiently proceed with the project work.

Fugro previously worked as a subconsultant to Evans-Graves Engineers on the Calcasieu Salinity Control project for CPRA. For this work, Fugro performed geotechnical investigation and analysis of laboratory data for the development of the geotechnical report as well as magnetometer and bathymetric survey of the channel bottom to identify hidden infrastructure.

SELECTION EVALUATION FACTOR RESPONSES

- 1. Professional training and experience in relation to coastal engineering.**

N. Use this space to provide any additional information or description of resources supporting your firm's qualifications for the proposed project:

Evans-Graves Engineers, Inc. is a locally owned and operated consulting engineering firm with a staff of over twenty-eight (28) people in Baton Rouge and New Orleans. Evans-Graves is led by Ms. Ashlyn A. Graves. Ms. Graves has over 25 years of hands-on experience in the management and oversight of the firm's businesses lines. All surveying, engineering, and project management personnel, which consists of eight (8) professional engineers, two (2) licensed Professional Land Surveyors, two (2) Engineer Interns, and a corresponding support staff, will report directly to Mr. Lundgren—the designated PM for this work.

Following is a brief summary of experience of the key personnel to be involved in this project. Complete resumes of these personnel along with other design and support personnel can be found in Section K.

PERSONNEL EXPERIENCE

Mr. Gerald G. Menard, P.E. – Principal-in-Charge

Principal who is a registered professional engineer in the State of Louisiana.

Mr. Menard serves as Principal of the firm and has over 45 years of experience as a licensed engineer in the State of Louisiana. Mr. Menard has managed and overseen some of the most complex and important engineering projects in our firm's history, including the first two Design/Build projects ever completed by LADOTD.

Mr. P. Stephen Lundgren Jr., P.E. – Sr. Project Manager

Professional in charge of the project who is a licensed, registered professional engineer in the State of Louisiana with a minimum of five (5) years' experience.

Mr. P. Stephen Lundgren Jr., P.E. will be the Senior Project Manager for this work, handling the day to day activities of any tasks assigned by the Parish. Mr. Lundgren has experience in the design and management of various coastal engineering projects with a focus on design and implementation of civil engineering projects for CPRA, SLFPA-E, SLFPA-W, USACE, FEMA, New Orleans Sewerage & Water Board, LADOTD, and the Parishes of Jefferson, Plaquemines, Orleans, St. Tammany, St. Bernard, and St. Charles, just to name a few. He has extensive experience working closely with local governments, having developed **permits, engineering reports, master plans, and construction plans and specifications** for projects including hurricane repair projects, roadway and utility projects, pump stations, detention ponds, canal/culvert improvements, and basin-wide hydrologic and hydraulic modeling, analysis and design. **Mr. Lundgren was Project Manager for EG's task to update the Plaquemines Parish Coastal Management Master Plan, which was subsequently approved by CPRA.** During this process, he coordinated **stakeholder and owner input** through **public meetings, educational support, and outreach.** Mr. Lundgren also served as Project Manager and lead design engineer and construction administrator for the **Fringe Marsh**

Repair/Jump Basin Projects for the repair and restoration of 300 acres of wetlands in Plaquemines Parish. The **marsh restoration** was through deposition of dredged material. These projects consisted of **beneficial use of dredged material, technical and field investigations, public outreach, and assistance with grant writing** (more information on these projects can be found in Section L). Mr. Lundgren has a Masters in Civil Engineering from Tulane University. **Mr. Lundgren is a lifelong resident of Jefferson Parish. He has been a registered P.E. in the state of LA for the past 25 years and holds a Masters degree in Civil Engineering from Tulane University. Mr. Lundgren will be the Project Manager on any work from Jefferson Parish.**

Mr. Jack Carr Morgan, P.E., P.L.S. – Project Engineer – H&H

Professional engineer registered in the State of Louisiana in the applicable discipline involved.

Mr. Morgan has over 51 years of experience as a civil engineer, surveyor, and general contractor. Mr. Morgan's background includes management, design, layout, and construction of projects involving **coastal engineering and flood management, water and sewerage infrastructure, stormwater management, civil structures, hydrologic and hydraulic modeling, channel improvements, site development, construction and construction surveying, airport runways, roadways, bridges, municipal and industrial wastewater facilities, land development, and land surveying.** **Mr. Morgan has completed numerous HEC2, HEC-RAS, FLO2D, and SWMM models for various water resource and flood control projects and is especially prepared to perform any hydrologic and hydraulic modeling required by the Parish under this work.** Mr. Morgan served as Project Manager and lead designer on three frontline hurricane protection pump stations (Bayou Trepagnier, Cross Bayou, and Almedia/Walker) on the USACE Lake Pontchartrain Hurricane Protection Levee in St. Charles Parish. He managed EG's work on Morganza to the Gulf, Pointe-Aux-Chenes Floodgate & Levee design and is currently managing EG's work on the Lafitte Tidal Levees and Ormond Levee Certification. Mr. Morgan has a degree in Civil Engineering from the University of Texas.

Mr. Stephen Amato, P.E., P.M.P. – Project Manager

Professional engineer registered in the State of Louisiana in the applicable discipline involved.

Mr. Amato's expertise is in the management of flood risk reduction and resiliency projects. He has over 25 years of professional experience and is a certified **Project Management Professional (PMP)**. Mr. Amato has served as Project Manager on **coastal and flood protection** projects for both the **U.S. Army Corps of Engineers (USACE)** and the **Coastal Protection and Restoration Authority (CPRA)**. Mr. Amato previously served as an embedded Project Manager within CPRA for the review of **operations and maintenance manuals, as-builts, repair plans, inspection reports and punch lists, as well as other construction and design documents** for the **Greater New Orleans Hurricane and Storm Damage Risk Reduction System (HSDRRS)**. Mr. Amato holds a Bachelor's Degree in

N. Use this space to provide any additional information or description of resources supporting your firm's qualifications for the proposed project:

Civil Engineering and a Master's Degree in Engineering Management.

Mr. Keith Meyer, P.E. – Project Engineer

Professional engineer registered in the State of Louisiana in the applicable discipline involved.

Mr. Meyer has over 47 years of experience ranging from civil engineering design to project management and quality control. His work has involved performing analysis and design of new and/or improved **drainage systems**, project manager for the **repair and replacement of existing pump stations**, and the **replacement of drainage pump stations** to meet current FEMA and State guidelines. Mr. Meyer's expertise also includes the preparation of **feasibility studies, design analysis and reports, plans and specifications, and project cost estimating**. Mr. Meyer served as a Project Engineer on EG's **Calcasieu Salinity Control** project for the CPRA. In this capacity, Mr. Meyer performed a preliminary outline for the **Design Document Report** and preliminary **structural calculations** for the project. Mr. Meyer has a degree in Civil Engineering from Tulane University.

Mr. Max O. Usrey, III, P.E., P.L.S. – Project Engineer / Certified Levee Inspector / Utilities Coordinator

Professional engineer registered in the State of Louisiana in the applicable discipline involved.

Mr. Usrey has 47 years of experience in the design and management of engineering plan production for **levee, marsh and ridge restoration, drainage, and coastal projects**. Mr. Usrey is also a **licensed land surveyor** and has considerable experience in the preparation of **property surveys and right of way maps**. Mr. Usrey completed post-graduate course work at the University of Wisconsin with a focus on **Stormwater Management, Culvert Hydraulics, HEC-RAS unsteady flow, and Control Structure Design and HEC-RAS modeling of stream hydraulics**. Mr. Usrey has a degree in Civil Engineering from LSU.

Ms. Lee Z. Walker – Environmental Specialist

Ms. Walker has managed EG's environmental planning and permitting efforts for over 19 years. During her work on EG's **U.S. Army Corps of Engineers HSDRRS Program** Management contract, Ms. Walker served as an **embedded contractor** for nearly 7 years, working side-by-side with **USACE environmental and regulatory staff** in the New Orleans District Headquarters, as well as with **other regulatory agencies** that served on an **Interagency Team** for the HSDRRS projects; these agencies included the **Coastal Protection and Restoration Authority (CPRA), Louisiana Department of Environmental Quality (LDEQ), US Fish and Wildlife Service (USFWS), Louisiana Department of Natural Resources (LDNR), National Marine Fisheries Service, and Louisiana Department of Wildlife and Fisheries**. During these activities, Ms. Walker gained recognition and respect from agency staff and leadership that has proven incredibly effective

in the pursuit of permits for non-Federal clients. Ms. Walker recently obtained permit approval for the Port Louisiana project—a 500 acre port planned for Cameron Parish, Louisiana that will involve the **dredging and pumping of an estimated 4 million cubic yards of excavated material to beneficially re-create approximately 556 acres of marsh in the East Cove Unit of the Cameron Prairie NWR**. Ms. Walker will serve as Environmental Specialist for any Jefferson Parish tasks assigned under this contract and will lead all **biological and environmental assessment** activities that may be required, in addition to the handling of all required **permitting** activities.

2. Size of firm

The Evans-Graves Staff currently consists of over 28 people located in offices in New Orleans and Baton Rouge. For the past fifteen years the staff level has remained constant with eight to fifteen professional registered engineers and land surveyors. **We exceed the minimum manpower requirements listed in the RFQ, we have the manpower available to immediately begin work, and our firm size is well suited to complete any tasks assigned by Jefferson Parish. All Evans-Graves personnel are residents and tax payers of the State of Louisiana.**

3. Capacity for timely completion of newly assigned work.

Evans-Graves Engineers currently has one (1) active project with Jefferson Parish, which is expected to be 100% complete within a month's time. Considering our staff of over twenty-eight (28) people, which includes eight (8) licensed engineers, EG has more than enough capacity to perform this work in accordance with Jefferson Parish's schedule. The company's overall workload is low with several larger projects having recently been completed.

All of the personnel mentioned in this proposal will be available as needed to work on this project and to complete each task in accordance with the timeframe proposed by Jefferson Parish. All of the work will be managed by Mr. Lundgren and coordinated from our New Orleans Office, which is within 15 minutes of the Jefferson Parish Government building.

Evans-Graves maintains **two (2) full time survey crews** and all the necessary equipment to outfit these crews. These crews have at their disposal the latest in electronic surveying equipment including electronic data collectors and laptop computers for downloading data in real time directly from the field. EG also maintains compatible software to download directly from data collectors into our design computers for translation into working data files.

4. Past performance by person or firm on projects of or similar comparable size, scope, and scale.

This particular category can only be addressed by our clients; however, if timely and successful completion of numerous projects in a responsive and comfortable working relationship is

N. Use this space to provide any additional information or description of resources supporting your firm's qualifications for the proposed project:

key, then we feel our performance has been more than satisfactory. **Projects completed by EG have experienced few problems during construction. Over the past 70 years, we have developed a solid reputation among our clients and feel that Jefferson Parish has shared that view. We have consistently provided quality work and maintained a professional working relationship with Jefferson Parish.**

Evans-Graves has provided engineering services to both public and private sector clients, including individuals, developers, and local municipalities such as Jefferson Parish DPW, City of New Orleans, City/Parish of East Baton Rouge, City of Slidell, DOTD, and the U.S. Army Corps of Engineers.

Over the past seven decades, Evans-Graves has established a solid reputation among our public and private sector clients for successfully completing our projects on schedule, within budget, and with minimal revisions during construction. **This is evidenced by repeatedly being selected for work by various public agencies throughout the State. All of our projects have been completed to the satisfaction of our clients and no claims or disputes have ever been levied against Evans-Graves by any of our clients.**

The quality of work generated by Evans-Graves Engineers, Inc. can be demonstrated by our ACASS performance evaluations from the USACE. Based on evaluations EG has received since 1995, these ratings are excellent or above average and none were unsatisfactory. In addition, all of the evaluations recommended Evans-Graves for future contracts. **We feel these ratings from the USACE, coupled with the fact that we continue to be selected for work from repeat clients, is a true testament to the value of our work and our work ethic.** We would be happy to provide you with a copy of these ratings should that be necessary.

5. Location of the principal office where work will be performed

Evans-Graves will manage and perform all Jefferson Parish work entirely out of our New Orleans office. Our Project Manager, Mr. P. Stephen Lundgren Jr., P.E., is located in this office and has worked closely with Jefferson Parish on many projects. Mr. Lundgren is quite familiar with the policies and personnel of the Parish. The company's entire history consists of working in the Louisiana area. All of the company's personnel reside in and pay taxes in the State of Louisiana.

6. Adversarial legal proceedings between the Parish and the person or firm performing professional services

Evans-Graves Engineers, Inc. has had no litigation matters with Jefferson Parish or any other public entity. In addition, during our 70 year existence, Evans-Graves has never been judged at fault in any litigation arising out of our work product. At Evans-Graves, we consider our record of integrity

and professionalism as our major accomplishments, both past and present.

7. Prior successful completion of projects of the type and nature of the engineering services, as defined, for which firm has provided verifiable references.

Evans-Graves has successfully completed studies and design work under task order based contracts for the Lafitte Area Independent Levee District (LAILD), the Coastal Protection and Restoration Authority (CPRA), the U.S. Army Corps of Engineers (USACE), the Louisiana Department of Energy and Natural Resources (LDENR), the Southeast Louisiana Flood Protection Authority-East and West (SLFPA-E/SLFPA-W), the Pontchartrain Levee District (PLD), St. Charles Parish, Plaquemines Parish, and many others. This prior experience provides the EG Team with the knowledge and experience necessary to meet the schedules that Jefferson Parish has set for this work. We further attribute our ability to meet these requirements to our extensive working knowledge of levee and flood wall protection, shoreline and coastal protection, wetland restoration, and environmental services.

EG has worked for private developments in Jefferson Parish and has prepared plans and specifications for the U.S. Army Corps of Engineers for projects constructed in Jefferson Parish. **Given the fact that EG only has one (1) active project with Jefferson Parish that is almost 100% complete and the Parish's desire to provide maximum opportunity for different firms to work in the Parish, we feel we would be a perfect fit for this work.** EG has a long history of successfully completing coastal restoration and protection projects and we would like to share this knowledge and experience with Jefferson Parish.

Evans-Graves Engineers takes pride in meeting the needs of the firm's clients and in delivering services that exceed our clients' expectations.

Below is a list of references from related projects that are ongoing or have recently been completed by Evans-Graves. Please feel free to reach out to these individuals, as the firm is confident in the work that we provided for their respective organizations.

Mayor Tim Kerner Jr.

Board President
Lafitte Area Independent Levee District (LAILD)
2654 Jean Lafitte Boulevard
Lafitte, LA 70067
(504) 689-8808
timkerner@townofjeanlafitte.com

Design and contract documents for the construction of a series of ring levees to protect against tidal flooding in populated areas along the East Bank of Bayou Barataria in the Lafitte area of Jefferson Parish.

N. Use this space to provide any additional information or description of resources supporting your firm's qualifications for the proposed project:

Monica Gorman

Executive Director
Pontchartrain Levee District (PLD)
P.O. Box 426
Lutcher, LA 70071
(225)869-9721

mgorman@leveedistrict.org

Evans-Graves' and USACE's joint development of the St. Charles Urban Flood Protection Study, and EG's design of three primary hurricane protection pump stations along the Lake Pontchartrain Hurricane Protection Levee in St. Charles Parish.

Chris Humphreys, P.E.

Director of Engineering
Southeast Louisiana Flood Protection Authority - East
6920 Franklin Ave.
New Orleans, LA 70122
(504) 283-1855

chumphreys@floodauthority.org

Permitting, civil engineering design, and construction administration, including permitting and design of canal bank stabilization and erosion control for three interior drainage canals in Jefferson and Orleans Parishes, and program management for the design and construction of levee lift projects prior to armoring, on Lake Pontchartrain and Vicinity Hurricane Protection Levee reaches in Orleans, Jefferson, and St. Bernard Parishes.

Nicholas P. Cali, P.E.

Regional Director
Southeast Louisiana Flood Protection Authority-West
7001 River Road
Marrero, LA 70072
(504)371-6900

NCali@slfpaw.org

Under a two-year, task order based contract, project management, permitting, environmental assessment and engineering design and drafting for three task orders involving construction of levee lift projects prior to armoring, on Lake Pontchartrain Hurricane Protection Levee reaches totaling nearly seven miles in length, in Jefferson Parish.

SUMMARY

As part of this submittal, Evans-Graves Engineers, Inc. commits and guarantees the following:

- We have sufficient manpower resources for the timely accomplishment of our designated tasks for coastal engineering services in Jefferson Parish.
- Our staff proposed for this project has recent experience relevant to this type of work.
- All EG staff proposed in this submittal are current employees of Evans-Graves Engineers, Inc.
- Upon award of any work from Jefferson Parish, all listed personnel will be made available for the project assignment(s), as required.

- Our entire staff are residents and taxpayers of the State of Louisiana.

Evans-Graves Engineers, Inc. has successfully executed a wide range of engineering projects for our clients. Our professional staff has the technical capability and experience to provide Jefferson Parish with a quality product within the allotted time period. The personnel to adequately staff this project are available and the company resources will be committed to this work. Evans-Graves desires to maintain a close working relationship with Jefferson Parish and we look forward to working with you on potential projects.

Evans-Graves Engineers, Inc. welcomes the opportunity to provide Jefferson Parish with our services and would like to thank Jefferson Parish for your consideration of our qualifications.

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Statement of Qualifications for Coastal Engineering Consulting Services as needed parish wide, SOQ 24-020 (Resolution No. 144205)

B. Firm Name & Address:

Fugro USA Land, Inc.
4233 Rhoda Drive
Baton Rouge, LA 70816

C. Name, title and contact information of Principal, as defined in Section 2-926 of the Jefferson Parish Code of Ordinances, who is a registered, licensed architect, professional engineer, or surveyor in the State of Louisiana:

Eric Marx, PE
Vice President/Principal
(225) 800-5400
emarx@fugro.com

D. Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline.

Eric Marx, PE
Vice President/Principal
(225) 800-5400
emarx@fugro.com

E. Please provide the number of employees whose primary function corresponds with each category:

| | | |
|--------------------------------------|----------------------------------|------------------------------------|
| <u>3</u> Administrative | <u> </u> Estimators | <u> </u> Specification Writers |
| <u> </u> Architects (Licensed) | <u>1</u> Geologists | <u> </u> Structural Engineers |
| <u> </u> Chemical Engineers | <u>4</u> Geotechnical Engineers | <u>2</u> Graduate Engineers |
| <u>4</u> Civil Engineers | <u> </u> Interior Designers | <u>1</u> Project Managers |
| <u>6</u> Construction Inspectors | <u> </u> Landscape Architects | <u> </u> Clerical |
| <u> </u> Ecologists | <u> </u> Land Surveyor | <u> </u> Grant/Funding Specialist |
| <u> </u> Electrical Engineers | <u> </u> Mechanical Engineers | <u> </u> Sanitary Engineers |
| <u> </u> Engineer Intern | <u>1</u> Environmental Engineers | |
| <u>3</u> Professional Land Surveyors | | <u>21</u> TOTAL |

F. Is this submittal by a JOINT-VENTURE? Please check: YES NO

If marked "No" skip to Section I. If marked "yes" complete Sections G-H.

TEC Professional Services Questionnaire

G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.

1.
N/A

2.
N/A

H. Has this JOINT-VENTURE previously worked together? Please check:
 YES NO

I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.

| Name & Address: | Specialty: | Worked with Firm Before (Yes or No): |
|-----------------|------------|--------------------------------------|
| 1. N/A | | |
| 2. | | |
| 3. | | |

J. Please specify the total number of support personnel that may assist in the completion of this Project:

_____ 8

TEC Professional Services Questionnaire

K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e. resume) that demonstrates the employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Eric Marx, PE
Vice President/Principal

Project Assignment:

Geotechnical Investigation

Name of Firm with which associated:

Fugro USA Land, Inc.

Years' experience with this Firm:

23

Education: Degree(s)/Year/Specialization:

MS, 2001, Civil Engineering
BS, 1999, Civil Engineering

Active registration: Year first registered/discipline:

2004, Civil Engineering, Louisiana, PE0031479

Other experience and qualifications relevant to the proposed Project:

Since joining Fugro in 2001, Mr. Marx has developed experience in supervising all phases of geotechnical investigations for a varied list of projects across the Gulf Coast region including marsh creation, flood protection structures, bridges, pipelines, tunnels, structures, and shoreline protection.

2007-2017, Indefinite Delivery Indefinite Quantity Contract for Soil Borings, Soil Testing and Geotechnical Design Support Services within the Limits of New Orleans District, New Orleans, LA - Mr. Marx served as Project Engineer for the Jefferson Lakefront Levee Enlargement, MRGO Closure Structure and facilitated the completion of geotechnical field and laboratory task orders in the amount of approximately \$150M over the 10-year program.

2017-2019, Geotechnical Services for Coastal Protection and Restoration Authority Projects, 2503-16-27 - Mr. Marx is the Principal-in-Charge for this program which has three task orders for marsh creation projects in Louisiana. As PIC, Mr. Marx works with CPRA to develop budgets, oversee project execution, provide client updates, and guide engineering deliverables.

TEC Professional Services Questionnaire

| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: |
|---|
| Name & Title: |
| Sam Bryant, PhD, PE Senior Consultant |
| Project Assignment: |
| Sam Bryant, PhD, PE Senior Consultant |
| Name of Firm with which associated: |
| Fugro USA Land, Inc. |
| Years' experience with this Firm: |
| 39 |
| Education: Degree(s)/Year/Specialization: |
| PhD, 1983, Civil Engineering MS, 1979, Civil Engineering BS, 1978, Civil Engineering |
| Active registration: Year first registered/discipline: |
| 2016, Civil Engineering, Louisiana, PE0040695 |
| Other experience and qualifications relevant to the proposed Project: |
| <p>Dr. Bryant supervises all phases of geotechnical investigations including field exploratory programs, laboratory testing programs, engineering analyses and evaluations, and report preparation. His experience includes foundations in rock, soft soils, and highly expansive soils for multi-story structures, dams, embankments, tunnels, below ground excavations and structures, pipelines, and bridges. He has extensive experience in materials testing, pavement design, and remediation of existing structures.</p> <p>PO-0060-Permanent Canal Closures and Pumps, Orleans and Jefferson Parish, LA. Dr. Bryant provided technical oversight and performed geotechnical design calculations for floodwalls, deep excavations, pump stations, gate structures, generator buildings, earthen embankments.</p> <p>BA-153 & BS-030, Mid-Barataria and Mid-Breton Sediment Diversion Oversight Review Team, Plaquemines Parish, LA. Dr. Bryant is performing geotechnical design review for the sediment diversion projects. Reviews include geotechnical field programs, design criteria and engineering for deep foundations, slope stability, settlement, and seepage.</p> <p>TE-0138, Bayou De Cade Marsh Creation and Ridge Restoration, Terrebonne Parish, LA. Dr. Bryant oversaw the field operations which included soil borings and Cone Penetration Test soundings on air-boat mounted equipment and conducted geotechnical engineering analyses including slope stability for marsh ridges and settlement calculations for marsh platforms.</p> |

TEC Professional Services Questionnaire

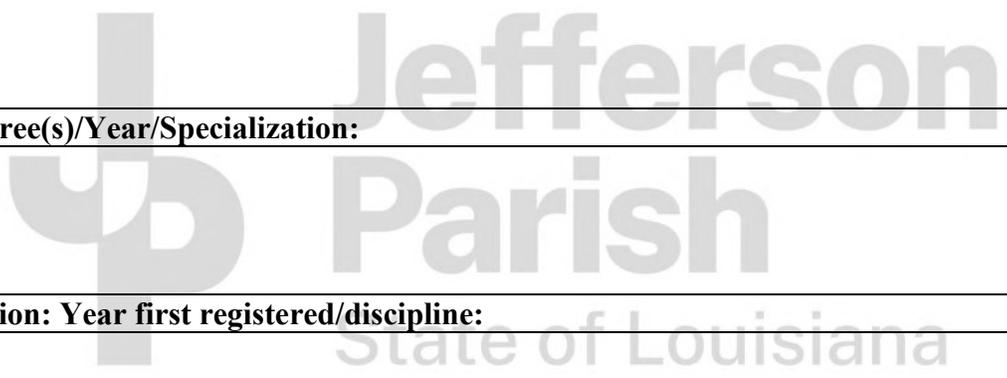
| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: |
|---|
| Name & Title: |
| Greg Spiller, PE, MBA Operations & Quality Manager |
| Project Assignment: |
| Topographic & Bathymetric Survey |
| Name of Firm with which associated: |
| Fugro USA Land, Inc. |
| Years' experience with this Firm: |
| 12 |
| Education: Degree(s)/Year/Specialization: |
| MBA, 2018, Business Administration BS, 2016, Industrial Engineering |
| Active registration: Year first registered/discipline: |
| 2021, Industrial Engineering, Louisiana, PE0045834 |
| Other experience and qualifications relevant to the proposed Project: |
| <p>Mr. Spiller manages a wide variety of projects including aerial, topographic, hazard, bathymetric, geophysical, and boundary surveys. CPRA Elevation Survey Update of Coastwide Reference Monitoring Systems (CRMS), Plaquemines, Orleans, and St. Bernard Parish, LA. Mr. Spiller served as project manager in the collection of all field data, processing, analysis, and deliverables. Project specifically requires large GPS control network adjustments, ensuring accurate elevation surveys. Mr. Spiller also performed the field collection on a previous iteration of the CRMS Survey.</p> <p>PO-0179 CPRA St. Catherine Island Marsh Creation and Shoreline Protection. Mr. Spiller assisted in the collection of bathymetry, magnetometer, and topographic data. He managed the project including deliverables and reporting.</p> <p>PO-178 CPRA Bayou La Loutre Ridge and Marsh Creation Project. Mr. Spiller served as project manager in the collection of all field data, processing, analysis, and deliverables. The objective of this project is to restore/create a ridge feature along Bayou La Loutre and to create, maintain, and nourish existing deteriorating marsh.</p> |

TEC Professional Services Questionnaire

| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: |
|---|
| Name & Title: David Cormier, PLS Professional Land Surveyor |
| Project Assignment: Topographic & Bathymetric Survey |
| Name of Firm with which associated: Fugro USA Land, Inc. |
| Years' experience with this Firm: 8 |
| Education: Degree(s)/Year/Specialization: AS, 1984, Civil Engineering Technology |
| Active registration: Year first registered/discipline: 1994, Professional Land Surveyor, Louisiana, PLS0004715 |
| Other experience and qualifications relevant to the proposed Project: Mr. Cormier manages complex database and GIS projects, coordinates field crews, and prepares permit plats. BS-0038 CPRA Mid-Breton Land Bridge Marsh Creation and Terracing, LA. Mr. Cormier provided technical oversight over survey methods used. This survey required the integration of several elevation and geophysical datasets to ensure the site was properly characterized prior to completing the final planning and design templates. BA-0197 CPRA West Grand Terre Beach Nourishment and Stabilization. Mr. Cormier has provided survey oversight and certification. BA-0048 CPRA Bayou Dupont Marsh and Ridge Creation, Jefferson Parish, LA. Mr. Cormier had managed field personnel and all equipment used. Also provided professional oversight for the topographic survey. PO-0179 CPRA St. Catherine Island Marsh Creation and Shoreline Protection. Mr. Cormier certified the survey report and drawings required for this project and provided professional oversight. |

TEC Professional Services Questionnaire

| |
|--|
| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: |
| Name & Title: |
| Intentionally Left Blank |
| Project Assignment: |
| |
| Name of Firm with which associated: |
| |
| Years' experience with this Firm: |
| |
| Education: Degree(s)/Year/Specialization: |
| |
| Active registration: Year first registered/discipline: |
| |
| Other experience and qualifications relevant to the proposed Project: |
| |



TEC Professional Services Questionnaire

L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.

PROJECT NO. 1

| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
|---|---|--|
| Increase Atchafalaya Flow into Terrebonne Parish Avoca Island, LA CPRA c/o Moffat & Nichol Maarten Kluijver, Project Engineer 225.336.2075 mkluijver@moffitnichol.com | Fugro performed topographic, bathymetric, and magnetometer surveys along with geotechnical investigations to assess critical subsurface considerations for the project. | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| November 2024 | \$4.6M | \$1M Geotechnical Engineering, Survey |

PROJECT NO. 2

| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
|---|---|--|
| Bucktown Living Shoreline Project Jefferson Parish, LA Jefferson Parish c/o Moffat & Nichol Mindy Joiner, Project Manager 504.862.1033 | Responsibilities included review of existing geotechnical data and file for coastal use permit for field activities to include soil borings and CPTs using amphibious equipment. Exploration covered potential borrow areas and shoreline protection and marsh creation areas. Laboratory testing included soil indices and characterization, strength and density profiles. Engineering analyses and reporting for settlement, slope stability, bearing capacity, and general geotechnical design recommendations for marsh fill area and shoreline protection features. Additionally, Fugro provided topographic, hydrograic, and geophysical survey services in support of the project. | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| November 2024 | \$1.7M | \$140k Geotechnical Engineering, Survey and Geophysical |

TEC Professional Services Questionnaire

| PROJECT NO. 3 | | |
|---|---|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility | |
| Geotechnical Investigation and Design East Pass Salinity Barrier Cameron Parish, LA CPRA c/o Evans-Graves Engineers, Inc. Stephen Lundgren, PE, Project Manager 504.836.8190 Slundgren@evans-graves.com | In deeper water, a rock berm with a combination ("combi") wall using alternating pipe piles and steel sheet piles will be used. A 60-ft-wide sill will be located in the center of the barrier to allow for fish passage. The top elevation (EI) of the barrier will be set at EI +5 ft. The bottom of the sill will be set at EI -8 ft. Sill dolphins consisting of 18-inch diameter steel pipe piles will be located adjacent to the sill. 30% design level completed to date, including sheetpile wall evaluations, slope stability/settlement of rock embankments, and pile capacity (axial and lateral). | |
| Completion Date (Actual or estimated) | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| June 2023 | \$260.4M | \$74k Geotechnical Engineering |

| PROJECT NO. 4 | | |
|--|--|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| St. Catherine Shoreline Protection Orleans Parish, LA CPRA Jessica Diez, Project Manager 225.342.1952 Jessica.Diez@la.gov | Fugro provided geotechnical site exploration and laboratory testing, nearshore (marsh) drilling, nearshore survey, onshore and nearshore geophysical engineering, and geotechnical engineering analysis. | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| July 2021 | \$35.9M | \$304k Geotechnical Engineering, Survey |

TEC Professional Services Questionnaire

| PROJECT NO. 5 | | |
|--|--|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| Oyster Lake Marsh Creation Cameron Parish, LA CPRA Dustin White, Project Manager 225.342.1952 Dustin.White@la.gov | Fugro provided geotechnical site exploration and laboratory testing, nearshore (marsh) drilling, nearshore survey, onshore and nearshore geophysical engineering, and geotechnical engineering analysis. | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| January 2020 | \$38M | \$329k Geotechnical Engineering, Survey |

| PROJECT NO. 6 | | |
|---|--|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| Mid Barataria/Mid Breton Owner's Review Team (ORT) Plaquemines Parish, LA Moffatt & Nichol Chris Williams, Project Manager 225.336.2075 | Reviews have been performed on geotechnical data plans, slope stability, pile capacity, and consolidation. | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| June 2025 | \$2B | \$100k Geotechnical Engineering Review |

TEC Professional Services Questionnaire

| PROJECT NO. 7 | | |
|---|--|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| Upper Barataria Marsh Creation Plaquemines Parish, LA NOAA c/o Moffatt & Nichol Chris Williams, Project Manager 504.862.1033 | Fugro's scope includes geotechnical field exploration, laboratory testing, engineering evaluations, and reporting. | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| October 2020 | \$151M | \$935k Geotechnical Engineering, Survey |

| PROJECT NO. 8 | | |
|---|--|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| Bayou de Cade Marsh Creation Terrebonne Parish, LA CPRA Travis Byland, PE, Project Manager 225.342.6750 Travis.Byland@la.gov | Fugro provided geotechnical site exploration and laboratory testing, nearshore (marsh) drilling, nearshore survey, onshore and nearshore geophysical engineering, and geotechnical engineering analysis. | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| October 2018 | \$27.2M | \$325k Geotechnical Engineering, Survey |

TEC Professional Services Questionnaire

| PROJECT NO. 9 | | |
|--|---|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| Permanent Canal Closures and Pumps (PCCP) Orleans and Jefferson Parish, LA USACE NOLA District c/o Stantec Consulting Services Jay Mazzoni, Project Manager 502.212.5007 Jay.Mazzonu@stantec.com | Fugro was the Geotechnical-Engineer-of-Record. Fugro performed geotechnical investigations, geotechnical design calculations and deep foundation testing oversight in support of the design of the project. | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| April 2018 | \$730M | \$4M Geotechnical Engineering |

| PROJECT NO. 10 | | |
|---|--|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| Alabama Connecting Waters Baldwin County, AL NOAA c/o Moffatt & Nichol Don Blancher, PhD, BCES, Project Manager 251.378.9009 Dblancher@moffattnichol.com | Fugro is providing Geotechnical support of the design and development of this project. | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| September 2023 | \$750k | \$84k Geotechnical Engineering |

TEC Professional Services Questionnaire

M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.

| Parties: | | Status/Result of Case: |
|------------|------------|------------------------|
| Plaintiff: | Defendant: | |
| 1. N/A | | |
| 2. | | |
| 3. | | |
| 4. | | |

N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed project.

Fugro has provided subsurface explorations in support of Louisiana flood protection and coastal projects since 1946. Fugro has earned the reputation for consistently delivering high quality projects on-time and within budget. Since Hurricane Katrina, we have expanded our experience during the development, planning and execution of flood protection projects and coastal protection projects for local, state, and federal partners. Our staff has successfully performed over 80 separate task orders under these contracts. Fugro gives considerable thought to each task order on how to safely, effectively, and efficiently proceed with the project work. The graphic above high- lights the wide variety of recent project locations where Fugro has successfully executed flood protection and coastal projects.

O. To the best of my knowledge, the foregoing is an accurate statement of facts.

Signature: Eric Marx Print Name: Eric Marx, PE

Title: Vice President Date: July 16, 2024