

# STATEMENT OF QUALIFICATIONS

## Coastal Engineering Consulting Services

### Resolution No. 144205

Presented To:



**NY ASSOCIATES, INC.**  
ENGINEERS • ARCHITECTS • PLANNERS  
PROGRAM & PROJECT MANAGERS

July 16, 2024

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*(Subconsultant: Topographic, Hydrographic and Bathymetric Surveying)*

- TEC Professional Services Questionnaire

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*(Subconsultant: Geotechnical Engineering)*

- TEC Professional Services Questionnaire

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*(Subconsultant: Biological and Environmental Assessment of Wetlands, Analysis and Permitting)*

- TEC Professional Services Questionnaire

# **1. N-Y TEAM INTRODUCTION**

## **Cover Letter and Project Organization Chart**



Reply to Metairie Office

July 16, 2024

MICHAEL F. NICOLADIS  
CONSTANTINE F. NICOLADIS, P.E.  
JAMES E. SIMMONS, P.E.  
MICHAEL G. BUISSON, JR., ARCHITECT, AIA  
BRUCE J. RICHARDS, AICP, PTP  
KRISTIN H. PEARCE, CPA, MBA

PRESIDENT  
SENIOR VICE PRESIDENT  
VICE PRESIDENT  
VICE PRESIDENT  
VICE PRESIDENT  
VICE PRESIDENT

FRANK NICOLADIS, P.E. CHAIRMAN, FOUNDER

ESTABLISHED 1969

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

**Re: Coastal Engineering Consulting Services on an As-Needed Basis  
Resolution No. 144205**

Ladies and Gentlemen:

N-Y Associates, Inc. (N-Y), is pleased to submit our Statement of Qualifications to provide Coastal Engineering Consulting services on an as-needed basis for miscellaneous projects located throughout Jefferson Parish.

➤ **Background and Experience:**

Although N-Y Associates, Inc. is sometimes mistaken for “New York”, N-Y is actually a fifty-five (55) year-old family owned, multi-discipline firm founded and headquartered in Jefferson Parish. Offering extensive local experience, N-Y has been providing engineering, architecture, planning and project management services to federal, state, regional, parish and city agencies throughout southern Louisiana since 1969. Our staff includes civil, hydraulic and structural engineers; project managers; environmental and urban planners; construction inspectors and support personnel.

N-Y has worked extensively throughout Jefferson Parish since its inception. Our public agency clients include the Parish, the Regional Levee Boards, the Jefferson Parish School Board, the City of Kenner, LADOTD, and the Regional Planning Commission. N-Y also offers extensive local experience in the planning and design of coastal and flood protection projects, including interior stormwater drainage, hydraulics and hydrology and NEPA evaluations.

- N-Y has been the Prime A/E for seventeen (17) engineering indefinite delivery contracts for multiple agencies, including the U.S. Army Corps of Engineers New Orleans District (6 IDIQs); Vicksburg District (2 IDIQs); and Fort Worth District (3 IDIQs).
- N-Y has also worked closely with the USACE, New Orleans District providing design, bidding, EDC and QAR (resident inspection) services for several, large Southeast Louisiana Flood Control (SELA) projects for local sponsors.

➤ **Team:**

James Simmons, PE will serve as Project Manager. Mr. Simmons’ forty-seven (47) years of experience includes extensive work on coastal and flood protection projects including feasibility studies and design of levees, floodwalls, drainage pumping stations, canals and canal stabilization, navigable gates and water control structures in environmentally sensitive coastal areas. Mr. Simmons has completed NHI Course No. 142005 “National Environmental Policy Act (NEPA) and Transportation Decision Making.”

Bruce Richards, AICP, PTP, CTP will serve as Deputy Project Manager leading the Environmental and Planning Tasks. Mr. Richards has thirty-six (36) years of experience including the preparation of Stage 1 Environmental Assessments, Environmental Impact Statements, and Stage 0 Feasibility Studies. Components of these projects have included Environmental Site Assessments (ESAs), Risk Assessments,

**Wetlands Evaluation and Delineation, and Regulatory/Permits Research in compliance with NEPA. Mr. Richards has been in responsible charge of the preparation of NEPA documents by N-Y since 1999 and has completed more than twenty (20) feasibility studies, EA's or EIS's. He has completed both NHI Course No. 142005, "National Environmental Policy Act (NEPA) and Transportation Decision Making" and the course on Section 106 of the National Preservation Act Offered by the Advisory Council on Historic Preservation in 2002.**

➤ ***Subconsultants:***

**To supplement our in-house staff, we will utilize the following subconsultant firms, each of which have extensive experience working with N-Y and in Jefferson Parish. All team members have successfully worked on similar types of projects and are familiar with local geographic conditions.**

- **Chustz Surveying, Inc. will provide all required topographic, hydrographic and bathymetric surveying services.** Since their inception in 1995, Chustz has been involved in an array of coastal and flood protection projects for the Coastal Protection and Restoration Authority, Corps of Engineers, Louisiana Department of Natural Resources, Louisiana Department of Transportation and private engineering firms.
- **Eustis Engineering Services, LLC will provide any required onshore and nearshore geotechnical engineering services.** Eustis has provided innovative solutions to clients in Southeast Louisiana for more than 75 years. Eustis is currently working on several major coastal engineering projects for CPRA and various Parishes including sediment diversions, marsh creations, ecosystem restorations, marsh and ridge restorations, shoreline restorations and sediment delivery systems. Eustis has successfully worked with N-Y on almost all of N-Y's recent coastal and flood protection projects.
- **ELOS Environmental, LLC will provide assistance with environmental and permitting services, including biological and environmental assessments of wetlands.** An expert in regulatory affairs related to environmental permitting and compliance, ELOS environmental professionals provide data-supported analysis to federal, state and local agencies in order to secure environmental clearances, permits and authorizations in the most efficient way possible to keep projects moving forward.

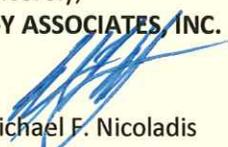
**The N-Y Team Organizational Chart is provided following this cover letter.**

➤ ***Conclusion:***

Should we be selected, **Frank Nicoladis, PE** and I will ensure that the resources of N-Y and our subconsultants are adequately and efficiently utilized to provide you with excellent service, that your project's schedule and budget are met, and that N-Y's quality control plan is properly implemented.

**The N-Y Team** offers a proven combination of specialized local experience, technical competence, capacity, and record of past performance throughout coastal Louisiana and Jefferson Parish that will provide the best possible value for these projects. We look forward to a favorable review of our qualifications.

Sincerely,  
**N-Y ASSOCIATES, INC.**

  
Michael F. Nicoladis  
President

# N-Y TEAM ORGANIZATIONAL CHART



Coastal Engineering  
Consulting Services  
Resolution No. 144205

**PRINCIPALS / PROJECT OVERSIGHT**  
N-Y Associates, Inc.  
Frank Nicoladis, PE  
Michael F. Nicoladis, EI, MBA

**PROJECT MANAGEMENT**  
N-Y Associates, Inc.  
James Simmons, PE – Project Manager \*  
Bruce Richards, AICP, PTP, CTP – Deputy Project Manager \*

**STRUCTURAL ENGINEERING**  
N-Y Associates, Inc.  
James Simmons, PE  
Robert Yokum, PE  
Steven Fall, PE  
Neil Logan, PE

**CIVIL & HYDRAULIC ENGINEERING**  
N-Y Associates, Inc.  
Constantine Nicoladis, PE  
Fred Mortali, PE  
William Haensel, PE  
Patricia Claverie, EI, MS  
Dennis G. Voss, NICET

**ENVIRONMENTAL AND PERMITTING (NEPA)**  
N-Y Associates, Inc.  
Bruce Richards, AICP, PTP, CTP \*  
-----  
ELOS Environmental, LLC  
Lucas Watkins, MS \*  
Brian Fortson, BS  
Basile Dardar, BS  
Hunter Perrilloux, BS  
Michael G. Bellone, MS  
Karim Belhadjali, MS

**GEOTECHNICAL ENGINEERING**  
Eustis Engineering, LLC  
Gwendolyn Sanders, PE  
James Hance, PE  
Sean Walsh, PE  
James Williams, PE  
Henry C. Worley, PE

**QUALITY ASSURANCE REPRESENTATIVES**  
N-Y Associates, Inc.  
Stanley Mitchell, QAR  
Johnny Thompson, QAR

**SURVEYING (TOPOGRAPHIC / HYDROGRAPHIC)**  
Chustz Surveying, LLC  
Jimmy Chustz, PLS  
Julian A. Chustz, PLS  
Mark Huber, CH, QA/QC  
Robbie Benoit, BGS  
Craig Villemarette

\* Completed the NHI Course No. 142005, "National Environmental Policy Act (NEPA) and the Transportation Decision Making Process"



**2. N-Y ASSOCIATES, INC.**  
*(Prime Consultant)*

**TEC Professional Services Questionnaire**

# TEC PROFESSIONAL SERVICES QUESTIONNAIRE



**A. Project Name and Advertisement Resolution Number:**  
 Coastal Engineering Consulting Services  
 Resolution No. 138902

**B. Firm Name & Address:**  
 N-Y Associates, Inc.  
 2750 Lake Villa Drive  
 Metairie, LA 70002

**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**

Frank Nicoladis, PE TEL No.: (504) 885-0500 FAX No.: (504) 885-0595 <a href="mailto:fnicoladis@n-yassociates.com">fnicoladis@n-yassociates.com</a>	Constantine F. Nicoladis, PE TEL No.: (504) 885-0500 FAX No.: (504) 885-0595 <a href="mailto:cnicoladis@n-yassociates.com">cnicoladis@n-yassociates.com</a>
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**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.**

James Simmons, PE, Vice President  
 TEL No.: (504) 885-0500  
 FAX No.: (504) 885-0595  
[jimmmons@n-yassociates.com](mailto:jimmmons@n-yassociates.com)

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

<b>3</b>	Administrative	*	Estimators	**	Specification Writers
<b>4</b>	Architects (Licensed)	--	Geologists	<b>4</b>	Structural Engineers
--	Chemical Engineers	--	Geotechnical Engineers	--	Graduate Engineers
<b>5</b>	Civil Engineers	--	Interior Designers	--	Project Managers
<b>3</b>	Construction Inspectors	--	Landscape Architects	--	Clerical
--	Ecologists	--	Land Surveyor	--	Grant/Funding Specialist
--	Electrical Engineers	--	Mechanical Engineers	***	Sanitary Engineers
<b>2</b>	Engineer Intern (Civil)	--	Environmental Engineers	****	Transportation Engineers
--	Professional Land Surveyors	<b>1</b>	Planners Urban/Regional	<b>2</b>	CAD Operators
				<b>1</b>	Eng. Technicians (Civil)
				<b>24</b>	<b>TOTAL</b>

\* *N-Y senior technical personnel prepare estimates.*  
 \*\* *N-Y senior technical personnel write specifications.*  
 \*\*\* *N-Y Sanitary Engineers are included in Civil Engineers.*  
 \*\*\*\* *N-Y Transportation Engineers are included in Civil and Structural Engineers*

**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.

G.	<p>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.</p> <p>N/A</p>		
H.	<p>Has this JOINT-VENTURE previously worked together? Please check:</p> <p>YES <input type="checkbox"/> NO <input type="checkbox"/> N/A</p>		
I.	<p>List all subcontractors anticipated for this Project. Please note that <u>all subcontractors must submit a fully completed copy of this questionnaire</u>, 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.</p>		
	<p align="center"><b>Name and Address:</b></p>	<p align="center"><b>Specialty:</b></p>	<p align="center"><b>Worked with Firm Before (Yes or No):</b></p>
1.	<p>Chustz Surveying, LLC 3349 Ridgelake Drive Metairie, LA 70002</p>	<p>Topographic, Hydrographic and Bathymetric Surveying</p>	<p align="center">Yes</p>
2.	<p>Eustis Engineering Services, LLC 3011 28<sup>th</sup> Street Metairie, LA 70002</p>	<p>Geotechnical Engineering</p>	<p align="center">Yes</p>
3.	<p>ELOS Environmental, LLC 43177 E Pleasant Ridge Road Hammond, LA 70403</p>	<p>Biological and Environmental Assessments of Wetlands, Analysis and Permitting</p>	<p align="center">Yes</p>
J.	<p>Please specify the total number of support personnel that may assist in the completion of this Project:</p> <p align="center">_____ 16 _____</p>		

K. List the professional in charge, key persons, specialists, & 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:

**James E. Simmons, PE - Vice President**



Project Assignment:

**Project Manager / Senior Civil and Structural Engineer**

Name of Firm with which associated:

**N-Y Associates, Inc.**

Years' experience with this Firm:

**30 Years**

Education: Degree(s)/Year/Specialization:

**Bachelor of Science/1977/Louisiana State University/Civil Engineering**

Active registration: Year first registered/discipline:

**LA (19891)/1981/Civil Engineering      MS (10842)/1990/Civil Engineering      TX (134194)/2019/Civil Engineering**  
**FL (39890)/1988/Civil Engineering      NY (094047)/2014/Civil Engineering**

Other experience and qualifications relevant to the proposed Project:

**Mr. Simmons has 47 years of progressively responsible engineering experience, with particular emphasis on drainage systems (including canals and pumping stations), levees, floodwalls, flood control structures, sewerage facilities, ports, and industrial facilities, street and paving projects, highways and bridges.**

**Coastal and Flood Protection Experience:**

**Multi-Mission Station Building, U.S. Coast Guard Station; Metairie, LA:** A new \$10.5 million, 23,000 SF building including a control center, a communications center, administrative offices, classrooms, a conference room, several berthing rooms, a physical fitness area, galley, dining area and maintenance shop. **Construction of this project included dredging of the Bucktown Harbor channel and marina to a depth of EL -8 NGVD. The dredged spoils were used to create a mitigation area consisting of man-made marsh and a 1450 LF rock dike.**

**West Shore Lake Pontchartrain, WSLP-109, Levees and Floodwalls; St. John the Baptist Parish, LA:** 5580 LF of new levee, 280 LF of T-wall crossing over nine (9) pipelines, transition floodwalls tying the T-wall into the levee section, multiple T-wall monoliths up to 15' high designed to current HSDRRS criteria; and a multi-culvert crossing of the interior drainage canal at the access road.

**WSLP-114, Westshore Lake Pontchartrain Levees and Floodwalls; St. Charles and St. John the Baptist Parishes, LA:** 3000 LF of new levees and 1840 LF of new floodwalls (T-walls up to 27' high) to current HSDRSS criteria associated with the following 4 West Shore project.

**Morganza to the Gulf of Mexico; Minors and Shell East Canal Floodgate Complex; Terrebonne Parish, LA:** Design of 56' wide and 125' wide barge gates including the design of temporary by-pass channels, tie in T-walls (both straight and PI monoliths), braced cofferdams, barge gate receiving structures (pile supported foundations and abutments), guide walls, pile protection clusters, and other associated work.

**Mississippi River Manchac Levee Enlargement (3 miles); East Baton Rouge & Iberville Parishes for the USACE:** Design and Engineering During Construction for this project, which involved raising 15,600 LF of Mississippi River Levee to the authorized grade above the flow line.

**General Engineering Services IDIQ, Task Orders No. 4 & 5 – Periodic Levee Inspections for Angola and Simmesport Ring Levee Systems in West Feliciana Parish, LA and the Caernarvon to Phoenix Polder Levee System in Plaquemines Parish, LA:** Performance of Levee Safety Periodic Inspection to verify proper operation and maintenance, evaluate operational adequacy and structural stability, review design criteria to identify changes in current design standards, identify features to monitor over time, and assess the overall condition of the levee and associated drainage structures. The Angola Ring Area Levee System is 12.1 miles long and includes a drainage structure and two pump station (one electric and one diesel); The Simmesport Ring Area Levee System in 3.5 miles long and includes a drainage structure; the Caernarvon to Phoenix Polder Levee System is 22 miles long and begins at the Caernarvon Diversion structure.

**Hurricane Protection Alignments, Westbank & Vicinity: A. Reconnaissance-Level Study, B1. WBV-72 Lake Cataouatche Levee, B2. WBV-74 Western Tie-In Closure Structure at Bayou Verret (Sellers Canal); Jefferson and St. Charles Parishes, LA:** A. Reconnaissance-level study for hurricane protection alignments, raised to FEMA 100 year future case (2057) level of protection. **B1.** 12,450 LF of earthen levee, 2 concrete access bridges, a drainage feature in the Davis Pond Guide Levee, & a new drainage path for Jefferson Parish's pump station. **B2.** A 56' wide navigable sector gate; by-pass channel; 450 LF of T-wall; 1700 LF of earthen levee; 5 gate sluice structure & permanent access road.

**Bayou Segnette Complex Flood Protection: 56' Wide Navigable Sector Gate, Floodwalls, Levee & Pump Station; Jefferson Parish, LA:** The replacement of the existing flood protection system from Bayou Segnette Pumping Station to Westwego Pumping Station No. 2 with new protection designed to the USACE Case 1 - 100 year level of protection.

**Mississippi River LNG Flood Protection Project, LA 39; Bohemia, LA (South of Pointe a la Hache):** Flood protection of a proposed LNG facility on the Eastbank of the Mississippi River in Plaquemines Parish. The \$175 million required flood protection is a 9300 LF reinforced concrete, pile supported floodwall with two 30' vehicular access swing gates, pedestrian gates, and a 70' wide stop log access for future equipment. The height of the floodwall is approximately 27' above grade in accordance with the 100 year Base Flood Elevation and USACE HSDRSS.

**Improvements to Suburban Drainage Canal; Sections 1, 2, 3, 4 and 5; Jefferson Parish, LA (SELA Project):** A Hydraulic Analysis and Preliminary & Final plans for 3 box culverts at I-10, measuring 11' x 20' each; 4 box culverts at Veterans Blvd., measuring 11' x 21' each; a concrete flume section with a bottom width of 40' and a design flow of 3,000 CFS & a concrete flume section with a bottom width of 74' and a design flow of 3,600 CFS.

**Improvements to Drainage Canal No. 3; Jefferson Parish, LA (SELA Project):** Improvements to Drainage Canal No. 3 from I-10 to the Elmwood Canal consisting of an 1800 LF, 90' wide concrete flume section with side slope paving & a capacity of 4000 CFS.

**Jefferson Avenue Canal I, from South Claiborne Avenue to Dryades Street, for the Sewerage and Water Board of New Orleans (SELA Project):** Drainage improvements consisting of a 4400 LF covered reinforced concrete canal along Jefferson Avenue including roadway replacements and major utility relocations.

**New 1200 CFS Bayou Segnette Drainage Pumping Station for Jefferson Parish, LA:** A new 1200 CFS pumping station with two, 600 CFS horizontal pumps driven by diesel engines through gear reducers.

**Claiborne Avenue Manifold Canal, from LA Avenue to Jena Street for the Sewerage & Water Board of New Orleans. (SELA Project):** A single-barrel, 10'h x 24'w concrete box culvert from Jena St. to the west & a single barrel 10' h x 14' w concrete box culvert from Louisiana Avenue to the east, with a capacity of approx. 2000 CFS in the median of S. Claiborne Avenue (US 90).

**Hoey's Basin Pump to the River Project; Jefferson Parish, LA:** Engineering Feasibility, Hydraulic Modeling and Conceptual Cost Estimates evaluating a new drainage pump station in the 2,400 acre Jefferson Parish portion of the 10,000 acre Hoey's Drainage Basin. Alternatives included a 1600 CFS station (with a 13' diameter, 5400 LF discharge force main) expandable to 2400 CFS and a 1000 CFS station with a detention pond for interim stormwater storage.

**1000 CFS Addition to Drainage Pumping Station No. 11 for the Sewerage & Water Board of New Orleans:** A 10,000 SF pump house, two 500 CFS pumps, and related electrical/mechanical systems and controls. The project included two I-walls and one T-wall along with improvements to the levee along the Gulf Intracoastal Waterway.

**Plans and Specifications for a 750 CFS Interim Pump Facility at the East of Harvey Sector Gate Structure; Jefferson Parish, LA for the USACE:** Design and Engineering during Construction of a 750 CFS interim pump station facility with pumps and engines provided by the Government. Design included the support structure and lateral bracing for the temporary pumps to be located within the Sector Gate Structure East side gatebay recess, location and support for discharge piping and discharge pipes, diesel engine and fuel storage platform, fuel transfer systems, connecting hydraulic and water lines and their support structure, lighting, generator and all other mechanical and electrical components.

#### Memberships & Associations:

- American Society of Civil Engineers
- Society of American Military Engineers
- American Concrete Institute

# LICENSURE/CERTIFICATIONS: JAMES SIMMONS, PE



**LOUISIANA PROFESSIONAL  
ENGINEERING & LAND SURVEYING BOARD  
(LAPELS)**  
9643 Brookline Avenue, Suite 121  
Baton Rouge, LA 70809  
Phone (225) 925-6291  
www.lapels.com

**Mr. James E. Simmons**

License/Certificate Type - Number  
**PE.0019891**

Expiration Date  
**09/30/2025**

Status: **Active**



## PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

**James E Simmons**  
has attended  
**Louisiana Traffic Control Technician**  
Training Course

9/5/2023 to 9/5/2027  
Training Valid Through

Baton Rouge, LA  
Location

*Donna M. Clark*  
Vice President of Education and Technical Services  
*Sharon Tischer*  
President, CEO

ATSSA provides training and certification but neither constitutes employment by ATSSA.



American Traffic Safety Services Association ATSSA.com

## ACEC

AMERICAN COUNCIL OF ENGINEERING COMPANIES  
of Mississippi

*This Certificate of Participation  
is presented to*

**Jim Simmons**

*for participating in the following sessions at the  
2014 ACEC-MS/NSBA Steel Bridge Forum*

*Topics on Steel Girder Design*

*Constructability and Availability Considerations for Steel Bridges*

*Virtual Fabrication Shop Tour*

*Bolted Splice Design*

*Effect of skewed Supports on Steel I girder Bridge Behavior*

*Advanced Fabrication Processes*

*At the Mississippi ABC Building, Pearl MS  
August 28, 2014*

The Mississippi Board of Registration for Professional Engineers and Land Surveyors (BOR) has established the formal Professional Development Hour (PDH) in the requirements for license renewal. Seminars within this meeting conform to the rules established by the BOR, and in consequence, should qualify for a formal 6.5 PDH credits.

*James Nelson*

James Nelson  
President, ACEC/MS

*Judy Adams*

Judy Adams  
Executive Director, ACEC/MS



## PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

**James E Simmons**  
has attended  
**Louisiana Traffic Control Supervisor**  
Training Course

9/6/2023 to 9/6/2027  
Training Valid Through

Baton Rouge, LA  
Location

*Donna M. Clark*  
Vice President of Education and Technical Services  
*Sharon Tischer*  
President, CEO

ATSSA provides training and certification but neither constitutes employment by ATSSA.



American Traffic Safety Services Association ATSSA.com



## National Highway Institute Certificate of Training

**James E. Simmons**

*has participated in*  
**NEPA and Transportation Decision Making**

*hosted by*  
**LADOTD / LTRC**

*Location:* Baton Rouge, LA

*Hours of instruction:* 18

*Date:* August 31 - September 2, 2004

*Michael J.A. Gandy*  
Instructor  
*Morgan Ayala*

Director, National Highway Institute  
Federal Highway Administration

*William M. Gandy*  
Coordinator  
*William M. Gandy*

Director, Office of Professional Development  
Federal Highway Administration



## Certificate of Attendance

Local Public Agency Qualification Program  
Project Design & Delivery: Developing an LPA Project for Bidding Module

PRESENTED BY  
Louisiana Department of Transportation and Development  
Louisiana Local Technical Assistance Program  
And  
The Federal Highway Administration

TO CERTIFY THAT  
**Jim Simmons**

HAS SATISFACTORILY COMPLETED 7 HOURS OF TRAINING

*John M. ...*  
Director of Local Public

February 24, 2015  
Date  
New Orleans, Louisiana



*This certificate of training is presented to*  
**JAMES SIMMONS**  
*In Recognition of Attending*  
**Highway Safety Manual Workshop**  
**Baton Rouge, Louisiana**

Elizabeth Wemple, PE  
Eric Tang, PE  
Instructor

18.0 Professional Development Hours

Nov 30 - Dec 2, 2011  
Date

**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

Name & Title:

**Frank Nicoladis, PE - Chairman / Founder**

Project Assignment:

**Principal and Project Oversight / Civil Engineer**

Name of Firm with which associated:

**N-Y Associates, Inc.**

Years' experience with this Firm:

**55 Years**

Education: Degree(s)/Year/Specialization:

**Bachelor of Science/1957/Mississippi State University/Civil Engineering**

Active registration: Year first registered/discipline:

<b>LA (5924)/1957/Civil Engineering</b>	<b>MS (2468)/1961/Civil Engineering</b>	<b>TX (32329)/1971/Civil Engineering</b>
<b>FL (36371)/1985/Civil Engineering</b>	<b>AR (3373)/1972/Civil Engineering</b>	<b>LA (2862)/1957/Surveying (retired)</b>

Other experience and qualifications relevant to the proposed Project:

Mr. Nicoladis has 67 years of experience as a consulting engineer, over 50 years as President of N-Y. Mr. Nicoladis has served as a Principal-in-Charge for many N-Y projects undertaken for public agencies at the federal, state and local levels. His role is to ensure that the client's expectations of the firm are fully achieved, that projects are adequately staffed, that the firm's quality control standards are adhered to during the design process and that the client's schedule and budget are met.

**Coastal and Flood Protection Experience:**

**Multi-Mission Station Building, U.S. Coast Guard Station; Metairie, LA:** A new \$10.5 million, 23,000 SF building including a control center, a communications center, administrative offices, classrooms, a conference room, several berthing rooms, a physical fitness area, galley, dining area and maintenance shop. *Construction of this project included dredging of the Bucktown Harbor channel and marina to a depth of EL -8 NGVD. The dredged spoils were used to create a mitigation area consisting of man-made marsh and a 1450 LF rock dike.*

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**Morganza to the Gulf of Mexico; Minors and Shell East Canal Floodgate Complex; Terrebonne Parish, LA:** Design of 56' wide and 125' wide barge gates including the design of temporary by-pass channels, tie in T-walls (both straight and PI monoliths), braced cofferdams, barge gate receiving structures (pile supported foundations and abutments), guide walls, pile protection clusters, and other associated work.

**Bayou Sauvage Master Plan and Environmental Impact Statement; New Orleans, LA:** Assistance with the preparation of a Master Plan for facility improvements and an Environmental Impact Statement for a 23,000 acre National Wildlife Refuge in Eastern New Orleans. The Master Plan contains concepts to guide further development and implementation of land use, recreation and resource management programs and associated facilities. The EIS was prepared in compliance with National Environmental Protection Act (NEPA) guidelines to document the existing natural environmental and socio-economic setting and to evaluate the impact of the master plan actions and alternatives analysis.

**Mississippi River Manchac Levee Enlargement; East Baton Rouge and Iberville Parishes, LA:** Raising 15,600 LF of Mississippi River Levee to the authorized grade above the flow line and realignment of the levee centerline to salvage existing concrete slope paving within the existing right-of-way.

**1077/1085 Drainage Study; St. Tammany Parish, LA:** Hydraulic Modeling of Existing Conditions and Proposed Improvements for this 12,500 acre area, utilizing HEC-RAS.

**Tantella Ranch/McGee Road Drainage Report; St. Tammany Parish, LA:** Hydraulic Modeling of Existing Conditions and Proposed Improvements for a 1,780 acre area on Tantella Ranch Road, utilizing SWMM.

**Alton Area Drainage; St. Tammany Parish, LA:** Hydraulic Modeling of Existing Conditions and Proposed Improvements to alleviate street and nuisance flooding in the Alton Subdivision, utilizing SWMM. Design for Phase I of the proposed drainage improvements.

**Hurricane Protection Alignments, Westbank & Vicinity: A. Reconnaissance-Level Study, B1. WBV-72 Lake Cataouatche Levee, B2. WBV-74 Western Tie-In Closure Structure at Bayou Verret (Sellers Canal); Jefferson and St. Charles Parishes, LA: A.** Reconnaissance-level study for hurricane protection alignments, raised to FEMA 100 year future case (2057) level of protection. **B1.** 12,450 LF of earthen levee, 2 concrete access bridges, a drainage feature in the Davis Pond Guide Levee, & a new drainage path for Jefferson Parish's pump station. **B2.** A 56' wide navigable sector gate; by-pass channel; 450 LF of T-wall; 1700 LF of earthen levee; 5 gate sluice structure & permanent access road.

**Bayou Segnette Complex Flood Protection: 56' Wide Navigable Sector Gate, Floodwalls, Levee & Pump Station; Jefferson Parish, LA:** The replacement of the existing flood protection system from Bayou Segnette Pumping Station to Westwego Pumping Station No. 2 with new protection designed to the USACE Case 1 - 100 year level of protection.

**Mississippi River LNG Flood Protection Project, LA 39; Bohemia, LA (South of Pointe a la Hache):** Flood protection of a proposed LNG facility on the Eastbank of the Mississippi River in Plaquemines Parish. The \$175 million required flood protection is a 9300 LF reinforced concrete, pile supported floodwall with two 30' vehicular access swing gates, pedestrian gates, and a 70' wide stop log access for future equipment. The height of the floodwall is approximately 27' above grade in accordance with the 100 year Base Flood Elevation and USACE HSDRSS.

**Improvements to Suburban Drainage Canal; Sections 1, 2, 3, 4 and 5; Jefferson Parish, LA (SELA Project):** A Hydraulic Analysis and Preliminary & Final plans for 3 box culverts at I-10, measuring 11' x 20' each; 4 box culverts at Veterans Blvd., measuring 11' x 21' each; a concrete flume section with a bottom width of 40' and a design flow of 3,000 CFS & a concrete flume section with a bottom width of 74' and a design flow of 3,600 CFS.

**Improvements to Drainage Canal No. 3; Jefferson Parish, LA (SELA Project):** Improvements to Drainage Canal No. 3 from I-10 to the Elmwood Canal consisting of an 1800 LF, 90' wide concrete flume section with side slope paving & a capacity of 4000 CFS.

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**Claiborne Avenue Manifold Canal, from LA Avenue to Jena Street for the Sewerage & Water Board of New Orleans. (SELA Project):** A single-barrel, 10'h x 24'w concrete box culvert from Jena St. to the west & a single barrel 10' h x 14' w concrete box culvert from Louisiana Avenue to the east, with a capacity of approx. 2000 CFS in the median of S. Claiborne Avenue (US 90).

**New 1200 CFS Bayou Segnette Drainage Pumping Station for Jefferson Parish, LA:** A new 1200 CFS pumping station with two, 600 CFS horizontal pumps driven by diesel engines through gear reducers.

**Duncan Canal Improvements at West Esplanade Avenue; Kenner, LA:** A Hydraulics Study and Preliminary & Final Design of a double barrel, 3000 CFS, 300 LF box culvert which will replace the existing bridges crossing the Duncan Canal.

**1000 CFS Addition to Drainage Pumping Station No. 11 for the Sewerage & Water Board of New Orleans:** A 10,000 SF pump house, two 500 CFS pumps, and related electrical/mechanical systems and controls. The project included two I-walls and one T-wall along with improvements to the levee along the Gulf Intracoastal Waterway.

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#### Memberships & Associations:

- Fellow, Society of American Military Engineers
- Fellow and Life Member, American Society of Civil Engineers
- Fellow, American Council of Engineering Companies
- Life Member, American Waterworks Association
- Life Member, American Public Works Association
- Life Member, Louisiana Engineering Society
- Water Environment Federation
- Louisiana Water Environment Association
- National Society of Professional Engineers
- American Planning Association
- Who's Who in Engineering (AAES)
- Who's Who in the South and Southwest (Marquis)



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Mr. Frank Nicoladis

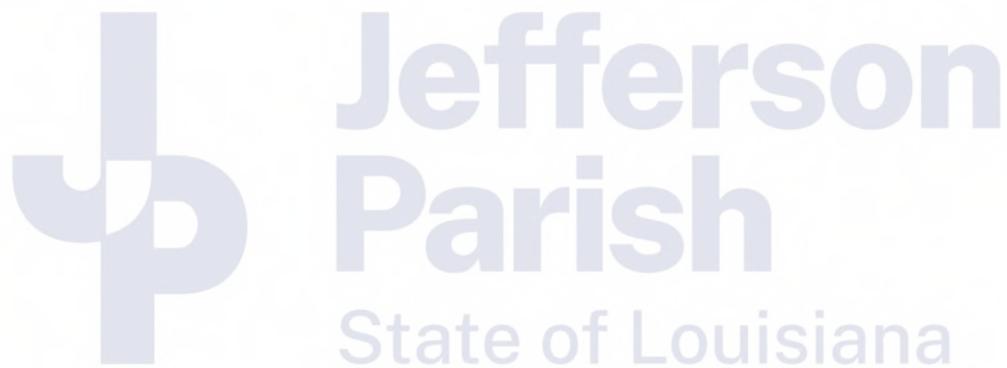
License/Certificate Type - Number

PE.0005924

Expiration Date

03/31/2025

Status: **Active**



**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

Name & Title:

**Michael F. Nicoladis, EI, MBA - President**



Project Assignment:

**Principal / Project & Subconsultant Management**

Name of Firm with which associated:

**N-Y Associates, Inc.**

Years' experience with this Firm:

**40 Years**

Education: Degree(s)/Year/Specialization:

**Bachelor of Science/1982/Vanderbilt University/Civil Engineering (Magna Cum Laude)**

**Master of Business Administration/1984/Duke University (Fuqua Scholar)**

Active registration: Year first registered/discipline:

**LA (8705)/1982/Engineering Intern**

Other experience and qualifications relevant to the proposed Project:

Mr. Nicoladis has had a variety of design, construction administration and project management experience since joining the firm in 1984. As President, he is responsible for overseeing the daily operations and administration of N-Y. He is instrumental in new business development, contract negotiations, and scheduling of work. Mr. Nicoladis also serves as a Principal on many projects and plays a major role in overseeing the firm's client management program.

**Coastal and Flood Protection Experience:**

**Multi-Mission Station Building, U.S. Coast Guard Station; Metairie, LA:** A new \$10.5 million, 23,000 SF building including a control center, a communications center, administrative offices, classrooms, a conference room, several berthing rooms, a physical fitness area, galley, dining area and maintenance shop. **Construction of this project included dredging of the Bucktown Harbor channel and marina to a depth of EL -8 NGVD. The dredged spoils were used to create a mitigation area consisting of man-made marsh and a 1450 LF rock dike.**

**West Shore Lake Pontchartrain, WSLP-109, Levees and Floodwalls; St. John the Baptist Parish, LA:** 5580 LF of new levee, 280 LF of T-wall crossing over nine (9) pipelines, transition floodwalls tying the T-wall into the levee section, multiple T-wall monoliths up to 15' high designed to current HSDRRS criteria; and a multi-culvert crossing of the interior drainage canal at the access road.

**WSLP-114, Westshore Lake Pontchartrain Levees and Floodwalls; St. Charles and St. John the Baptist Parishes, LA:** 3000 LF of new levees and 1840 LF of new floodwalls (T-walls up to 27' high) to current HSDRSS criteria associated with the following 4 West Shore project.

**Morganza to the Gulf of Mexico; Minors and Shell East Canal Floodgate Complex; Terrebonne Parish, LA:** Design of 56' wide and 125' wide barge gates including the design of temporary by-pass channels, tie in T-walls (both straight and PI monoliths), braced cofferdams, barge gate receiving structures (pile supported foundations and abutments), guide walls, pile protection clusters, and other associated work.

**Bayou Sauvage Master Plan and Environmental Impact Statement; New Orleans, LA:** Assistance with the preparation of a Master Plan for facility improvements and an Environmental Impact Statement for a 23,000 acre National Wildlife Refuge in Eastern New Orleans. The Master Plan contains concepts to guide further development and implementation of land use, recreation and resource management programs and associated facilities. The EIS was prepared in compliance with National Environmental Protection Act (NEPA) guidelines to document the existing natural environmental and socio-economic setting and to evaluate the impact of the master plan actions and alternatives analysis.

**Hurricane Protection Alignments, Westbank & Vicinity:**  
**A. Reconnaissance-Level Study, B1. WBV-72 Lake Cataouatche Levee, B2. WBV-74 Western Tie-In Closure Structure at Bayou Verret (Sellers Canal); Jefferson and St. Charles Parishes, LA:** A. Reconnaissance-level study for hurricane protection alignments, raised to FEMA 100 year future case (2057) level of protection. **B1.** 12,450 LF of earthen levee, 2 concrete access bridges, a drainage feature in the Davis Pond Guide Levee, & a new drainage path for Jefferson Parish's pump station. **B2.** A 56' wide navigable sector gate; by-pass channel; 450 LF of T-wall; 1700 LF of earthen levee; 5 gate sluice structure & permanent access road.

**Mississippi River Manchac Levee Enlargement; East Baton Rouge and Iberville Parishes, LA:** Raising 15,600 LF of Mississippi River Levee to the authorized grade above the flow line and realignment of the levee centerline to salvage existing concrete slope paving within the existing right-of-way.

**Bayou Segnette Complex Flood Protection: 56' Wide Navigable Sector Gate, Floodwalls, Levee & Pump Station; Jefferson Parish, LA:** The replacement of the existing flood protection system from Bayou Segnette Pumping Station to Westwego Pumping Station No. 2 with new protection designed to the USACE Case 1 - 100 year level of protection.

**Improvements to Suburban Drainage Canal; Sections 1, 2, 3, 4 and 5; Jefferson Parish, LA (SELA Project):** A Hydraulic Analysis and Preliminary & Final plans for 3 box culverts at I-10, measuring 11' x 20' each; 4 box culverts at Veterans Blvd., measuring 11' x 21' each; a concrete flume section with a bottom width of 40' and a design flow of 3,000 CFS & a concrete flume section with a bottom width of 74' and a design flow of 3,600 CFS.

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**Jefferson Avenue Canal I, from South Claiborne Avenue to Dryades Street, for the Sewerage and Water Board of New Orleans (SELA Project):** Drainage improvements consisting of a 4400 LF covered reinforced concrete canal along Jefferson Avenue including roadway replacements and major utility relocations.

**New 1200 CFS Bayou Segnette Drainage Pumping Station for Jefferson Parish, LA:** Design, bidding, construction administration and resident inspection for a new 1200 CFS pumping station with two, 600 CFS horizontal pumps driven by diesel engines through gear reducers.

**Duncan Canal Improvements at West Esplanade Avenue; Kenner, LA:** A Hydraulic Study using HEC-RAS and LDOTD Standards and Design of a 300 LF reinforced concrete box culvert to improve stormwater flow in the Duncan Canal at its intersection with Canal No. 2 at West Esplanade Avenue. Preliminary and Final Design of the 300 LF box culvert which will replace the existing bridges crossing the Duncan Canal.

**Hoey's Basin Pump to the River Project; Jefferson Parish, LA:** Engineering Feasibility, Hydraulic Modeling and Conceptual Cost Estimates evaluating a new drainage pump station in the 2,400 acre Jefferson Parish portion of the 10,000 acre Hoey's Drainage Basin. Alternatives included a 1600 CFS station (with a 13' diameter, 5400 LF discharge force main) expandable to 2400 CFS and a 1000 CFS station with a detention pond for interim stormwater storage.

**Fronting Protection for Estelle No. 1 (Old) and Estelle No. 2 (New) Pumping Stations; Jefferson Parish, LA:** Preparation of the Design Report and Plans & Specifications to provide fronting protection across the entire width of the pumping station discharge areas. The designs consisted of a combination of gate and T-wall monoliths and include positive cutoff for backflow prevention using sluice gates at concrete discharge tubes and butterfly valves at steel discharge pipes.

**Interim 2100 CFS Drainage Pumping Station at the 17<sup>th</sup> Street Canal for the USACE (post-Katrina):** Design and Engineering During Construction of the pump platforms, engine buildings and discharge piping for this 2,100 cfs station. The pump station consists of two pump platforms, each consisting of six pumps located on either side of the 17th Street Canal. N-Y was the design engineer of record as a subconsultant to another firm.

#### Memberships & Associations:

- American Society of Civil Engineers
- Society of American Military Engineers
- American Council of Engineering Companies
- American Public Works Association
- American Concrete Institute
- Tau Beta Pi
- Chi Epsilon
- Who's Who in America (Marquis)
- Who's Who in Science and Engineering (Marquis)
- Who's Who in Finance and Industry (Marquis)



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Mr. Michael F. Nicoladis

License/Certificate Type - Number

EI.0008705

Expiration Date

09/30/2025

Status: **Active**



Jefferson  
Parish

State of Louisiana

**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

Name & Title:

**Bruce Richards, AICP, PTP, GIP**

Project Assignment:

**Deputy Project Manager / Environmental Planner (NEPA)**

Name of Firm with which associated:

**N-Y Associates, Inc.**

Years' experience with this Firm:

**25 Years**

Education: Degree(s)/Year/Specialization:

**Master of City Planning/1989/Georgia Institute of Technology; Bachelor of Arts/1986/Louisiana State University**

Active registration: Year first registered/discipline:

**1999/LA AICP No. 126106**

Other experience and qualifications relevant to the proposed Project:

**Mr. Richards offers 36 years of planning experience in the areas of feasibility studies, transportation planning, master plans, environmental assessments & impact statements, research and operations studies, traffic impact studies, and noise mitigation.**

**Mr. Richards has completed the NHI Course No. 142005, "National Environmental Policy Act (NEPA) and Transportation Decision Making" and the course on Section 106 of the National Preservation Act offered by the Advisory Council on Historic Preservation.**

**Project Experience**

**General Engineering Services IDIQ for the USACE, Task Order No. 2 - Project Management Support for Flood Risk Management Risk Consequence Data:** The collection of performance measure data for approximately 25 Flood Risk Management (FRM) projects throughout the MVN area of responsibility, including projects in the feasibility study, design and construction phases. **Responsibilities include reviewing existing FRM risk consequence data, updating existing FRM risk consequence data, and fact sheet documentation of FRM risk consequence data.**

**LA 3234 Extension (LA 1065 to Hammond Airport); Tangipahoa Parish, LA:** Engineering, Environmental, and Planning Services for a Stage 1 Environmental Assessment (including Concept Engineering Design) for extending LA 3234. ***This project includes Environmental Site Assessments, Risk Assessments, Wetlands Evaluation and Delineation, and Regulatory/Permits Research in compliance with NEPA.***



**US 51 (LA 22 to Club Deluxe Road) Environmental Assessment; Tangipahoa Parish, LA:** Engineering, Environmental and Planning services for a Stage 1 Environmental Assessment (including Concept Engineering Design) for added capacity and intersection improvements to US 51. ***This project includes Environmental Site Assessments, Risk Assessments, Wetlands Evaluation and Delineation, and Regulatory/Permits Research in compliance with NEPA.***

**Environmental Impact Statement (EIS) and Interchange Justification Report (IJR) for US 61 at Reserve to I-10 Port Connector Road for the Port of South Louisiana and St. John the Baptist Parish, LA:** Environmental Impact Statement for new roadway and bridge alternatives for port, commercial and local traffic to connect US 61 to I-10 in St. John Parish. Identification of the preferred alternative, which includes a new I-10 interchange in St. John Parish, required an Interchange Justification Report to be prepared concurrently with the preparation of the Final Environmental Impact Statement (FEIS). ***This project includes Environmental Site Assessments, Risk Assessments, Wetlands Evaluation and Delineation, and Regulatory/Permits Research in compliance with NEPA.***

**Environmental Assessment and Preliminary Engineering for a New Lapalco Boulevard Bridge Crossing the Harvey Canal; Jefferson Parish, LA:** Line & Grade Study and an Environmental Assessment (including Preliminary Engineering Design) for a new westbound, double leaf bascule (moveable span) bridge crossing the Harvey Canal at Lapalco Boulevard parallel to the existing moveable bridge. ***This project included Environmental Site Assessments, Risk Assessments, Wetlands Evaluation and Delineation, and Regulatory/Permits Research in compliance with NEPA.***

**East-West Corridor Multi-Modal Environmental Impact Statement; Jefferson, Orleans, and St. Charles Parish, LA:** Engineering and Planning services for an Environmental Impact Statement, including alignment studies and impact analysis of the build alternatives necessary to obtain a Record of Decision for this multi-modal transit and highway corridor. N-Y's work focused on the development of Airline Highway widening alternatives (six and eight lane) and new at-grade and elevated expressway alternatives (six & eight lanes with four lane service roads). ***This project included Environmental Site Assessments, Risk Assessments, Wetlands Evaluation and Delineation, and Regulatory/Permits Research in compliance with NEPA.***

**Environmental Assessment for Causeway/Earhart Interchange, Route LA 3139; Jefferson Parish, LA:** Feasibility Study and Environmental Inventory (including line and grade) for a proposed interchange at the Earhart Expressway (LA 3139) and Causeway Boulevard (LA 3046). Plans, profiles, and cost estimates were developed for six multi-level interchange alternatives. Two provide all eight possible turning movements with signalization; four are free-flow providing six turning movements. The final two alternatives were evaluated in a Stage 1 Environmental Assessment. ***This project included Environmental Site Assessments, Risk Assessments, Wetlands Evaluation and Delineation, and Regulatory/Permits Research in compliance with NEPA.***

**LA 1088 Interchange, Route I-12; St. Tammany Parish, LA:** Geometric Design Study (including engineering feasibility of alternatives), **Environmental Assessment**, Topographic Surveys, and Preliminary & Final Roadway & Bridge Plans for adding a fully directional interchange to Interstate 12 at LA 1088. ***This project included Environmental Site Assessments, Risk Assessments, Wetlands Evaluation and Delineation, and Regulatory/Permits Research in compliance with NEPA.***

**Environmental Assessment for LA Highway 23 (Happy Jack to N. Port Sulphur); Plaquemines Parish, LA:** For most of its length, LA 23 exists as a four-lane section. However, between the communities of Happy Jack and Port Sulphur, a 3.8 mile stretch of highway contains only two lanes. N-Y provided a Stage 1 Environmental Assessment to explore the conversion of this segment to four lanes, which included the development, refinement and analysis of alternatives, conceptual roadway and drainage plans, cost estimates and an analysis of likely impacts. ***This project included Environmental Site Assessments, Risk Assessments, Wetlands Evaluation and Delineation, and Regulatory/Permits Research in compliance with NEPA.***

**Environmental Assessment for Florida Avenue Bridge and Expressway; Orleans and St. Bernard Parishes, LA:** Stage 1 Environmental Assessment and Concept Engineering Design for a new Florida Avenue Bridge over the Inner Harbor Navigation Canal (IHNC) from Poland/Alvar Streets in Orleans Parish to Paris Road in St. Bernard Parish; 18 fixed span and moveable span bridge alternatives and various corridor plans for roadway widening and interchange alternatives were considered. The EA had a major community outreach effort which included 18 public meetings. ***This project included Environmental Site Assessments, Risk Assessments, Wetlands Evaluation and Delineation, and Regulatory/Permits Research in compliance with NEPA.***

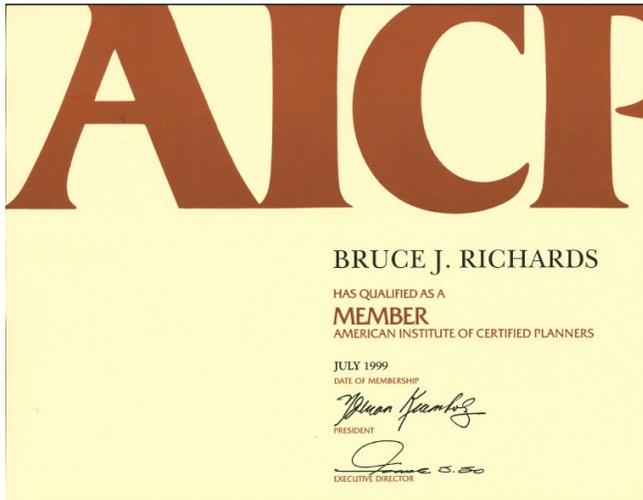
**Environmental Assessment for Hooper Road Extension (LA 408); East Baton Rouge and Livingston Parishes, LA:** Engineering, Environmental and Planning Services for a Stage 1 Environmental Assessment (including Concept Engineering Design) for improvements and extension of Hooper Road (LA 408). This study included development of alternatives and alternative analyses, concept roadway and bridge plans, a traffic impact study, cost estimates, environmental impact analyses, conceptual relocation plan, and a public participation program. ***This project included Environmental Site Assessments, Risk Assessments, Wetlands Evaluation and Delineation, and Regulatory/Permits Research in compliance with NEPA.***

**Environmental Assessment for Ambassador Caffery Parkway (Willow Road to Carenco); Lafayette Parish, LA:** A Line and Grade Study and Environmental Evaluation, and an Environmental Assessment for an extension of Ambassador Caffery Parkway, a major North-South thoroughfare in Lafayette Parish. The total length of the project is approximately eight (8) miles, including tie-ins to two (2) existing interchanges at I-10 and I-49, with improvements to the Interchange at I-10. ***This project included Environmental Site Assessments, Risk Assessments, Wetlands Evaluation and Delineation, and Regulatory/Permits Research in compliance with NEPA.***

#### Memberships & Associations:

- American Planning Institute
- American Institute of Certified Planners

**LICENSURE/CERTIFICATIONS: BRUCE RICHARDS, AICP, PTP GIP**



**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

Name &amp; Title:

**Constantine F. Nicoladis, PE – Senior Vice President**

Project Assignment:

**Senior Civil and Hydraulic Engineer**

Name of Firm with which associated:

**N-Y Associates, Inc.**

Years' experience with this Firm:

**37 Years**

Education: Degree(s)/Year/Specialization:

**Bachelor of Science/1985/Vanderbilt University/Civil and Environmental Engineering****Master of Business Administration/1987/Loyola University**

Active registration: Year first registered/discipline:

<b>LA (27095)/1997/Civil Engineering</b>	<b>MS (13351)/1997/Civil Engineering</b>	<b>TX (92359)/2003/Civil Engineering</b>
<b>FL (052242)/1997/Civil Engineering</b>	<b>AL (22315)/1998/Civil Engineering</b>	<b>NY (094123)/2014/Civil Engineering</b>

Other experience and qualifications relevant to the proposed Project:

**Mr. Nicoladis has 37 years of progressively responsible engineering experience, with particular emphasis on drainage systems (including subsurface drainage, canals and pumping stations), levees, floodwalls, flood control structures, water and sewage utilities, and street and roadway reconstruction projects. He has extensive experience working with public and private clients at the local, state and federal level.**

**Coastal and Flood Protection Experience:**

**Multi-Mission Station Building, U.S. Coast Guard Station; Metairie, LA:** A new \$10.5 million, 23,000 SF building including a control center, a communications center, administrative offices, classrooms, a conference room, several berthing rooms, a physical fitness area, galley, dining area and maintenance shop. **Construction of this project included dredging of the Bucktown Harbor channel and marina to a depth of EL -8 NGVD. The dredged spoils were used to create a mitigation area consisting of man-made marsh and a 1450 LF rock dike.**

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**Jones Creek Area Drainage Improvements; Franklinton, LA:** Development of a HEC-RAS hydraulic computer model of the 213 acre Jones Creek Drainage Basin. Design for an earthen channel measuring 1500 LF and concrete flume sections measuring 3800 LF to improve flow capacities on Jones Creek and the Jones Creek Lateral.

**Downtown Area Drainage Improvements; Franklinton, LA:** Development of a HEC-RAS hydraulic computer model of a 26 acre area. Design for improvements to the area's subsurface drainage system, which included 30" to 60" diameter reinforced concrete pipe.

**Fronting Protection for Estelle No. 1 (Old) and Estelle No. 2 (New) Pumping Stations; Jefferson Parish, LA:** Preparation of the Design Report and Plans & Specifications to provide fronting protection across the entire width of the pumping station discharge areas. The designs consisted of a combination of gate and T-wall monoliths and include positive cutoff for backflow prevention using sluice gates at concrete discharge tubes and butterfly valves at steel discharge pipes.

**750 CFS Interim Pump Facility at the East of Harvey Sector Gate Structure; Jefferson Parish, LA:** Design and Engineering during Construction of a 750 CFS interim pump station facility with pumps and engines provided by the Government.

**Main Street Drainage Improvements; Plaquemines Parish, LA:** New subsurface drainage improvements on Main Street and Avenue "D" including a new 50 CFS drainage pump station discharging to the Mississippi River. This project includes Environmental Clearance, Permitting and a Hydraulics and Hydrology Study utilizing SWMM computer modeling.

#### Memberships & Associations

- American Society of Civil Engineers
- Society of American Military Engineers
- Water Environment Federation
- American Concrete Institute
- American Council of Engineering Companies



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**Mr. Constantine Frank Nicoladis**

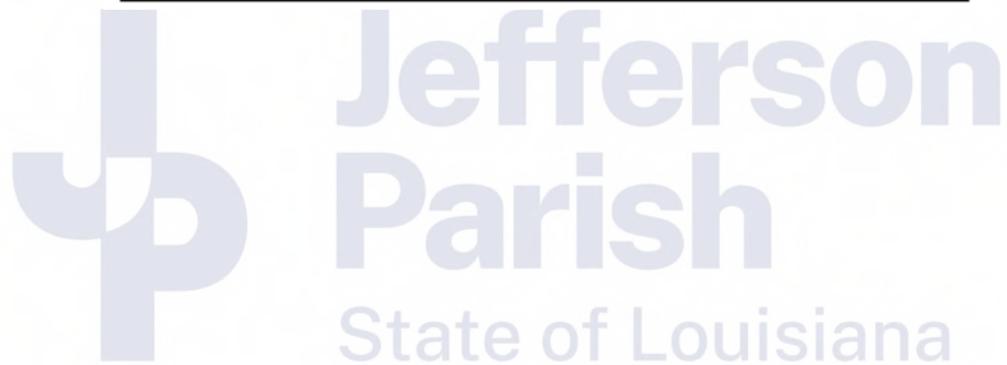
License/Certificate Type - Number

**PE.0027095**

Expiration Date

**09/30/2025**

Status: **Active**



**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

Name & Title:

**Robert Yokum, PE – Senior Structural Engineer**



Project Assignment:

**Senior Structural Engineer**

Name of Firm with which associated:

**N-Y Associates, Inc. (part-time)**

Years' experience with this Firm:

**18 Years / 31 years with Other Firms**

Education: Degree(s)/Year/Specialization:

**Master of Science/1975/Civil Engineering; Bachelor of Science/1988/Civil Engineering**

Active registration: Year first registered/discipline:

**LA (21422)/1984/Civil**

Other experience and qualifications relevant to the proposed Project:

**Prior to working with N-Y, Mr. Yokum was a Structural Engineer with the USACE, New Orleans District, where he designed locks, dams, levees, floodwalls, floodgates and flood control structures. Mr. Yokum also participated in periodic inspections for locks, control structures and bridges.**

**Coastal and Flood Protection Experience:**

**WSLP 109 - West Shore Lake Pontchartrain Levees and Floodwalls; St. John the Baptist Parish, LA:** 5580 LF of new levee, 280 LF of T-wall, transition floodwalls tying the T-wall into the levee section, and multiple T-wall monoliths up to 15' high designed to current HSDRRS criteria.

**WSLP 114 - West Shore Lake Pontchartrain Levees and Floodwalls; St. Charles and St. John the Baptist Parishes, LA:** 3000 LF of new levees and 1840 LF of new floodwalls (T-walls up to 27' high) to current HSDRSS criteria associated with the following 4 West Shore project Drainage Pumping Stations: Hope Canal Pump Station, Reserve Relief Canal Pump Station, I-55 Floodwall & Pump Station, Prescott Canal Pump Station. The project also includes a 14'h x 16'w steel swing gate for access through the flood protection T-wall at Prescott Canal Pump Station.

**Morganza to the Gulf of Mexico; Minors and Shell East Canal Floodgate Complex; Terrebonne Parish, LA:** Design of 56' wide and 125' wide barge gates including the design of temporary by-pass channels, tie in T-walls (both straight and PI monoliths), braced cofferdams, barge gate receiving structures (pile supported foundations and abutments), guide walls, pile protection clusters, and other associated work.

**Levee Periodic Inspection #2 for Mississippi River West Bank – Below Morganza Levee System in Pointe Coupee, West Baton Rouge, Iberville, New Iberia, Ascension and St. Martin Parishes, LA:** Levee Safety Periodic Inspection for 180 miles of levee including 232 relief wells, 23 floodgates and 2 navigation structures (Port Allen Lock and Bayou Sorrel Lock).

**WBV-74 Western Tie-in Closure Structure (Sellars Canal Sector Gate) in St. Charles Parish, LA:** A 56' wide, navigable sector gate; by-pass channel; 450 LF of T-wall; 1700 LF of earthen levee; and a 5-gate sluice gate structure.

**Bayou Segnette Complex Flood Protection: Navigable Sector Gate, Floodwalls, Levee & Pump Station; Jefferson Parish, LA:** Replacement of the existing flood protection from Bayou Segnette Pump Station to Westwego Pump Station No. 2 with new protection which includes a 50' wide navigable sector gate crossing Bayou Segnette and a combination of 1600 LF of concrete T-walls and 800 LF of earthen levees.

**Upper Ohio Lock Modernization Project, Montgomery Locks and Dam; Monaca, PA:** Replacement of the existing auxillary 56 x 360 foot lock chamber with a new 110 x 600 foot chamber, which will require the removal of one fixed weir dam bay. As a major subconsultant, N-Y is responsible for the 1140 ft. long Lock River Wall consisting of 26 monoliths ranging from 40 to 60 ft. in length.

**Periodic Inspections: Bayou Bienvenue & Bayou Dupre Control Structures for the USACE, New Orleans District:** Structural portion of the periodic inspections and report preparation for Bayou Bienvenue and Bayou Dupre Control Structures. The inspection was based on a detailed visual inspection of all project features above the water level (from water & land sides), focusing on safety, stability & operational adequacy including observation of the structures operating thru a full closing and opening cycle.

**Periodic Inspections: Multiple Structures (Locks and Diversions) for the USACE, New Orleans District:** Structural portion of the periodic inspections and report preparation for Old River Lock, Port Allen Lock, Davis Pond Freshwater Diversion Structure, Harvey Lock, Algiers Lock, and Inner Harbor Navigation Canal Lock. The inspection was based on a detailed visual inspection of all project features above the water level (from water & land sides), focusing on safety, stability & operational adequacy including observation of the structures operating thru a full closing and opening cycle.



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Mr. Robert W. Yokum

License/Certificate Type - Number

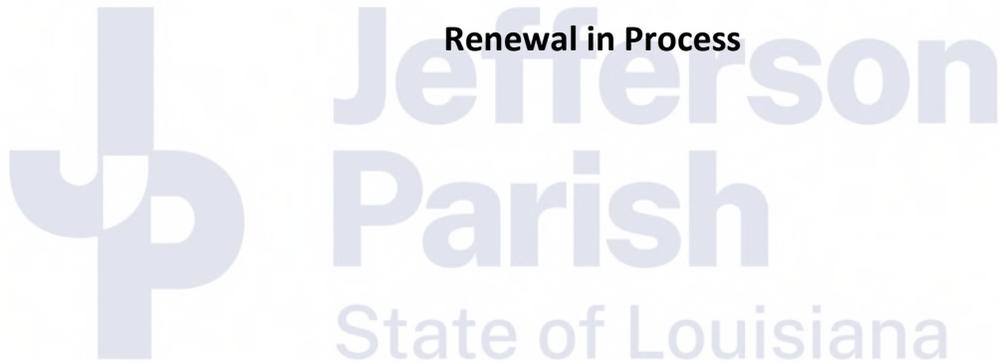
PE.0021422

Expiration Date

03/31/2024

Status: **Active**

Renewal in Process



**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

Name & Title:

**Steven Fall, PE – Senior Civil & Structural Engineer**



Project Assignment:

**Senior Civil & Structural Engineer**

Name of Firm with which associated:

**N-Y Associates, Inc.**

Years' experience with this Firm:

**16 Years**

Education: Degree(s)/Year/Specialization:

**Master of Science/1989/Engineering; Bachelor of Science/1984/Civil Engineering**

Active registration: Year first registered/discipline:

**LA (23634)/1990/Civil**

Other experience and qualifications relevant to the proposed Project:

**Mr. Fall's 40 years of Civil and Structural Engineering experience includes Offshore/Industrial projects, Bridges, and Flood Control and Drainage projects consisting of levees, floodwalls and gated flood control structures. He also has extensive experience in Design Management, Construction Project Management, Flood Plain Management, Code Enforcement & Public Works Service.**

**Coastal and Flood Protection Experience:**

**West Shore Lake Pontchartrain, WSLP-109, Levees and Floodwalls; St. John the Baptist Parish, LA:** 5580 LF of new levee, 280 LF of T-wall crossing over nine (9) pipelines, transition floodwalls tying the T-wall into the levee section, multiple T-wall monoliths up to 15' high designed to current HSDRRS criteria; and a multi-culvert crossing of the interior drainage canal at the access road.

**WSLP-114, Westshore Lake Pontchartrain Levees and Floodwalls; St. Charles and St. John the Baptist Parishes, LA:** 3000 LF of new levees and 1840 LF of new floodwalls (T-walls up to 27' high) to current HSDRRS criteria associated with the following 4 West Shore project.

**General Engineering Services IDIQ, Task Orders No. 4 & 5 – Periodic Levee Inspections for Angola and Simmesport Ring Levee Systems in West Feliciana Parish, LA and the Caernarvon to Phoenix Polder Levee System in Plaquemines Parish, LA:** Performance of Levee Safety Periodic Inspection to verify proper operation and maintenance, evaluate operational adequacy and structural stability, review design criteria to identify changes in current design standards, identify features to monitor over time, and assess the overall condition of the levee and associated drainage structures. The Angola Ring Area Levee System is 12.1 miles long and includes a drainage structure and two pump station (one electric and one diesel); The Simmesport Ring Area Levee System in 3.5 miles long and includes a drainage structure; the Caernarvon to Phoenix Polder Levee System is 22 miles long and begins at the Caernarvon Diversion structure.

**Mississippi River LNG Flood Protection Project; LA 39; Bohemia, LA (South of Pointe a la Hache):** Preparation of a Basic Engineering Design Document, White Paper, Recommended Option, Design Guide and a Risk Mitigation Analysis for flood protection of a proposed LNG facility on the Eastbank of the Mississippi River in Plaquemines Parish. The required flood protection is a 9300 LF reinforced concrete, pile supported floodwall with two 30' vehicular access swing gates, pedestrian gates, and a 70' wide stop log access for future equipment. The height of the floodwall is approximately 27' above grade in accordance with the 100 year Base Flood Elevation and USACE HSDRRS standards.

**Bayou Segnette Complex Flood Protection: Navigable Sector Gate, Floodwalls, Levee & Pump Station; Jefferson Parish, LA:** Replacement of the existing flood protection system from Bayou Segnette Pumping Station to Westwego Pumping Station No. 2 with new protection designed to the USACE Case 1 - 100 year level of protection. The Study included Alternative 1 which follows the existing flood protection alignment (T-Wall, I-Walls on levee sections & full levee section alternatives were studied) and Alternative 2 which crosses Bayou Segnette with a 50' wide navigation floodgate (mitered & sector gate alternatives were studied).

**Hurricane Protection Alignments, Westbank & Vicinity: A. Reconnaissance-Level Study, B1. WBV-72 Lake Cataouatche Levee, B2. WBV-74 Western Tie-In Closure Structure at Bayou Verret (Sellers Canal); Jefferson and St. Charles Parishes, LA: A.** Reconnaissance-level study for hurricane protection alignments, raised to FEMA 100 year future case (2057) level of protection. **B1.** 12,450 LF of earthen levee, 2 concrete access bridges, a drainage feature in the Davis Pond Guide Levee, & a new drainage path for Jefferson Parish's pump station. **B2.** A 56' wide navigable sector gate; by-pass channel; 450 LF of T-wall; 1700 LF of earthen levee; 5 gate sluice structure & permanent access road.

LICENSURE/CERTIFICATIONS: STEVEN FALL, PE



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Mr. Steven Mark Fall Sr.

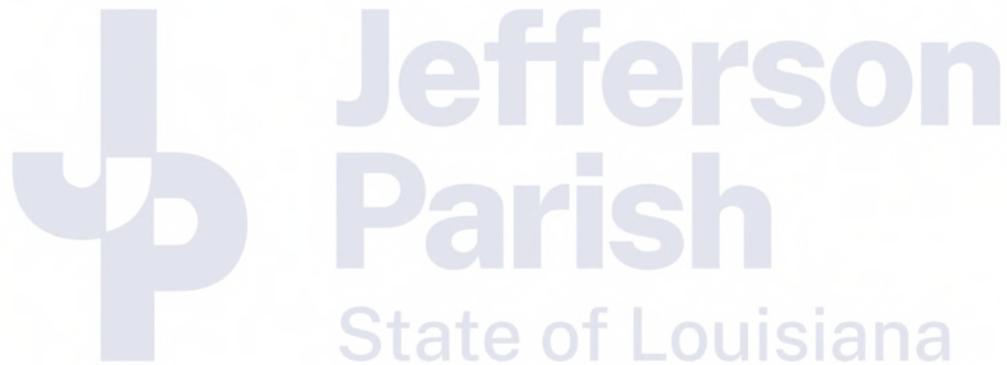
License/Certificate Type - Number

PE.0023634

Expiration Date

03/31/2026

Status: **Active**



**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

Name & Title:

**Neil D. Logan, PE – Civil & Structural Engineer**



Project Assignment:

**Senior Civil and Structural Engineer**

Name of Firm with which associated:

**N-Y Associates, Inc.**

Years' experience with this Firm:

**45 Years** (part time since 2003)

Education: Degree(s)/Year/Specialization:

**Bachelor of Science/1961/Purdue University/Civil Engineering**

Active registration: Year first registered/discipline:

**LA (14607)/1974/Civil Engineering MS (07040)/1977/Civil Engineering**

Other experience and qualifications relevant to the proposed Project:

**Mr. Logan has 63 years of engineering experience in the design and construction of flood and surge control projects. His work has included the structural design of floodwalls, drainage pumping stations, levees, and gated flood control structures.**

**Flood Protection Experience:**

**Bayou Segnette Complex Flood Protection - Navigable Sector Gate, Floodwalls, Levee & Pump Station; Jefferson Parish, LA for the USACE:** Preparation of the Design Report (Alternatives 1,2,&3); Plans & Specifications, Engineering During Construction and O&M Manual (Alternative 2) for replacing the existing flood protection system from Bayou Segnette Pumping Station to Westwego Pumping Station No. 2 with new protection designed to the USACE Case 1-100 year level of protection.

**Hurricane Protection Alignments, Westbank & Vicinity: A. Reconnaissance-Level Study, B1. WBV-72 Lake Cataouatche Levee, B2. WBV-74 Western Tie-In Closure Structure at Bayou Verret (Sellers Canal); Jefferson and St. Charles Parishes, LA: A.** Reconnaissance-level study for hurricane protection alignments, raised to FEMA 100 year future case (2057) level of protection. **B1.** 12,450 LF of earthen levee, 2 concrete access bridges, a drainage feature in the Davis Pond Guide Levee, & a new drainage path for Jefferson Parish's pump station. **B2.** A 56' wide navigable sector gate; by-pass channel; 450 LF of T-wall; 1700 LF of earthen levee; 5 gate sluice structure & permanent access road.

**Plans and Specifications for a 750 CFS Interim Pump Facility at the East of Harvey Sector Gate Structure; Jefferson Parish, LA for the USACE:** Design and Engineering during Construction of a 750 CFS interim pump station facility with pumps and engines provided by the Government.

**Fronting Protection for Estelle No. 1 (Old) and Estelle No. 2 (New) Pumping Stations; Jefferson Parish, LA:**

Preparation of the Design Report and Plans & Specifications to provide fronting protection across the entire width of the pumping station discharge areas. The designs consisted of a combination of gate and T-wall monoliths and include positive cutoff for backflow prevention using sluice gates at concrete discharge tubes and butterfly valves at steel discharge pipes. Pile supported reinforced concrete T-walls will tie the new fronting protection to the existing hurricane flood protection.

**Interim 2100 CFS Drainage Pumping Station at the 17th Street Canal for the USACE (post-Katrina):**

Design and Engineering During Construction of the pump platforms, engine buildings and discharge piping for this 2,100 cfs station. The pump station consists of two pump platforms, each consisting of six pumps located on either side of the 17th Street Canal.

**New 1200 CFS Bayou Segnette Drainage Pumping Station for Jefferson Parish, LA:**

A new 1200 CFS pumping station with two, 600 CFS horizontal pumps driven by diesel engines through gear reducers.

**1000 CFS Addition to Drainage Pumping Station No. 11 for the Sewerage & Water Board of New Orleans:**

Design, Bidding, Construction Administration and resident inspection services for a 10,000 SF pump house, two 500 CFS pumps, and related electrical/mechanical systems and controls. The project included two I-walls and one T-wall along with improvements to the levee along the Gulf Intracoastal Waterway.

**Memberships & Associations:**

- American Society of Civil Engineers
- Jefferson Parish Board of Standards and Appeals

LICENSURE/CERTIFICATIONS: NEIL LOGAN, PE



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Mr. Neil D. Logan

License/Certificate Type - Number

PE.0014607

Expiration Date

03/31/2025

Status: **Active**



Jefferson  
Parish  
State of Louisiana

**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

Name & Title:

**Fred Charles Mortali, PE – Civil Engineer**



Project Assignment:

**Civil and Hydraulic Engineer**

Name of Firm with which associated:

**N-Y Associates, Inc.**

Years' experience with this Firm:

**15 Years**

Education: Degree(s)/Year/Specialization:

**Bachelor of Civil Engineering/1989/University of Toledo/Civil Engineering**

Active registration: Year first registered/discipline:

**LA (35111)/2010/Civil Engineering MS (20103)/2011/Civil Engineering**

Other experience and qualifications relevant to the proposed Project:

**Mr. Mortali's 31 years of experience includes the design of various types of civil engineering projects including storm drainage, flood control, water, wastewater, and street projects, including particular expertise in drainage studies and H&H modeling.**

**Coastal and Flood Protection Experience:**

**➤ With N-Y**

**Brewster Road/LA 1077 Detention Pond; St. Tammany Parish, LA:** H&H Modeling utilizing SWMM & HEC-RAS and Design for a 10-acre detention pond including drainage improvements to facilitate connectivity to the pond and new subsurface drainage along Brewster Road.

**Alton Area Drainage; St. Tammany Parish, LA:** Hydraulic Modeling of Existing Conditions and Proposed Improvements to alleviate street and nuisance flooding in the Alton Subdivision, utilizing SWMM. Design for Phase I of the proposed drainage improvements.

**1077/1085 Drainage Study; St. Tammany Parish, LA:** Hydraulic Modeling of Existing Conditions and Proposed Improvements for this 12,500 acre area, utilizing HEC-RAS.

**Tantella Ranch/McGee Road Drainage Report; St. Tammany Parish, LA:** Hydraulic Modeling of Existing Conditions and Proposed Improvements for a 1,780 acre area on Tantella Ranch Road, utilizing SWMM.

**Duncan Canal Improvements at West Esplanade Avenue; Kenner, LA:** A Hydraulic Study using HEC-RAS and LDOTD Standards and Design of a 300 LF reinforced concrete box culvert to improve stormwater flow in the Duncan Canal at its intersection with Canal No. 2 at West Esplanade Avenue. Preliminary and Final Design of the 300 LF box culvert which will replace the existing bridges crossing the Duncan Canal.

**Main Street Drainage Improvements and Drainage Pumping Station; Plaquemines Parish, LA:** Mr. Mortali served as Civil and Hydraulic Engineer for new subsurface drainage improvements on Main Street and Avenue "D" including a new 50 CFS drainage pump station discharging to the Mississippi River. The project includes Environmental Clearance, Permitting and a Hydraulics and Hydrology Study utilizing SWMM computer modeling.

**Other Experience:**

**Program Management of the Eastbank FEMA Submerged Roads Program; Jefferson Parish, LA:** Program Management of \$83 million of FEMA funded concrete and asphalt street improvements. Mr. Mortali was responsible for overall program implementation including the oversight of 5 design engineers and approx. 20 construction contractors. Scope of work included providing the Parish with the necessary documentation for FEMA's Project Worksheets (PWs) – including periodic updates and re-versioning to ensure proper cost reimbursements.

**Rehabilitation and Upgrade of Twelve (12) Wastewater Lift Stations for the St. Bernard Port, Harbor and Terminal District:** Rehabilitation and upgrading of 12 wastewater lift stations to Ten States Standards and mitigation of future flooding of electric motors and controls.

**Memberships & Associations:**

- American Society of Civil Engineers
- Society of American Military Engineers

LICENSURE/CERTIFICATIONS: FRED MORTALI, PE



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**Mr. Fred Charles Mortali**

License/Certificate Type - Number	Expiration Date
<b>PE.0035111</b>	<b>03/31/2026</b>
Status: <b>Active</b>	



**PROOF OF TRAINING**  
THIS CERTIFICATE HEREBY RECOGNIZES THAT

**Fred Mortali**  
has attended  
**Louisiana Traffic Control Supervisor Refresher**  
Training Course

8/19/2023 to 8/18/2027  
Training Valid Through

New Orleans, LA  
Location

*Don M. Clark*  
Vice President of Education and Technical Services

*Shawn Tereshko*  
President, CEO

ATSSA provides training and certification but neither constitutes employment by ATSSA.



American Traffic Safety Services Association ATSSA.com

*Certificate of Attendance*  
presented to

*Fred Mortali*

for attending the

**Highway Safety Manual Workshop**  
20 Professional Development Hours

*March 8-10, 2016*

Baton Rouge, Louisiana

*Wal B. [Signature]*  
Authorized Instructor



LOUISIANA DEPARTMENT OF  
TRANSPORTATION & DEVELOPMENT



LOUISIANA TRANSPORTATION  
RESEARCH CENTER

**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

Name &amp; Title:

**William Haensel, PE, PLS – Senior Civil Engineer**

Project Assignment:

**Senior Civil Engineer**

Name of Firm with which associated:

**N-Y Associates, Inc.**

Years' experience with this Firm:

**3 Years / 53 years with Other Firms**

Education: Degree(s)/Year/Specialization:

**Bachelor of Science / 1968 / Civil Engineering****Master of Science Studies / 1968-1974 / Civil Engineering**

Active registration: Year first registered/discipline:

**LA (13375)/1972/Civil Engineering**

Other experience and qualifications relevant to the proposed Project:

**Mr. Haensel has over 50 years of experience including civil and structural engineering design of levees, floodwalls, drainage pumping stations, box culverts, building foundations and bridges. His experience also includes working for the USACE, New Orleans District in the channel stabilization branch where he was responsible for the engineering design and documentation of river revetments and shore protection for the Mississippi and Atchafalaya Rivers.**

**Roadway & Drainage Experience:**➤ **With N-Y**

**Replacement of 15 Rural Bridges, LADOTD Districts 08, 58 and 05; Winn, Grant, Natchitoches, Rapides, Vernon, Catahoula, Caldwell, Franklin and Jackson Parishes, LA:** The replacement of fifteen (15) rural bridges crossing creeks and bayous on the State Highway System in LADOTD Districts 08, 58 and 05.

➤ **With Other Firms**

**Fleur de Lis Blvd. Reconstruction: Design and Program Management (Phases I, II, and III); New Orleans, LA:** The project consisted of the complete reconstruction of 8,200 linear feet (1.5 miles) of major urban divided roadway. As required by FHWA, a NEPA environmental clearance was prepared, completed, and accepted by LADOTD and FHWA. Because the corridor was bounded by residential development, significant attention was given to pedestrian access, bike paths, and construction sequencing. The project required multiple LADOTD design exceptions because of physical constraints and preservation of trees.

**Savannah Drive; Jefferson Parish, LA:** The design of new public roadways for access to newly developed property. A stormwater detention analysis was prepared for the street to determine pipe sizes. Design included approximately 850 linear feet of new 15" and 18" reinforced concrete drain lines to serve the area.

**Henderson Street (Tchoupitoulas Street to Race Street); New Orleans, LA:** The new 1,500 foot long, four lane divided roadway to serve the \$194 million Phase IV of the New Orleans Convention Center. The design included approximately 2,500 linear feet of 15", 18", 24", and 30" diameter reinforced concrete drainpipe, 10,250 square yards of Portland Cement concrete pavement, a new 16" diameter water main, and a new 12" diameter sanitary sewer main all to serve the convention center expansion.

**Wilson Avenue Improvements (Dwyer Road to US Hwy 90/Chef Menteur Highway); New Orleans, LA:** The design and construction of 2,400 linear feet of roadway to replace an existing four lane divided Portland Cement concrete roadway. Design included new 15", 18", 24", and 30" diameter reinforced concrete drainpipe to upgrade the existing drainage collection system, and new sanitary sewer collection mains and water mains.

**West Napoleon Avenue Corridor: Design and Program Management; Jefferson Parish, LA:** A 5-mile urban aerial roadway which included a major drainage canal in an urbanized area.

**Hickory Ridge Lane and Ferriday Court; Jefferson Parish, LA:** The new public roadway access to newly developed property. A stormwater detention analysis was prepared for the streets to determine drainage pipe sizes. Design included approximately 1,800 linear feet of new 15", 18", and 24" diameter reinforced concrete drainage pipe to serve the area. Additionally, new sanitary sewer lines and a community water distribution system was included in the design of the street.

**Memberships & Associations:**

- American Society of Civil Engineers
- Society of American Military Engineers

LICENSURE: WILLIAM HAENSEL, PE, PLS



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Mr. William B. Haensel Jr.

License/Certificate Type - Number

PE.0013375

Expiration Date

03/31/2026

Status: **Active**



Jefferson  
Parish

State of Louisiana

**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

Name & Title:

**Patricia R. Claverie, EI, MS**



Project Assignment:

**Hydrology and Hydraulics Engineer / Lead H&H Modeler**

Name of Firm with which associated:

**N-Y Associates, Inc.**

Years' experience with this Firm:

**31 Year / 21 years with Other Firms**

Education: Degree(s)/Year/Specialization:

**Bachelor of Science/2000/University of New Orleans/Civil and Environmental Engineering**

**Master of Science/2003/University of New Orleans/Engineering Management**

Active registration: Year first registered/discipline:

**LA (19340)/2000/Civil EIT**

Other experience and qualifications relevant to the proposed Project:

Patricia Claverie has 24 years of experience in H&H modeling. She has extensive knowledge of ArcView, PCSWMM, SWMM5, HEC-HMS, and HEC-RAS for drainage improvements and hydraulic design for bridges and culvert design. Her experience also includes planning and engineering services for Sewer Infiltration and Inflow Management using InfoWorks and developing shape files for GIS. Ms. Claverie also is knowledgeable in roadway design, traffic control plans, signage and pavement marking plans, storm water pollution prevention plans, sanitary sewer and water line improvement plans, and hydrologic studies.

**Interior Drainage Experience:**

**Coin Du Lestin Road Elevation; Slidell, LA:** H&H Modeling utilizing HEC-RAS that illustrates the existing conditions, determines the required roadway elevations to prevent inundation in a 100-year event, evaluates the drainage impacts that will occur due to raising the roadway elevations, and provides a final recommendation.

**Replacement of 15 Rural Bridges, LADOTD Districts 08, 58 and 05; Winn, Grant, Natchitoches, Rapides, Vernon, Catahoula, Caldwell, Franklin and Jackson Parishes, LA:** H&H Modeling utilizing HEC-RAS for the replacement of fifteen (15) rural bridges crossing creeks and bayous on the State Highway System in LADOTD District 08, 58 and 05.

**Improvements to Carriage Canal and Dunleith Canal; St. Charles Parish, LA:** A new 107 LF concrete open flume at the intersection of the Carriage Canal and the Dunleith Canal to channel the two perpendicular flows into one uniform flow and a 540 LF of new sheet piles that will tie into the new concrete flume.

➤ **With Other Firms**

**Master Drainage Plan for Sewerage and Water Board of New Orleans:** Ms. Claverie was responsible for creating the hydraulic model using PCSWMM for both the existing conditions and required drainage improvements for the Algiers and English Turn areas.

**USACE – Southeast Louisiana Urban Flood Control Program (SELA), Orleans Parish, LA:** Ms. Claverie provided construction and program management services for the Sewerage and Water Board (S&WB) of New Orleans on the \$1B drainage improvement program. She coordinated the design and construction work for the S&WB between the USACE and the design A/E firms. She reviewed contract and construction documents for constructability, inputted review comments into Dr. Checks, coordinated acquisitions of rights-of-way and construction easements, and reviewed the design of the relocation of utilities. She performed computer hydraulic modeling using the XP-SWMM program for major drainage canals and systems to determine the existing conditions and required drainage improvements, evaluated water surface profiles for existing and proposed improvements, and prepared conceptual plans and preliminary construction cost estimates for various open and covered canals.

**Grays Creek, Livingston Parish, LA:** Ms. Claverie was responsible for preparing a Drainage Study for Grays Creek from Florida Boulevard (Hwy 190) to Interstate-12 in Livingston Parish. Ms. Claverie created an existing condition model in HEC-RAS for Grays Creek. In addition, the following alternatives were evaluated in the HEC-RAS proposed model: widening the channel bottom, fixing the centerline slope, adding concrete slope paving to side banks, and replacing the bridges with culverts.

**City of Lumberton Drainage Study, Lumberton, TX:** Ms. Claverie developed a hydraulic model using HEC-RAS software to design the detention ponds for two of the six drainage basins.

**Concord Road, Beaumont, TX:** Design of the reconstruction of 5 miles of roadway from 2-lanes to 4-lanes. This project also included improving the drainage for the adjacent residential areas. Ms. Claverie was responsible for completing the hydrologic studies, hydraulic design, traffic control plans, storm water pollution prevention plans, sanitary sewer and water line improvement plans, bridge layouts, ROW plans and plan-profile sheets.

**Statewide Flood Control Applications for Louisiana Avenue and General DeGaulle Canals (SELA), New Orleans, LA:** The application included Hydraulic Modeling and AutoCAD drawings. Ms. Claverie was the project engineer and was responsible for running the HEC-RAS hydraulic model, preparing the report and required spreadsheets for the application.

**Identify & Prioritize Drainage Improvements for the City of Kenner Drainage System, Kenner, LA:** Ms. Claverie aided in the development of a program to identify and prioritize needed drainage system improvements. This project included a hydraulic model, calibration to reflect existing known conditions, finalization of output data from HEC-RAS, development of a master plan report, establishment of construction cost & implementation plan, and funding alternatives.

#### Flood Protection Experience:

**US Army Corps of Engineers, MVN – Levees Section New Orleans, LA:** Ms. Claverie reviewed plans and prepared specifications for levee and other flood protection projects, analyzed cross sections and topography data, utilized CSV (Cross Section Volume) Program, located and sized borrow pits and calculated quantities for project bid items. She conducted on-site investigations to identify utilities, including pipeline facilities within project limits, which required relocation. Ms. Claverie reviewed contract A-E and in-house construction plans for format and CADD technical accuracy and standards. She also reviewed construction permits applications by others and accompanying plans and specifications to assure compliance with USACE MVN standards and to identify any conflict with current USACE MVN project objectives.

Ms. Claverie worked on the following relevant projects:

- Mississippi River Levees – Alhambra to Modeste – Iberville & Ascension Parishes, Louisiana – Levees Design including Concrete Slope Pavement
- Mississippi River Levees – Eastbank and Westbank Gaps – East Baton Rouge, St. James, St. Charles, Ascension, and Jefferson Parishes, Louisiana – Levees Design including Concrete Slope Pavement
- Lake Pontchartrain, Louisiana and Vicinity, Hurricane Protection Project – Jefferson Parish Reach 5 – 2nd Lift Levee & Bonabel Blvd Floodgate – Levees & Floodwalls Designs, Coastal Erosion Protection
- Larose to Golden Meadow Hurricane Protection Project – Sections A, D, E & F – Lafourche Parish, Louisiana – Levees Studies & Designs
- New Orleans to Venice Hurricane Protection Project – Nairn to Venice – Plaquemines Parish, Louisiana – Levees, Floodwalls & Dikes Designs, Coastal Erosion Protection
- St. Bernard Hurricane Protection Project – Verret to Caernarvon – St. Bernard Parish, Louisiana – Levees & Floodwalls Designs, Coastal Erosion Protection
- West Atchafalaya Basin Protection Levee, Item W-102, Second Levee Enlargement – St. Mary Parish, Louisiana – Levees Design
- West Bank and Vicinity, Hurricane Protection Project, Lake Cataouatche Levee Enlargement – Hwy 90 to Segnette State Park – Jefferson Parish, Louisiana – Levees Design, Coastal Erosion Protection
- West Bank and Vicinity, Hurricane Protection Project, New Westwego Pump Station to Old Orleans Village Pump Station – Second Lift – Jefferson Parish, Louisiana – Levees Design, Coastal Erosion Protection

#### Memberships & Associations:

- American Society of Civil Engineers
- Society of American Military Engineers



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**Ms. Patricia Renee' Claverie**

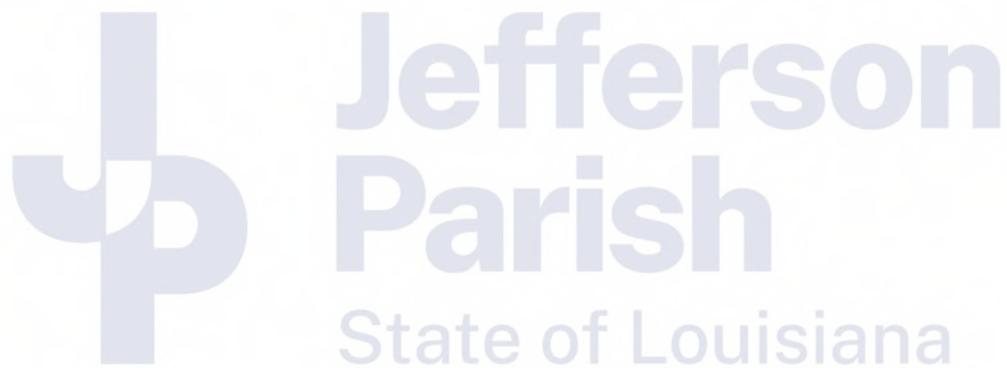
License/Certificate Type - Number

El.0019340

Expiration Date

09/30/2024

Status: **Active**



**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

Name &amp; Title:

**Dennis G. Voss, NICET, Level IV**

Project Assignment:

**Senior Engineering Technician (Civil)**

Name of Firm with which associated:

**N-Y Associates, Inc.**

Years' experience with this Firm:

**50 Years**

Education: Degree(s)/Year/Specialization:

**Associate Degree/1968/Delgado Junior College/Engineering Technology  
2 years, Engineering Studies/1962-1965/University of New Orleans**

Active registration: Year first registered/discipline:

**National Institute for Certification in Engineering Technology (54584)/1976/Engineering Technician, Level IV**

Other experience and qualifications relevant to the proposed Project:

**Coastal and Flood Protection Experience:**

**Multi-Mission Station Building, U.S. Coast Guard Station; Metairie, LA:** A new \$10.5 million, 23,000 SF building including a control center, a communications center, administrative offices, classrooms, a conference room, several berthing rooms, a physical fitness area, galley, dining area and maintenance shop. **Construction of this project included dredging of the Bucktown Harbor channel and marina to a depth of EL -8 NGVD. The dredged spoils were used to create a mitigation area consisting of man-made marsh and a 1450 LF rock dike.**

**Mississippi River Manchac Levee Enlargement; East Baton Rouge and Iberville Parishes, LA:** Raising 15,600 LF of levee to the authorized grade above the flow line and realignment of the levee centerline to salvage existing concrete slope paving within the existing right-of-way.

**1077/1085 Drainage Study; St. Tammany Parish, LA:** Hydraulic Modeling of Existing Conditions and Proposed Improvements for this 12,500 acre area, utilizing HEC-RAS.

**Tantella Ranch/McGee Road Drainage Report; St. Tammany Parish, LA:** Hydraulic Modeling of Existing Conditions and Proposed Improvements for a 1,780 acre area on Tantella Ranch Road, utilizing SWMM.

**Alton Area Drainage; St. Tammany Parish, LA:** Hydraulic Modeling of Existing Conditions and Proposed Improvements to alleviate street and nuisance flooding in the Alton Subdivision, utilizing SWMM. Design for Phase I of the proposed drainage improvements.

**Bayou Segnette Complex Flood Protection: 56' Wide Navigable Sector Gate, Floodwalls, Levee & Pump Station; Jefferson Parish, LA:** The replacement of the existing flood protection system from Bayou Segnette Pumping Station to Westwego Pumping Station No. 2 with new protection designed to the USACE Case 1 - 100 year level of protection.

**Hurricane Protection Alignments, Westbank & Vicinity: A. Reconnaissance-Level Study, B1. WBV-72 Lake Cataouatche Levee, B2. WBV-74 Western Tie-In Closure Structure at Bayou Verret (Sellers Canal); Jefferson and St. Charles Parishes, LA: A.** Reconnaissance-level study for hurricane protection alignments, raised to FEMA 100 year future case (2057) level of protection. **B1.** 12,450 LF of earthen levee, 2 concrete access bridges, a drainage feature in the Davis Pond Guide Levee, & a new drainage path for Jefferson Parish's pump station. **B2.** A 56' wide navigable sector gate; by-pass channel; 450 LF of T-wall; 1700 LF of earthen levee; 5 gate sluice structure & permanent access road.

**Mississippi River LNG Flood Protection Project, LA 39; Bohemia, LA (South of Pointe a la Hache):** Flood protection of a proposed LNG facility on the Eastbank of the Mississippi River in Plaquemines Parish. The \$175 million required flood protection is a 9300 LF reinforced concrete, pile supported floodwall with two 30' vehicular access swing gates, pedestrian gates, and a 70' wide stop log access for future equipment. The height of the floodwall is approximately 27' above grade in accordance with the 100 year Base Flood Elevation and USACE HSDRSS.

**Improvements to Suburban Drainage Canal; Sections 1, 2, 3, 4 and 5; Jefferson Parish, LA (SELA Project):** N-Y prepared preliminary plans for 3 box culverts at Interstate 10, measuring 11' x 20' feet each; 4 box culverts at Veterans Boulevard, measuring 11' x 21' each; a concrete flume section with a bottom width of 40' and a design flow of 3,000 CFS and a concrete flume section with a bottom width of 74' and a design flow of 3,600 CFS.

**Improvements to Drainage Canal No. 3; Jefferson Parish, LA (SELA Project):** Improvements to Drainage Canal No. 3 from I-10 to the Elmwood Canal consisting of an 1800 LF, 90' wide concrete flume section with side slope paving

**Jefferson Avenue Canal I, from South Claiborne Avenue to Dryades Street, for the Sewerage and Water Board of New Orleans (SELA Project):** Drainage improvements consisting of a 4400 LF covered reinforced concrete canal along Jefferson Avenue including roadway replacements and major utility relocations.

**Claiborne Avenue Manifold Canal, from LA Avenue to Jena Street for the Sewerage & Water Board of New Orleans. (SELA Project):** A single-barrel, 10’h x 24’w concrete box culvert from Jena St. to the west & a single barrel 10’ h x 14’ w concrete box culvert from Louisiana Avenue to the east, with a capacity of approx. 2000 CFS in the median of S. Claiborne Avenue (US 90).

**Duncan Canal Improvements at West Esplanade Avenue; Kenner, LA:** A Hydraulic Study using HEC-RAS and LDOTD Standards and Design of a 300 LF reinforced concrete box culvert to improve stormwater flow in the Duncan Canal at its intersection with Canal No. 2 at West Esplanade Avenue. Preliminary and Final Design of the 300 LF box culvert which will replace the existing bridges crossing the Duncan Canal.

**New Bayou Segnette Drainage Pumping Station; Westwego, LA:** A new 1,200 CFS pumping station with two (2), 600 CFS horizontal pumps driven by diesel engines through gear reducers.

**1000 CFS Addition to Drainage Pumping Station No. 11 for the Sewerage & Water Board of New Orleans:** A 10,000 SF pump house, two 500 CFS pumps, and related electrical/mechanical systems and controls. The project included two I-walls and one T-wall along with improvements to the levee along the Gulf Intracoastal Waterway.

**Hoey’s Basin Pump to the River Project; Jefferson Parish, LA:** Engineering Feasibility, Hydraulic Modeling and Conceptual Cost Estimates evaluating a new drainage pump station in the 2,400 acre Jefferson Parish portion of the 10,000 acre Hoey’s Drainage Basin. Alternatives included a 1600 CFS station (with a 13’ diameter, 5400 LF discharge force main) expandable to 2400 CFS and a 1000 CFS station with a detention pond for interim stormwater storage.

**Fronting Protection for Estelle No. 1 (Old) and Estelle No. 2 (New) Pumping Stations; Jefferson Parish, LA:** Preparation of the Design Report and Plans & Specifications to provide fronting protection across the entire width of the pumping station discharge areas.

**Jones Creek Area Drainage Improvements; Franklinton, LA:** Development of a HEC-RAS hydraulic computer model of the 213 acre Jones Creek Drainage Basin. Design, Permitting, Bidding and Construction Administration for an earthen channel measuring approx. 1500 LF and concrete flume sections measuring approx. 3800 LF to improve flow capacities on Jones Creek and the Jones Creek Lateral.

**Downtown Area Drainage Improvements; Franklinton, LA:** Development of a HEC-RAS hydraulic computer model of a 26 acre area. Design and construction administration for improvements to the area’s subsurface drainage system, which included 30” to 60” diameter reinforced concrete pipe.

**Main Street Drainage Improvements and Drainage Pumping Station; Plaquemines Parish, LA:** Mr. Mortali served as Civil and Hydraulic Engineer for new subsurface drainage improvements on Main Street and Avenue “D” including a new 50 CFS drainage pump station discharging to the Mississippi River. The project includes Environmental Clearance, Permitting and a Hydraulics and Hydrology Study utilizing SWMM computer modeling.

**Memberships & Associations:**

- American Society of Certified Engineering Technicians



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BE IT KNOWN THAT

**Dennis G. Voss**

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Engineering Technician**

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*Certificate of Attendance*

presented to

**Dennis Voss**

for attending the

**Roundabout Design Workshop  
Level 1**

and for having been awarded 12 Professional Developmental Hours

October 14-15, 2008

Baton Rouge, Louisiana

*Sandra Romero*  
Authorized By

**LTRC**  
Louisiana Transportation Research Center

**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

Name & Title:

**Chris LeMay, CADD/GIS**



Project Assignment:

**CADD/GIS Technician**

Name of Firm with which associated:

**N-Y Associates, Inc.**

Years' experience with this Firm:

**4 Year / 20 Years with Other Firms**

Education: Degree(s)/Year/Specialization:

**Associate of Science/Computer-Aided Drafting**

Active registration: Year first registered/discipline:

**N/A**

Other experience and qualifications relevant to the proposed Project:

**Coastal and Flood Protection Experience:**

➤ **With N-Y**

**West Shore Lake Pontchartrain, WSLP-109, Levees and Floodwalls; St. John the Baptist Parish, LA:** 5580 LF of new levee, 280 LF of T-wall crossing over nine (9) pipelines, transition floodwalls tying the T-wall into the levee section, multiple T-wall monoliths up to 15' high designed to current HSDRRS criteria; and a multi-culvert crossing of the interior drainage canal at the access road.

**WSLP-114, Westshore Lake Pontchartrain Levees and Floodwalls; St. Charles and St. John the Baptist Parishes, LA:** 3000 LF of new levees and 1840 LF of new floodwalls (T-walls up to 27' high) to current HSDRSS criteria associated with the following 4 West Shore project.

**Morganza to the Gulf of Mexico; Minors and Shell East Canal Floodgate Complex; Terrebonne Parish, LA:** Design of 56' wide and 125' wide barge gates including the design of temporary by-pass channels, tie in T-walls (both straight and PI monoliths), braced cofferdams, barge gate receiving structures (pile supported foundations and abutments), guide walls, pile protection clusters, and other associated work.

**Roadways and Bridges Experience:**

➤ **With N-Y**

**Five (5) New "Waskey-type" Bridges associated with the West Shore Lake Pontchartrain Flood Protection System, WSLP-114; St. Charles and St. John the Baptist Parishes, LA:** Design of five (5) new "Waskey-type" access bridges ranging in length from 60 feet to 160 feet using precast deck panels, precast pile bent caps, and precast barrier rails supported on precast concrete piles. The bridges vary in width: 24-foot, 16 foot and 12-foot clear width, gutter to gutter. The bridges are being designed for an AASHTO HS20 truck load (HL-93 loading).

**Carney Road Realignment and New Bridge; East Baton Rouge Parish, LA:** A new alignment of approx. 1 mile of Carney Road and a new 3-span bridge crossing Bayou Baton Rouge using LADTOD LG girders. The new roadway and bridge will both include two, 11' travel lanes and 8' shoulders/bicycle lanes meeting East Baton Rouge's Complete Streets requirements.

➤ **With Other Firms**

**Viola Street Widening; St. Tammany Parish, LA:** CAD drawings for the street milling, overlay and widening of lanes throughout Viola Street in St. Tammany Parish.

**HMGP Elevation of Parish Roads, Coast Guard Road; Plaquemines Parish, LA:** CAD drawings for the proposed 2-foot elevation and stabilization for Coast Guard Road using AutoCAD Civil 3D and Storm & Sanitary Analysis software from surveys, shapefiles, parcels and Hydrologic & Hydraulic (H&H Studies). Mr. LeMay also worked on creating a proposed gravity pipe network for stormwater improvements.

**Concrete Pavement Repair and Replacement; St. Bernard Parish, LA:** CAD drawings from hand sketches, field notes and manufacturer specs. Mr. LeMay assisted in the design and construction of Portland cement concrete pavement repairs in the Chalmette Vista and Buccaneer Villa neighborhoods of St. Bernard Parish.

**Asphalt Roadway Restoration; St. Bernard Parish, LA:** CAD drawings for the mill and overlay of existing asphalt roadways, base repairs and replacements, and repair or replacement of adjacent curb and gutter, driveways, and sidewalks at various locations.

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# Revit 2020 Fundamentals

24 contact hours  
November 19, 20, 23 & 24

Chris LeMay

Seminar Participant

November 24, 2020

Date of Completion



Ken Colgan, Trainer

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State of Louisiana

**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

Name &amp; Title:

**Noah Jackson, CADD**

Project Assignment:

**Senior CADD Technician**

Name of Firm with which associated:

**N-Y Associates, Inc.**

Years' experience with this Firm:

**6 Years / 18 Years with Other Firms**

Education: Degree(s)/Year/Specialization:

**Associates Degree/1985/Engineering Technology**

Active registration: Year first registered/discipline:

**N/A**

Other experience and qualifications relevant to the proposed Project:

**Drainage and Flood Control Projects:**

**WSLP-109, Westshore Lake Pontchartrain Levees and Floodwalls; St. Charles Parish, LA:** The work includes: 5580 LF of new levee, 280 LF of T-wall crossing over nine (9) pipelines, transition floodwalls tying the T-wall into the levee section, multiple T-wall monoliths up to 15' high designed to current HSDRRS criteria; and a multi-culvert crossing of the interior drainage canal at the access road.

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**Roadways and Bridges:**

**Comite River Diversion Project – US Highway 61 Railway Bridges; East Baton Rouge Parish, LA:** Design for new north bound and south bound bridges for the US Highway 61 crossing. The northbound and southbound bridges will each have a five (5) span precast prestressed girder and concrete deck, including bridge abutments, bents, superstructure and sub-structure with a 30-foot scour requirement. All work is being performed to LADOTD standards and is being reviewed by the LADOTD.

**Carney Road Realignment and New Bridge; East Baton Rouge Parish, LA:** A new alignment of approx. 1 mile of Carney Road and a new 3-span bridge crossing Bayou Baton Rouge using LADTOD LG girders. The new roadway and bridge will both include two, 11' travel lanes and 8' shoulders/bicycle lanes meeting East Baton Rouge's Complete Streets requirements.

**Five (5) New "Waskey-type" Bridges associated with the West Shore Lake Pontchartrain Flood Protection System, WSLP-114; St. Charles and St. John the Baptist Parishes, LA:** Design of five (5) new "Waskey-type" access bridges ranging in length from 60 feet to 160 feet using precast deck panels, precast pile bent caps, and precast barrier rails supported on precast concrete piles. The bridges vary in width: 24-foot, 16 foot and 12 foot clear width, gutter to gutter. The bridges are being designed for an AASHTO HS20 truck load (HL-93 loading).

**Eastbound West Metairie Replacement Bridge over the Soniat Canal; Jefferson Parish, LA:** The forty-foot spans used prestressed, precast Quad Beams, which are 18" x 18" using 8500 psi concrete and are tensioned with 0.6 diameter strands. The piles are approx. 82' in length and are 18" square, prestressed, precast concrete.

**Other Experience:**

**Sewerage and Water Board of New Orleans Resiliency Complex; New Orleans, LA:** Renovation of the existing Head House Building for use as a Safe House with renovations and structural modifications to meet the FEMA P-361 criteria for wind speeds up to 190 mph; A new "Infill Building" between the existing Head House and Engineering Complex designed to meet FEMA P-361 criteria for wind speeds up to 190 mph; and Hardening of the adjacent Engineering Complex (windows, doors and roof) to meet current IBC wind speeds up to 150 mph.

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# Revit 2020 Fundamentals

24 contact hours  
November 19, 20, 23 & 24

**Noah Jackson**

Seminar Participant

**November 24, 2020**

Date of Completion



Ken Colgan, Trainer

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State of Louisiana

**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

Name & Title:

**Johnny Thompson – Quality Assurance Representative**



Project Assignment:

**Quality Assurance Representative**

Name of Firm with which associated:

**N-Y Associates, Inc.**

Years' experience with this Firm:

**7 Years / 45 with other firms**

Education: Degree(s)/Year/Specialization:

**Associates Degree/Delgado Community College/Mechanical & Electrical Engineering and HVAC Controls**

Active registration: Year first registered/discipline:

**N/A**

Other experience and qualifications relevant to the proposed Project:

**Quality Assurance Experience:**

➤ **With N-Y**

**40 Arpent Floodwall Canal; St. Bernard Parish, LA:** Resident Inspection Services during the repair, blasting and painting of an existing 8,100 LF sheet pile wall along the 40 Arpent Levee System in St. Bernard Parish. N-Y inspected the condition of the sheet pile wall and determined the amount of visible welding and patch to be performed due to corrosion and holes in the sheet pile wall.

**Mitigation of Outfall Canal Erosion Orleans Avenue Canal for Flood Protection Authority - East; New Orleans, LA:** Resident Inspection Services during the installation of canal bank erosion mitigation measures for approx. 1.65 miles of the Orleans Avenue Canal from I-610 to Robert E. Lee Boulevard. The mitigation measures include a 37,000 SY stone-filled cellular confinement system with geotextile fabric and 6" thick compacted crushed stone, and 441 CY of riprap.

**Port of South Louisiana – DOW Chemical Railyard Expansion; St. Charles Parish, LA:** Resident Inspection Services during the construction of a five-track railyard for DOW Chemical that will accommodate 200 rail cars. (subconsultant)

**New 1<sup>st</sup> District Station for the Jefferson Parish Sheriff's Office; Jefferson Parish, LA:** Quality Assurance services for this 18,500 SF facility will include a new 9,250 SF 1st District Office elevated one story above grade; and a 9,250 SF first floor including retail space & storage for the Sheriff's Office. The 1st District Office will include offices, a meeting room, and typical support spaces (reception area, break room, toilet rooms, mechanical and electrical rooms, elevator & stairs).

**Additional Project Experience:**

➤ **With Other Firms**

**St. Charles Parish Public Works (2013-2016):** Mr. Thompson served as a Project Manager for the St. Charles Parish Department of Public Works. In this role, he was responsible for managing street, drainage, water and sewer projects of various sizes and costs.

**Resident Inspector/Site Representative, Civil & Environmental Consulting Engineers (2000-2013):** Mr. Thompson served as a resident inspection and site representative for street, drainage, water and sewer projects of various sizes and costs.

**Hydrochem Industrial Services, Inc. (1999-2000):** Mr. Thompson served as a Project Manager for Hydrochem Industrial Services, Inc. In this role, he was responsible for managing projects of various sizes and costs.

**Brown & Root Energy Services for CONOCO, Inc.; Lafayette, LA (1997 – 1999):** Mr. Thompson served as maintenance advisor for mechanical integrity, systems electrical and instrumentation for Brown & Root Energy Services for CONOCO, Inc.

**Brown & Root, Inc., Mobil Oil Co; Chalmette, LA (1996-1997):** Mr. Thompson served as a Project Superintendent for Brown & Root, Inc. for Mobil Oil Co for various Capital Projects up to \$10 million. His responsibilities included turnaround planning and execution and supplementary maintenance.

**Brown & Root, Inc., Petro-Chem Star Enterprise (TEXACO) (1995-1996):** Mr. Thompson served as a Project Superintendent for Brown & Root, Inc. for Petro-Chem Star Enterprise (TEXACO). He was responsible for the planning and scheduling of various projects.

**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

Name & Title:

**Stanley J. Mitchell - Quality Assurance Representative**



Project Assignment:

**Quality Assurance Representative**

Name of Firm with which associated:

**N-Y Associates, Inc.**

Years' experience with this Firm:

**10 Years / 28 with other firms**

Education: Degree(s)/Year/Specialization:

**Various Technical and Managerial Courses provided by Civil Service**

Active registration: Year first registered/discipline:

**N/A**

Other experience and qualifications relevant to the proposed Project:

**Quality Assurance Experience:**

➤ **With N-Y**

**Lone Star Area Sewer Rehabilitation; St. Charles Parish, LA:**

Sewer rehabilitation of 3316 LF of 8" sewer lines, 7 lateral connections at the main line and 13 manholes. The project consists of gravity sewer lining and point repairs including CIPP lining of main and lateral sewer lines, cleaning of sewer lines and post construction video inspection.

**Tchoupitoulas Corridor Signage and Striping; New Orleans, LA:**

The reinstallation/replacement of deteriorated pavement markings and intersection signage and the replacement of all damaged/missing traffic control signs on Tchoupitoulas Street from Henry Clay Avenue to Melpomene Street.

**Infrastructure Improvements for the Veterans Administration Medical Center (VAMC); New Orleans, LA:**

The complete reconstruction of the street pavement including concrete pavement and curb, crushed stone base course, sidewalks, driveways, handicapped ramps; and replacement of subsurface utilities.

**Street and Utility Reconstruction Projects for the City of New Orleans:**

Reconstruction of concrete & asphalt urban streets in the City of New Orleans. Projects also included intersection improvements, and the rehabilitation or replacement of water, sewer, and drainage utilities.

**Cattle Farm Lift Station and Force Main; City of Kenner, LA:**

4300 LF of directionally drilled 14" sewer force main and the relocation of the new cattle farm lift station. The lift station included two 6" submersible pumps and associated controls.

➤ **With Other Firms**

**Sewerage and Water Board of New Orleans (1982 – 2012):** Prior to joining N-Y, Mr. Mitchell had thirty years of experience in utilities maintenance and technical support services with the Sewerage and Water Board of New Orleans.

*During this time he was responsible for:*

- Managing and developing three (3) service departments with a staff of 123. Responsible for contract work order repairs.
- Managing projects from \$20,000 to millions of dollars in construction value.
- Reported directly to the Chief Of Networks.
- Managing inspectors' routes and overtime. Regularly monitored contracts to keep costs down.
- Conducting special analyses and cost comparisons and research reports.
- Developing innovative solutions that reduced repair costs.
- Setting up check points within a work order to manage bottlenecks and deadlines.
- Managing the testing of local water and sewer lines.
- Managing construction of line and point repairs and replacement of water and sewer lines.
- Closing work orders and conducted final inspections.
- Managing staff to monitor and inspect job sites.
- Monitoring production, distribution, data processing, and final reports.

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:			
<p><b>General Engineering Services IDIQ for the USACE, New Orleans District</b></p> <p><b>W912P8-16-D-0006, Task Order No. 2: Project Management Support for Flood Risk Consequence Data</b></p> <p><b>Owner:</b> USACE, NOD 7400 Leake Avenue New Orleans, LA 70118</p> <p><b>Contact:</b> Mr. Chris Dunn, Chief Engineer (504) 862-1799</p> 	<p>Project Management Support to ensure accurate information is gathered to support the national monetary investments made under the Flood Risk Management (FRM) business line.</p> <p>N-Y assisted MVN project managers in collecting performance measure data for 25 FRM projects throughout the MVN area of responsibility, including projects in the feasibility study, design and construction phases. N-Y is responsible for reviewing existing information for accuracy and researching missing information to provide a complete risk consequence table for each project and producing a fact sheet for each project with citations for each data field. Specific tasks include:</p> <p><b>A. Review of existing FRM Risk Consequence Data</b> Review for accuracy the existing risk consequence data for approximately 25 projects. Data to be reviewed includes: <b>Population at Risk Consequence Rating, Economic Impact Consequence Rating, Environmental Consequence Rating, Critical Infrastructure Consequence Rating, Social Vulnerability Consequence Rating, Historic Consequence Rating, Coastal Projects Consequence Rating, Condition Assessment Class, Consequence Category, Population at Risk, Population, Risk Depth, Risk Warning Time, Risk Warning Remarks and Levee Safety Impacts.</b></p> <p><b>B. Update of existing FRM Risk Consequence Data</b> Update of all required risk consequence data for the selected projects to reflect current conditions. Data (as listed above) will be updated and the source of all data collected will be cited for inclusion into Task C below.</p> <p><b>C. Fact Sheet Documentation of FRM Risk Consequence Data</b> Preparation of a final project fact sheet for each project to document the risk consequence data which will include the project name, brief project description and accurate risk consequence data.</p> <p><b>Projects reviewed under this task order include:</b></p> <ul style="list-style-type: none"> <li>▪ Alexandria to the Gulf, LA</li> <li>▪ Amite River and Tributaries – Comprehensive Study East of the MS River</li> <li>▪ St. Tammany Parish Flood Risk Management</li> <li>▪ Upper Barataria Basin, LA</li> <li>▪ Lake Pontchartrain and Vicinity, LA (Hurricane Protection)</li> <li>▪ West Bank and Vicinity, New Orleans, LA</li> <li>▪ Lafayette Parish, LA</li> <li>▪ Southwest Coastal Louisiana Hurricane Protection, LA</li> <li>▪ West Shore, Lake Pontchartrain, LA</li> <li>▪ Morganza to the Gulf, LA</li> <li>▪ Mississippi River Levees, AR, IL, KY, LA, MS, MO &amp; TN</li> <li>▪ Comite River Diversion, LA</li> <li>▪ Channel Improvement, Retevment Operations, AR, IL, KY, LA, MS, MO &amp; TN</li> <li>▪ Atchafalaya Basin, Floodway System, LA</li> <li>▪ Southeast Louisiana, LA (SELA)</li> </ul>			
<p><b>Completion Date (Actual or Estimated):</b></p> <p><b>2018</b></p>	<p><b>Estimated Cost:</b></p> <table border="1"> <tr> <td data-bbox="548 1848 1047 1953"> <p><b>Entire Project:</b></p> <p><b>\$225,000 (Fee)</b></p> </td> <td data-bbox="1047 1848 1546 1953"> <p><b>Work for which Firm was Responsible:</b></p> <p><b>100%</b></p> </td> </tr> </table>		<p><b>Entire Project:</b></p> <p><b>\$225,000 (Fee)</b></p>	<p><b>Work for which Firm was Responsible:</b></p> <p><b>100%</b></p>
<p><b>Entire Project:</b></p> <p><b>\$225,000 (Fee)</b></p>	<p><b>Work for which Firm was Responsible:</b></p> <p><b>100%</b></p>			

**PROJECT NO. 2**

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:					
<p><b>Multi-Mission Station Building, U.S. Coast Guard Station; Metairie, LA</b></p> <p><b>Owner:</b> U.S. Coast Guard Contracting Division 5505 Robin Hood Rd., Suite K Norfolk, VA 23513</p> <p><b>Contact:</b> Matt Ruckert, Lt. Commander (757) 852-3451</p>   <div data-bbox="94 1562 651 1734" style="border: 1px solid black; padding: 5px;"> <p>This facility is located on the unprotected lake side of the hurricane protection levee and sustained no significant storm surge or wind damage during Hurricane Katrina.</p> </div>	<p>Design, bidding, and construction administration for a new \$10.5 million, 23,000 SF building including a control center, a communications center, administrative offices, classrooms, a conference room, several berthing rooms, a physical fitness area, galley, dining area, and maintenance shop.</p> <p><b>Construction of the project required dredging of the Bucktown Harbor channel and marina to a depth of EL -8 NGVD. The dredged spoils were used to create a mitigation area consisting of a man-made marsh and a 1450 LF rock dike.</b></p> <p>The project included the installation of water, gas, and sewage force main lines, and the design of a 1,000 ft. asphaltic concrete access roadway over the existing levee, as well as elevating the roadway 2.5 feet higher than current grade to accommodate a future increase in levee height.</p> <p>The project also included 715 ft. of concrete sheetpile bulkhead tied back with anchor piles and a docking facility which includes three boat slips, one covered mooring, and a fueling facility.</p> <p><b>This project also included Environmental Site Assessments (ESAs), Risk Assessments, Wetlands Evaluation and Delineation, and Regulatory/Permits Research in Compliance with NEPA.</b></p>  <div data-bbox="862 1682 1503 1738" style="border: 1px solid black; text-align: center; padding: 5px;"> <p>Marsh Creation Area</p> </div>					
<p><b>Completion Date (Actual or Estimated):</b></p> <p><b>2001</b></p>	<p style="text-align: center;"><b>Estimated Cost:</b></p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td data-bbox="727 1829 1065 1898"><b>Entire Project:</b></td> <td data-bbox="1065 1829 1539 1898"><b>Work for which Firm was Responsible:</b></td> </tr> <tr> <td data-bbox="727 1898 1065 1948">\$ 10,500,000</td> <td data-bbox="1065 1898 1539 1948">100%</td> </tr> </table>		<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>	\$ 10,500,000	100%
<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>					
\$ 10,500,000	100%					

**PROJECT NO. 3**

**Project Name, Location and Owner's contact information:**

**Nature of Firm's Responsibility:**

**Bayou Sauvage Master Plan and Environmental Impact Statement; New Orleans, LA**

**Owner:**  
 U.S. Fish and Wildlife Service  
 75 Spring Street, S.W.  
 Atlanta, GA 30303

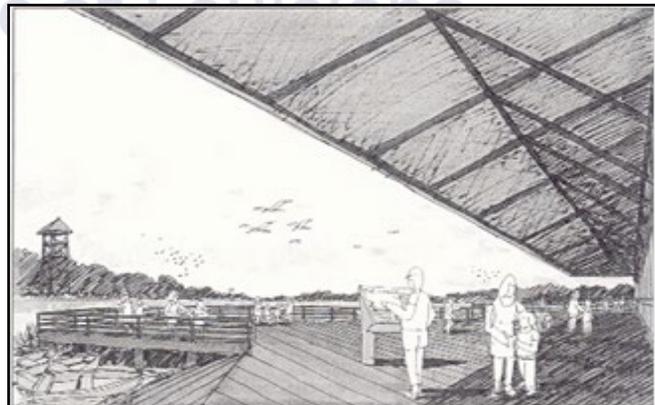
N-Y provided assistance with the preparation of a Master Plan for facility improvements and an Environmental Impact Statement for a 23,000-acre National Wildlife Refuge in Eastern New Orleans. The Master Plan contains concepts to guide further development and implementation of land use, recreation and resource management programs and associated facilities. The EIS was prepared in compliance with National Environmental Protection Act (NEPA) guidelines to document the existing natural environmental and socio-economic setting and to evaluate the impact of the master plan actions and alternatives analysis. N-Y provided these services in association with another firm.



**Bayou Sauvage Wildlife Refuge  
View of Marsh Area**



**Proposed Visitors Center Marsh Boardwalk**



**Proposed Enviro-Deck at Visitors Center**

Completion Date (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
1995	\$10,000,000	35%

**PROJECT NO. 4**

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:
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**Mississippi River Manchac Levee Enlargement; East Baton Rouge and Iberville Parishes, LA**

**Owner:**  
**USACE,**  
**New Orleans District**  
**7400 Leake Avenue**  
**New Orleans, LA 70160**

**Contact:**  
**Mr. Chris Dunn,**  
**Chief Engineer**  
**(504) 862-1799**

**Design and Engineering During Construction** for this project, which involved raising 15,600 LF of Mississippi River Levee to the authorized grade above the flow line.

Due to settlement of the levee over time, 4 ft. "TrapBags" had been added to portions of the levee crown during the 2011 Mississippi River high water event to prevent over-topping. **In order to raise the levee and not replace the existing concrete slope paving on the flood side of the levee, the levee centerline was realigned to the protected side while staying within the existing right-of-way and not disturbing the adjacent existing roadway.**

**N-Y Associates received an "Exceptional" ACASS rating for this project in the following areas:**

- Civil Engineering
- Relocations
- ROW Maps
- Engineering During Advertise
- Thoroughness of Site Investigations/Field Analysis
- Plans/Specs Accurate and Coordinated
- Plans Clear and Detailed Sufficiently
- Suitability of Design or Study Results
- Cooperativeness and Responsiveness
- Quality of Briefing and Presentations
- Implementation of Small Business Subcontracting Plan
- Quality
- Schedule
- Cost Control



Completion Date (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2014	\$5,000,000	100%

**PROJECT NO. 5**

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>General Engineering Services IDIQ for the USACE, New Orleans District</b></p> <p><b>W912P8-16-D-0006, Task Order No. 2: Levee Periodic Inspection for Angola and Simmesport Ring Levee Systems in West Feliciana Parish, LA and the Caernarvon to Phoenix Polder Levee System in Plaquemines Parish, LA</b></p> <p><b>Owner:</b> USACE, New Orleans District 7400 Leake Avenue New Orleans, LA 70160</p> <p><b>Contact:</b> Chris Dunn, PE Chief Engineer (504) 862-1799</p> <div data-bbox="157 1455 570 1766" style="border: 1px solid black; padding: 5px; margin-top: 20px;"> <p style="text-align: center;"><b>Angola Ring Levee System</b></p>  </div>	<p>Performance of Levee Safety Periodic Inspections to verify proper operation and maintenance, evaluate operational adequacy and structural stability, review design criteria to identify changes in current design standards, identify features to monitor over time, and assess the overall condition of the levee and associated drainage structures. The Field Inspection teams included four (4) registered Professional Engineers</p> <ul style="list-style-type: none"> <li>▪ The Angola Ring Area Levee System (ANGO), located in West Feliciana Parish, is 12.1 miles long and includes a drainage structure and two pump stations (one electric and one diesel).</li> <li>▪ The Simmesport Ring Area Levee System (SIMM), located in West Feliciana Parish, is 3.5 miles long and includes a drainage structure.</li> <li>▪ The Caernarvon to Phoenix Polder Levee System, located in Plaquemines Parish, is 22 miles long and begins at the Caernarvon Diversion structure. <b>N-Y received an Exceptional ACASS rating for this work.</b></li> </ul> <p>Tasks for this assignment include the following:</p> <p>Task 1: Project Plan Task 2: Kick-Off Meeting Task 3: System Documentation Collection Task 4: Design Criteria Review Task 5: Pre-Inspection Brochure Task 6: Field Inspections Task 7: Mutual Understanding Meetings Task 8: Draft Periodic Inspection (PI) Report Task 9: Independent Technical Review Task 10: Conduct PI Out-Brief for USACE Levee Safety Officer Task 11: Closeout PI</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div data-bbox="695 1507 1105 1818" style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;"><b>Simmesport Ring Levee System</b></p>  </div> <div data-bbox="1122 1507 1533 1818" style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;"><b>Caernarvon to Phoenix Polder Levee System</b></p>  </div> </div>	
<b>Completion Date (Actual or Estimated):</b>	<b>Estimated Cost:</b>	
<b>2018</b>	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
	<b>\$527,000 (Fee)</b>	<b>100%</b>

**PROJECT NO. 6**

**Project Name, Location and Owner's contact information:**

**Nature of Firm's Responsibility:**

**Coin Du Lestin Road Elevation; Slidell, LA**

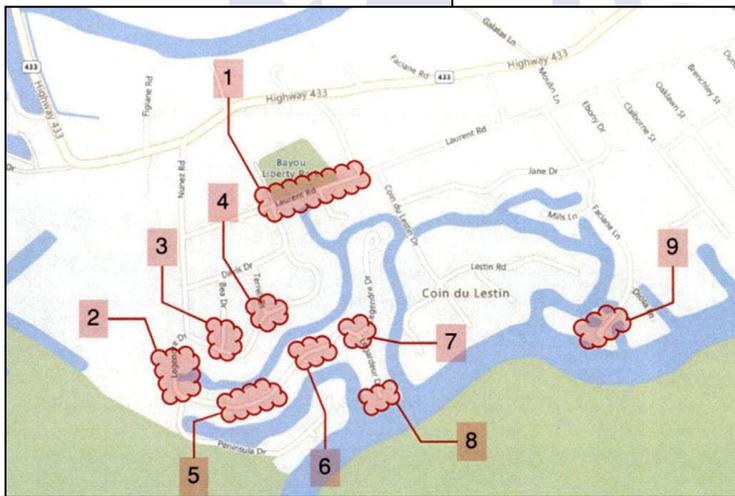
**Owner:**  
 St. Tammany Parish  
 21490 Koop Drive  
 Mandeville, LA 70471

**Contact:**  
 Daniel Hill, PE  
 Director of Engineering  
 (985) 898-2552

N-Y is evaluating the raising of several roadways in the Coin Du Lestin Estates subdivision which discharges into Bayou Bonfouca in eastern St. Tammany Parish by creating a Hydraulic and Hydrology Model (H&H Model). The H&H Model utilizes HEC-RAS and illustrates the existing conditions, determines the required roadway elevations to prevent inundation in a 100-year event, evaluates the drainage impacts that will occur due to raising the roadway elevations, and provides a final recommendation.

The work includes:

- Creating a **Hydraulic and Hydrology Model** for the following:
  - Existing Conditions for 25, 50, and 100 year storm events.
  - Determining the required roadway elevation to prevent roadway inundation in a 100-year storm event.
  - Evaluating the Drainage Impacts for both upstream and downstream that will occur due to raising the roadways elevation
  - Proposed Improvements for 25, 50, and 100 year storm events.
- **Hydraulic Design Report.**
- **Preliminary and Final Construction Plans**



**Site Plan Showing Areas that Currently Flood**



**Laurent Drive**

**Completion Date (Actual or Estimated):**

**Estimated Cost:**

2025

**Entire Project:**

**Work for which Firm was Responsible:**

\$1,600,000

100%

**PROJECT NO. 7**

**Project Name, Location and Owner's contact information:**

**Nature of Firm's Responsibility:**

**West Shore Lake Pontchartrain, WSLP 109 Levees and Floodwalls; St. John the Baptist Parish, LA**

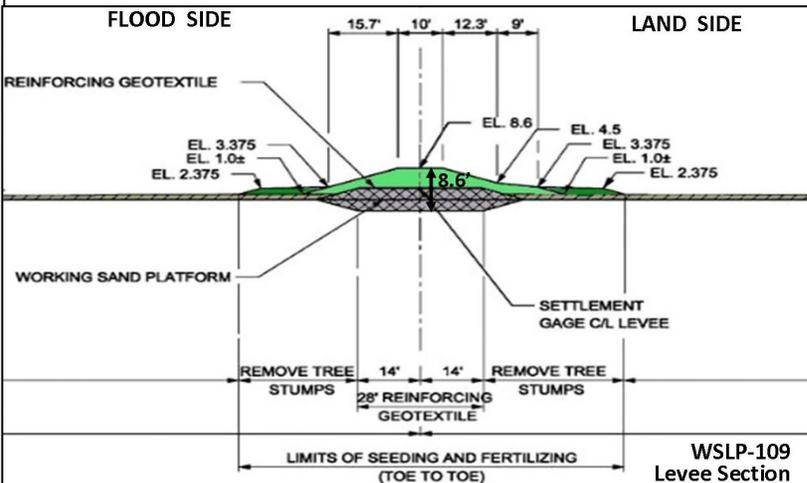
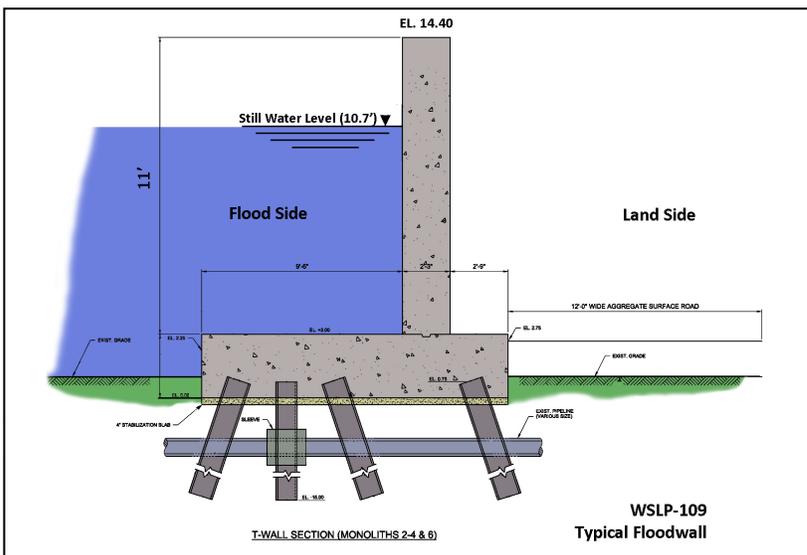
WSLP-109: A new levee and T-wall and associated work as part of the West Shore Lake Pontchartrain Hurricane and Storm Damage Risk Reduction Project.

- 5580 LF of New Levee up to 8.6' high designed to current HSDRRS criteria
- 354 LF of T-wall crossing over nine (9) pipelines
- Transition Floodwalls tying the T-wall into the Levee Section
- Multiple T-wall Monoliths up to 11' high designed to current HSDRRS criteria
- A multi-culvert crossing of the interior drainage canal at the access road

**Owner:**  
USACE, New Orleans District  
7400 Leake Avenue  
New Orleans, LA 70118

**Contact:**  
Chris Dunn, PE  
Chief Engineer  
(504) 862-1799

**N-Y Personnel:**  
F. Nicoladis, PE  
J. Simmons, PE  
M. Nicoladis, EI, MBA  
C. Nicoladis, PE  
S. Fall, PE  
R. Yokum, PE  
D. Voss, NICET  
N. Jackson, CADD/CIM  
C. LeMay, CADD



<b>Completion Date (Actual or Estimated):</b>	<b>Estimated Cost:</b>	
2026	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
	\$35,000,000	100%

<b>Completion Date (Actual or Estimated):</b>	<b>Estimated Cost:</b>	
2026	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
	\$35,000,000	100%

**PROJECT NO. 8**

**Project Name, Location and Owner's contact information:**

**Nature of Firm's Responsibility:**

**West Shore Lake  
Pontchartrain, WSLP 114  
Levees and Floodwalls;  
St. John the Baptist and St.  
Charles Parishes, LA**

**WSLP-114:** As a subconsultant to Stantec, N-Y is responsible for designing 3000 LF of new levees up to 11.5' high and 1840 LF of new floodwalls (T-walls up to 20' high) to current HSDRRS criteria associated with the following four (4) West Shore project Drainage Structures and two (2) Drainage Pumping Stations. N-Y also completed the design of five (5) new "Waskey-type" access bridges ranging in length from 60 feet to 160 feet using precast deck panels, precast pile bent caps, and precast barrier rails supported on precast concrete piles. After 90% review, three "Waskey-type" access bridges were removed and the remaining two were replaced with culverts.

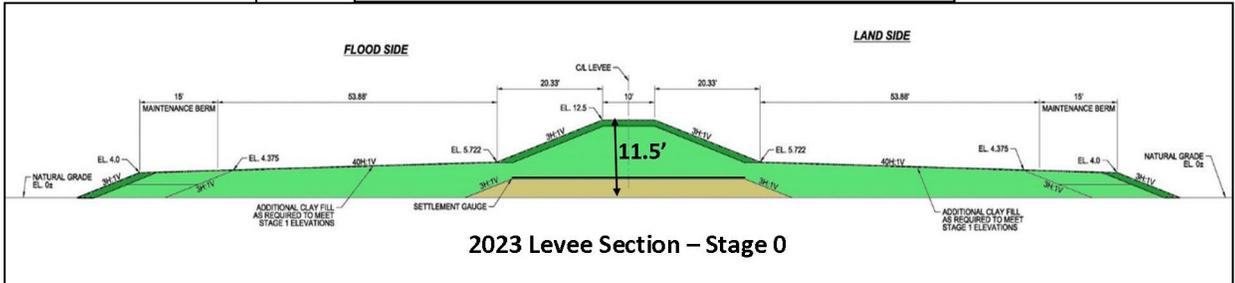
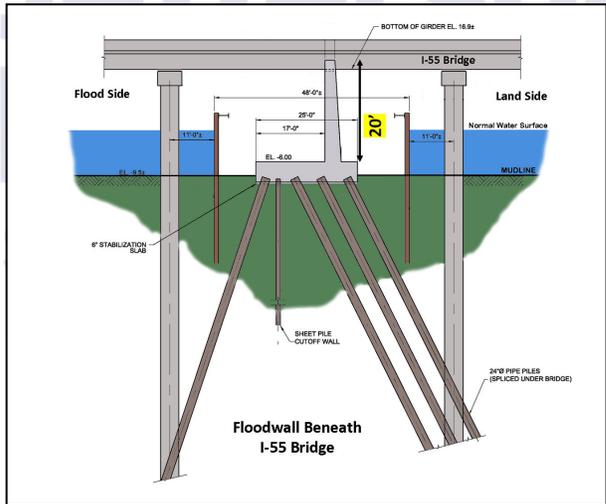
**Owner:**  
USACE, New Orleans District  
7400 Leake Avenue  
New Orleans, LA 70160

- WSLP-114:**
- Reserve Relief Canal Pump Station and Drainage Structure with 440 LF of Floodwall
  - I-55 Pump Station and Drainage Structure with 560 LF of Floodwall
  - 16' wide x 14' high Swing Gate at Reserve Relief Canal
  - Two (2) new "Waskey-type" access bridges

**Contact:**  
Chris Dunn, PE  
Chief Engineer  
(504) 862-1799

- WSLP-114A:**
- Hope Canal Drainage Structure with 440 LF of Floodwall
  - Prescott Canal Drainage Structure with 400 LF of Floodwall
  - 16' wide x 14' high Swing Gate at Prescott Canal

**N-Y Personnel:**  
F. Nicoladis, PE  
J. Simmons, PE  
M. Nicoladis, EI, MBA  
C. Nicoladis, PE  
S. Fall, PE  
R. Yokum, PE  
D. Voss, NICET  
N. Jackson, CADD/CIM  
C. LeMay, CADD



**Completion Date (Actual or Estimated):**

**Estimated Cost:**

	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>

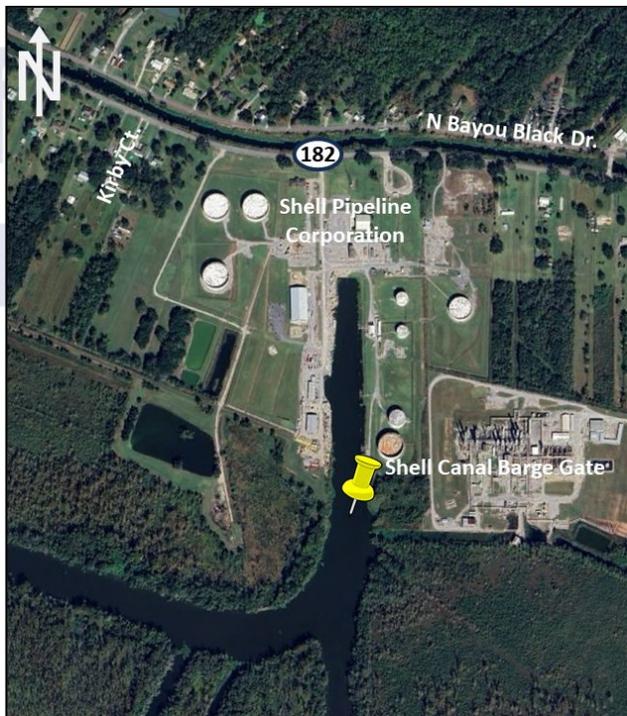
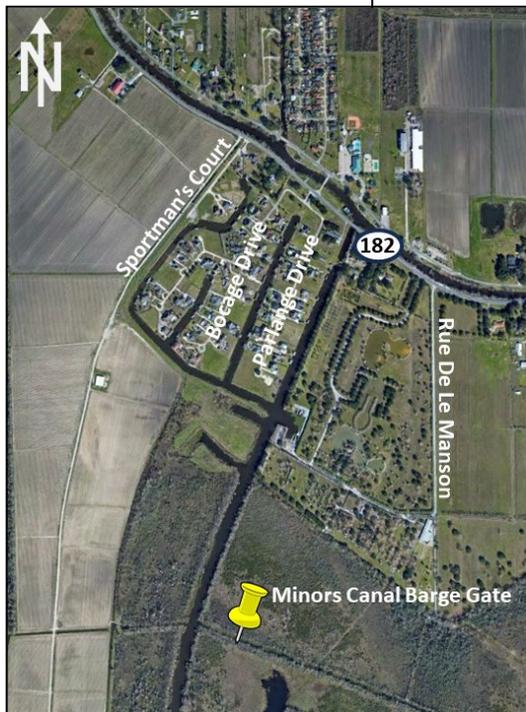
**2026**

**\$45,000,000**

**100%**

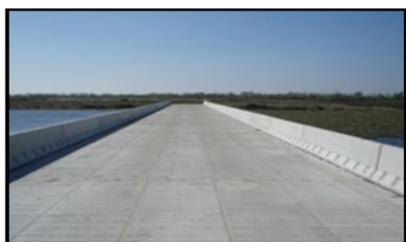
**PROJECT NO. 9**

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:
<p><b>Morganza to the Gulf of Mexico; Minors and Shell East Canal Floodgate Complex;</b>  <b>Terrebonne Parish, LA</b></p> <p><b>Owner:</b>  <b>USACE, New Orleans District</b>  <b>7400 Leake Avenue</b>  <b>New Orleans, LA 70160</b></p> <p><b>Contact:</b>  <b>Chris Dunn, PE</b>  <b>Chief Engineer</b>  <b>(504) 862-1799</b></p>	<p>Both the Shell and Minors Canal Floodgates are southwest of Houma, LA in Terrebonne Parish and are part of the Morganza to the Gulf of Mexico, Hurricane and Storm Damage Risk Reduction Project. The Shell Canal East Floodgate will be a steel barge floodgate in the levee system located approximately 5.0 miles southeast of Gibson. The Minors Canal Floodgate will also be a steel barge floodgate located west of the city of Houma.</p> <p>The work includes the design of 2 barge gates (Minors: 56 feet wide and Shell: 125 feet wide) including the design of temporary by-pass channels, tie in T-walls (both straight and PI monoliths), earthen levees, braced cofferdams, barge gate receiving structures (pile supported foundations and abutments), guide walls, pile protection clusters, and other associated work. The purpose of the floodgates is to control the risk of flooding due to storm surge or tidal events</p>



Completion Date (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2027	\$125,000,000 est.	100%

**PROJECT NO. 10**

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>W912P8-06-D-0036</b>  <b>Hurricane Protection Alignments, Westbank and Vicinity; Jefferson and St. Charles Parishes, LA</b></p> <p><b>A. Reconnaissance-Level Study for Hurricane Protection Alignments</b></p> <p><b>B1. WBV-72 Lake Cataouatche Hurricane Protection Levee</b></p> <p><b>B2. WBV-74 Western Tie-In Closure Structure at Bayou Verret (Sellers Canal) Navigable Sector Gate, Sluice Gates, Levees &amp; Floodwalls</b></p> <p><b>Owner:</b>                      USACE, New Orleans District                      7400 Leake Avenue                      New Orleans, LA 70160</p> <p><b>Contact:</b>                      Mr. Chris Dunn, PE                      Chief Engineer                      (504) 862-1799</p> 	<p><b>A. Reconnaissance-Level Study for Hurricane Protection Alignments:</b> A reconnaissance-level study for hurricane protection alignments, raised to the FEMA 100 year future case (2057) level of protection. The feasibility of interim protection was determined for the selected alternative which completed a <b>western tie-in of the Westbank and Vicinity, Lake Cataouatche Hurricane Protection Project.</b></p> <p><b>*B1. WBV-72 Lake Cataouatche Hurricane Protection Levee:</b> Design and Engineering During Construction of 12,450 LF of earthen levee, 2-concrete access bridges, a drainage feature in the Davis Pond Guide Levee, and a new drainage path for Jefferson Parish's pump station.</p> <p><b>*B2. WBV-74 Western Tie-In Closure Structure at Bayou Verret (Sellers Canal) Navigable Sector Gate, Sluice Gates, Levees &amp; Floodwalls:</b> Design and Engineering During Construction of a 56 ft. wide, navigable sector gate; by-pass channel; 450 LF of T-wall; 1700 LF of earthen levee, a 5-gate sluice gate structure and a permanent access road. N-Y also reviewed the O&amp;M Manual, which was written by the USACE.</p> <div data-bbox="560 991 922 1180" style="border: 1px solid black; padding: 5px;"> <p><b>* N-Y was the designer and professional engineer of record for this work as a subconsultant to another firm.</b></p> </div>	 <p align="center"><b>Finished Levee</b></p>  <p align="center"><b>Access Road and Levee Aerial</b></p>   <p align="center"><b>Access Road / Bridge</b></p>
<p align="center"><b>Completion Date (Actual or Estimated):</b></p>	<p align="center"><b>Estimated Cost:</b></p>	
<p align="center"><b>2012</b></p>	<p align="center"><b>Entire Project:</b></p> <p align="center">A. \$50,000,000                      B1. \$20,000,000                      B2. \$30,000,000</p>	<p align="center"><b>Work for which Firm was Responsible:</b></p> <p align="center"><b>100%</b></p>

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:	
		N-Y has no on-going legal proceedings with Jefferson

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

**SECTION N. TABLE OF CONTENTS**

- I. MINIMUM QUALIFICATIONS
- II. EVALUATION CRITERIA
  - 1. Professional Training and Experience
  - 2. Size of Firm
  - 3. Capacity for Timely Completion
  - 4. Past Performance
  - 5. Location of the Principal Office
  - 6. Adversarial Legal Proceedings
  - 7. Prior Successful Completion of Projects
- III. QUALITY ASSURANCE PROGRAM
- IV. THE N-Y ADVANTAGE

**I. MINIMUM QUALIFICATIONS**

- 1. **One Principal who is a Licensed, Registered Architect and/or Professional Engineer in the State of Louisiana:**
  - Frank Nicoladis, PE  
LA PE No. 5924, Expires 03/31/2025  
67 Years of Experience
- 2. **A Professional in Charge of the project who is a Licensed, Registered Engineer or Architect in the State of Louisiana with a minimum of five (5) years experience:**
  - James Simmons, PE  
LA PE No. 19891, Expires 09/30/2025  
47 Years of Experience
- 3. **One Employee who is a Licenses, Registered Architect or Professional Engineer in the State of Louisiana in the applicable disciplines involved. (A sub-consultant may meet the requirement only if the advertised project involves more than one discipline):**
  - Constantine F. Nicoladis, PE  
LA PE No. 27095, Expires 09/30/2025  
37 of Experience
  - Robert Yokum, PE  
LA PE No. 21422, Expires 03/31/2024  
49 Years of Experience
  - Steven Fall, PE  
LA PE No. 23634, Expires 03/31/2026  
40 Years of Experience

- Neil Logan, PE  
LA PE No. 14607, Expires 03/31/2025  
63 Years of Experience
- Fred Mortali, PE  
LA PE No. 35111, Expires 03/31/2026  
31 Years of Experience

**II. EVALUATION CRITERIA**

**1. Professional Training and Experience**

N-Y Associates, Inc. is a fifty-five (55) year-old family owned, multi-discipline firm founded and headquartered in Jefferson Parish. Offering extensive local experience, N-Y has been providing engineering, architecture, planning and project management services to federal, state, regional, parish and city agencies throughout southern Louisiana since 1969. Our staff includes civil, hydraulic and structural engineers; project managers; environmental and urban planners; construction inspectors and support personnel.

N-Y has worked extensively throughout Jefferson Parish since its inception. Our public agency clients include the Parish, the Regional Levee Boards, the Jefferson Parish School Board, the City of Kenner, LADOTD, and the Regional Planning Commission. N-Y also offers extensive local experience in the planning and design of coastal and flood protection projects, including interior stormwater drainage, hydraulics and hydrology and NEPA evaluations.

- N-Y has been the Prime A/E for seventeen (17) engineering indefinite delivery contracts for multiple agencies, including the U.S. Army Corps of Engineers New Orleans District (6 IDIQs); Vicksburg District (2 IDIQs); and Fort Worth District (3 IDIQs).
- N-Y has also worked closely with the USACE, New Orleans District providing design, bidding, EDC and QAR (resident inspection) services for several, large Southeast Louisiana Flood Control (SELA) projects for local sponsors.

➤ **Key Personnel:**

**James Simmons, PE will serve as Project Manager.** Mr. Simmons' forty-seven (47) years of experience includes extensive work on coastal and flood protection projects including feasibility studies and design of levees, floodwalls, drainage pumping stations, canals and canal stabilization, navigable gates and water control structures in environmentally sensitive coastal areas. Mr. Simmons has completed NHI Course No. 142005 "National Environmental Policy Act (NEPA) and Transportation Decision Making."

**Bruce Richards, AICP, PTP, CTP will serve as Deputy Project Manager leading the Environmental and Planning Tasks.** Mr. Richards has thirty-six (36) years of experience including the preparation of **Stage 1 Environmental Assessments, Environmental Impact Statements, and Stage 0 Feasibility Studies.** Components of these projects have included **Environmental Site Assessments (ESAs), Risk Assessments, Wetlands Evaluation and Delineation, and Regulatory/Permits Research in compliance with NEPA.** Mr. Richards has been in responsible charge of the preparation of NEPA documents by N-Y since 1999 and has completed more than twenty (20) feasibility studies, EA's or EIS's. He has completed both NHI Course No. 142005, "National Environmental Policy Act (NEPA) and Transportation Decision Making" and the course on Section 106 of the National Preservation Act Offered by the Advisory Council on Historic Preservation in 2002.

➤ **Subconsultants:**

To supplement our in-house staff, we will utilize the following subconsultant firms, each of which have extensive experience working with N-Y and in Jefferson Parish. All team members have successfully worked on similar types of projects and are familiar with local geographic conditions.

- **Chutz Surveying, Inc. will provide all required topographic, hydrographic and bathymetric surveying services. Since their inception in 1995, Chutz has been involved in an array of coastal and flood protection projects for the Coastal Protection and Restoration Authority, Corps of Engineers, Louisiana Department of Natural Resources, Louisiana Department of Transportation, private engineering firms & the general public.**

- **Eustis Engineering Services, LLC will provide any required onshore and nearshore geotechnical engineering services.** Eustis has provided innovative solutions to clients in Southeast Louisiana for more than 65 years. **Since Hurricane Katrina, Eustis Engineering has completed or continues to work on approximately 600 USACE projects providing services to Levee Districts for potentially federally funded coastal and flood protection.** Eustis has successfully worked with N-Y on all of N-Y's recent coastal and flood protection projects.
- **ELOS Environmental, LLC will provide assistance with environmental and permitting services, including biological and environmental assessments of wetlands.** An expert in regulatory affairs related to environmental permitting and compliance, ELOS environmental professionals provide data-supported analysis to federal, state and local agencies in order to secure environmental clearances, permits and authorizations in the most efficient way possible to keep projects moving forward.

N-Y is considered a leader in the engineering field. Our professional staff members keep abreast of the latest technological advances and are active members in a variety of professional organizations including:

- American Society of Civil Engineers
- Society of American Military Engineers
- Council of Engineering Companies of Louisiana
- Louisiana Engineering Society
- American Council of Engineering Companies
- American Public Works Association
- National Society of Professional Engineers
- American Concrete Institute
- Water Environment Federation
- American Waterworks Association
- National Green Infrastructure Certification
- American Planning Association
- American Institute of Architects
- Louisiana Architects Association

**2. SIZE OF FIRM**

N-Y's current staff of 24 professional and support personnel are capable of performing the type of routine engineering tasks anticipated from this contract, including project evaluation, project design, drafting of technical plans, development of technical specifications and construction administration. N-Y has the capacity to effectively perform this work with its existing staff and meet any schedules set by the Parish.

### 3. CAPACITY FOR TIMELY COMPLETION

The N-Y Team has ample capacity of personnel, computer software and equipment to provide any anticipated tasks related to this contract in a timely, efficient and cost effective manner. Taking into consideration the firm's present and projected workload, the depth of our staff will ensure that your project will progress even with normal loss of staff time due to vacations, sick leave and other absences.

### 4. PAST PERFORMANCE

#### ➤ Cost

N-Y has earned a reputation for consistently designing projects whose construction costs are within budget requirements. This record of successful construction cost control is maintained by an aggressive in-house program of monitoring each project during the concept, preliminary, & final design phase as well as during the construction phase.

The N-Y staff has considerable experience in the analysis and review of cost projections so that cost control is coordinated, and effective as evidenced by most of our recent projects where the actual bid by the general contractor has been within a few percentage points of N-Y's estimate and the owner's programmed budget.

#### ➤ Quality of Work

The quality of our services in the area of planning, design, and construction administration services has been consistently commended by our clients, including projects for the federal government and Jefferson Parish. Most of the firm's clients are repeat clients. N-Y has been working with many clients since it was established 50 years ago.

#### ➤ Compliance with Performance Schedules

N-Y has an established performance record of successfully completing design and/or construction phase services, including the coordination of the services of outside consultants, in accordance with schedules which have been approved by our clients. As a testament to its professionalism and successful project execution, N-Y has been repeatedly selected to provide professional services for many of its clients, including:

- **Jefferson Parish:** N-Y has been providing engineering services in Jefferson Parish continuously for fifty (50) years.

- **Louisiana Department of Transportation and Development:** *N-Y has been providing professional services continuously for LADOTD since 1975* for the following types of projects: *Stage 0:* Feasibility Studies, Line & Grade Studies, Environmental Inventories and Corridor Studies; *Stage 1:* Environmental Assessments; Environmental Impact Statements; and Construction Plans and Specifications for Roadway, Highway and Bridge Projects.

- **U.S. Army Corps of Engineers, New Orleans District:** N-Y met all its interim and final deadlines on over thirty (30), post-Katrina Task Orders for the USACE, New Orleans District. *As a testament to the USACE's confidence in N-Y, in 2020 N-Y was one of only four firms (and 1 of only 2 local firms) in the New Orleans District that was awarded a new five-year, General Engineering Services Indefinite Delivery contract.*

N-Y has not had any significant problems with time delays or cost overruns, except in the case of owner-requested and/or owner-approved changes to the original scope of work. **Ninety-five percent (95%) of our work is for government agencies.**

#### ➤ Public Contracts

N-Y has an excellent professional reputation with all of its clients in the south Louisiana area. The firm has provided services to virtually every public agency in the metropolitan area as well as various State and Federal agencies.

#### Regional Clients:

- **Jefferson Parish, Department of Public Works**
- **Jefferson Parish, Department of Capital Projects**
- **Jefferson Parish School Board**
- Southeast Louisiana Flood Protection – West
- Orleans Levee District
- City of Kenner
- St. Bernard Parish Government
- St. Bernard Port, Harbor and Terminal District
- St. Bernard Parish School Board
- St. Tammany Parish Government
- St. Tammany Parish School Board
- City of Slidell
- Plaquemines Parish Government
- City of New Orleans, Capital Projects Administration
- City of New Orleans, Department of Public Works
- Sewerage and Water Board of New Orleans
- New Orleans Aviation Board
- Housing Authority of New Orleans
- Orleans Parish School Board

- Port of New Orleans
- Port of South Louisiana
- St. Mary Parish Library Board
- St. Charles Parish Library Board
- St. Charles Parish, Department of Public Works
- St. John the Baptist Parish Dept. of Public Works

**State Clients:**

- LA Department of Transportation and Development
- Division of Administration, Facility Planning & Control
- LA Department of Education, Recovery School District

**Federal Clients:**

- United States Army Corps of Engineers
- United States Department of Labor
- United States Coast Guard
- Naval Support Activity, New Orleans Division
- Southern Division, Naval Facilities Engineering
- United States Postal Service
- United States Fish and Wildlife Service
- United States Department of Veterans Affairs

**5. LOCATION OF THE PRINCIPAL OFFICE**

All of N-Y's work will be performed from our local office in Jefferson Parish at 2750 Lake Villa Drive, Metairie, LA 70002.

**6. ADVERSARIAL LEGAL PROCEEDINGS**

N-Y has no on-going legal proceedings with Jefferson Parish.

**7. PRIOR SUCCESSFUL COMPLETION OF PROJECTS**

N-Y has an excellent track record of successful completion of projects and has received several Exceptional ACASS Ratings for Coastal and Flood Protection project performed for the U.S. Army Corps of Engineers, New Orleans District.

ACASS RATINGS	
Project	
100% Final Design for Manchac Levee Enlargement in East Baton Rouge and Iberville Parishes, LA	
<b>Official Comments:</b> "The A/E was easy to work with and the products were delivered on time." "N-Y Associates did an excellent job in preparing the P&S."	
	<b>RATING: EXCEPTIONAL</b>

**Engineering during Construction for Manchac Levee Enlargement in East Baton Rouge and Iberville Parishes, LA**

**Official Comments:** "Excellent quality of work." "Excellent and timely management." "Excellent work product and cost control." "Given what I know today about the contractor's ability to perform in accordance with this contract or order's most significant requirements, I would recommend them for similar requirements in the future."

**RATING: EXCEPTIONAL**

**Levee Periodic Inspection for Caernarvon to Phoenix Polder Levee System in Plaquemines Parish, LA**

**Official Comments:** "The contractor delivered excellent work product that is a valuable asset to the MVN Levee Safety Program." "Completed all tasks ahead of schedule or within the time allotted; Completed all tasks within awarded budget without the need to renegotiate." "Given what I know today about the contractor's ability to perform in accordance with this contract or order's most significant requirements, I would recommend them for similar requirements in the future."

**RATING: EXCEPTIONAL**

**Levee Periodic Inspection for Angola Ring Levee and Simmesport Ring Levee in West Feliciana Parish, LA**

**Official Comments:** "The contractor delivered excellent work product that is a valuable asset to the MVN Levee Safety Program." "Completed all tasks ahead of schedule or within the time allotted; Completed all tasks within awarded budget without the need to renegotiate." "Given what I know today about the contractor's ability to perform in accordance with this contract or order's most significant requirements, I would recommend them for similar requirements in the future."

**RATING: VERY GOOD**

N-Y also received an Exceptional Past Performance Questionnaire review from Nick Sims, Project Manager for the USACE, New Orleans District for N-Y's work on the Flood Risk Management Risk Consequence Data project (Project No. 1 in this TEC Questionnaire). This review is provided following this section.

### III. QUALITY CONTROL/ASSURANCE PROGRAM

N-Y considers quality control/assurance and technical review a critical component of our client service philosophy. N-Y's repeated selection by government agencies and private sector clients attests to the quality and consistency of our work. **N-Y has established a Quality Control/Assurance Plan which is customized to meet the individual client's needs and is overseen on each project by the Principal and Project Manager.**

We recognize that a Quality Control/Assurance Plan is only effective if a project is staffed by experienced, responsible and motivated professionals. N-Y's Quality Control/Assurance Plan includes carefully organizing the project team with the Project Manager as team leader and communicating effectively with all persons involved in the design and review processes.

- During the initial phase of the Quality Control/ Assurance process, each team member is provided with the Scope of Work to become familiar with the job and formulate any questions or concerns that they may have. Next, the team gathers for a thorough review of the supplied Scope of Work. During this review process, the team collaborates to achieve a clear understanding of the Scope of Work in its entirety. This process takes place as an open forum in which members ask questions that they may have for clarification, with each member being able to contribute their own expertise. Questions that are unable to be answered collectively as a team are documented and compiled into a list for discussion with the Owner. This meeting clarifies and/or resolves any outstanding issues upfront.
- Next, we address the assurance of compliance with any government technical manuals or documents that govern or control design activities that will be performed. A review of each of these documents is carried out, ensuring that each is the most current version. Each element of work to be performed is reviewed for compliance with these documents.
- Project timelines are created to adequately assess each phase of the project. Each phase contains key milestones, as well as completion schedules to confirm that due dates are adhered to. By utilizing these project timelines, Quality Control/Assurance issues are resolved in an efficient and timely manner and not allowed to continue into subsequent phases of the project.

- At the start of the design process, the applicable disciplines and quality assurance reviews are planned. Manhours specifically dedicated to quality assurance reviews are allocated to the project budget. Adequate time is budgeted in the project schedule for the review process and any modifications that may be required. The Quality Control/Assurance Plan is reviewed and approved by the Project Manager. The work product and submittal items of all disciplines are then reviewed prior to each submittal by **Independent Technical Reviewers (ITR)** in each discipline who are not directly involved with the project. The Project Manager also checks and reviews final work products prior to submittals to the client.

- The Principal and the Project Manager receive management information system reports of project progress. Regularly scheduled staff meetings are held, in which projects are reviewed for conformance with predetermined completion schedules. If required, schedules and staffing are promptly adjusted to ensure deadlines are met without any sacrifice in quality.

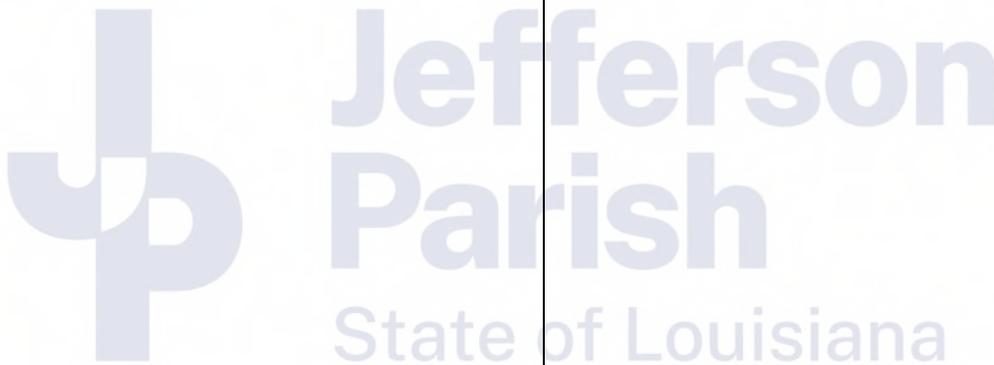
***This multi-level system of quality assurance checks and balances, including detailed reviews by Independent Technical Reviewers, submittal review by the Project Manager, and program monitoring and implementation by the Principal, is the core of N-Y's Quality Control/Assurance Plan.***

N-Y maintains, as always, its goal of adherence to client's schedules and budgets. We are constantly striving to improve our Quality Control/Assurance Plan to deliver the highest quality plans and specifications possible and to minimize changes to construction contracts.

#### IV. THE N-Y ADVANTAGE

N-Y Associates, Inc. is dedicated to providing high-quality, timely, and cost-effective professional services, strongly believing in a management system that recognizes its client's needs. N-Y strives to ensure an excellent working relationship is established with each of its clients by:

- Personally assisting the client from the very early planning stages of the project to the completion of construction;
- Having principals become personally involved in keeping the lines of communication open with the client;
- Assigning experienced project managers who offer innovative and proven solutions to meet the client's needs;
- Making every effort to ensure our resources are efficiently utilized to meet a project's schedule and adhere to a project's budget;
- Managing, Designing and/or Constructing projects that meet or exceed the client's expectations in functionality, low-maintenance, quality, and longevity.



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

Signature: \_\_\_\_\_

A handwritten signature in blue ink, appearing to read 'Michael F. Nicoladis', written over a horizontal line.

Print Name: Michael F. Nicoladis

Title: President

Date: 7/16/2024

## N-Y ASSOCIATES, INC. LICENSE

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

Name:	Public Address:
<b>N-Y Associates, Inc.</b>	Mr. Michael Nicoladis 2750 Lake Villa Drive, Suite 100 Metairie, Louisiana 70002-6797

### License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0000585	Active	09/26/1984	09/30/2025	Mr. Frank Nicoladis # PE.0005924; Mr. Constantine Frank Nicoladis #PE.0027095

**3. CHUSTZ SURVEYING, LLC**  
*(Subconsultant: Topographic, Hydrographic  
and Bathymetric Surveying)*  
**TEC Professional Services Questionnaire**



## TEC Professional Services Questionnaire

**A. Project Name and Advertisement Resolution Number:**

SOQ 24-020 Coastal Engineering Consulting Services as Needed Parish Wide

**B. Firm Name & Address:**

Chustz Surveying, LLC  
211 Richy Street  
New Roads, LA 70760

**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:**

James H. Chustz, Jr. PLS  
225-718-7103  
jchustz@chustz.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.**

N/A

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

<u>1</u> Administrative	<u>   </u> Estimators	<u>   </u> Specification Writers
<u>   </u> Architects (Licensed)	<u>   </u> Geologists	<u>   </u> Structural Engineers
<u>   </u> Chemical Engineers	<u>   </u> Geotechnical Engineers	<u>   </u> Graduate Engineers
<u>1</u> Civil Engineers	<u>   </u> Interior Designers	<u>3</u> Project Managers
<u>   </u> Construction Inspectors	<u>   </u> Landscape Architects	<u>1</u> Clerical
<u>   </u> Ecologists	<u>8</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>   </u> Environmental Engineers	
<u>5</u> Professional Land Surveyors		<u>19</u> TOTAL

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

**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      N/A

**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. N/A		
3. N/A		

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

\_\_\_\_ 27 \_\_\_\_

## 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:**

James H. Chustz Jr, PLS  
Survey Manager

**Project Assignment:**

Mr. Chustz would be responsible for the overall management of surveying services

**Name of Firm with which associated:**

Chustz Surveying, LLC

**Years' experience with this Firm:**

29

**Education: Degree(s)/Year/Specialization:**

LSU Surveying Classes

**Active registration: Year first registered/discipline:**

LA License No. 4657  
since 1992

**Other experience and qualifications relevant to the proposed Project:**

Mr. Chustz is a Registered Professional Land Surveyor in the states of Louisiana and Mississippi. He has fifty (50) years of surveying and mapping experience in Louisiana and across the South. He is an expert in GPS control surveys, topographic surveys, survey engineering, hydrographic surveys, geophysical surveys, property surveys and professional mapping just to name a few. Jimmy is a member of the Louisiana Society of Professional Surveyors, Society of American Military Engineers, American Association of Geodetic Surveying, American Congress on Surveying and Mapping and the National Society of Professional Surveyors. He is also a sitting member for surveying on the LAPELS Board.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Julian A. Chustz, PLS Project Manager
<b>Project Assignment:</b>
Mr. Chustz would be responsible for managing all data collection, processing, and final deliverables
<b>Name of Firm with which associated:</b>
Chustz Surveying, LLC
<b>Years' experience with this Firm:</b>
16
<b>Education: Degree(s)/Year/Specialization:</b>
Bachelor of Science from Nicholls State University/2012/Geomatics
<b>Active registration: Year first registered/discipline:</b>
LA License No. 5251 since 2022
<b>Other experience and qualifications relevant to the proposed Project:</b>
Mr. Chustz is a Registered Professional Land Surveyor in the state of Louisiana. He has sixteen (16) years of surveying and mapping experience in Louisiana and across the South. He has served as Party Chief of multibeam hydrographic, single beam hydrographic, conventional topographic, and geophysical survey parties. He is also an expert in offshore/nearshore/inshore hydrographic equipment calibrations, systems integration, and vessel mobilizations. He also is an expert in the use of Hypack and Qimera for multibeam processing, and Sonar Wiz for side scan sonar, magnetometer and sub-bottom profiles. Julian is a member of the Louisiana Society of Professional Surveyors, The Hydrographic Society of America, and the Society of American Engineers.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Mark Huber, CH QA/QC Supervisor Hydrographic Data Supervisor
<b>Project Assignment:</b>
Mr. Huber would be responsible for overseeing our QA/QC procedures in all aspects of surveying services. He would also be responsible for overseeing hydrographic data collection, processing, and deliverables.
<b>Name of Firm with which associated:</b>
Chustz Surveying, LLC
<b>Years' experience with this Firm:</b>
4
<b>Education: Degree(s)/Year/Specialization:</b>
High School Diploma/1 yr. UNO/General Studies
<b>Active registration: Year first registered/discipline:</b>
NSPS Certified Hydrographer No. 181/1995
<b>Other experience and qualifications relevant to the proposed Project:</b>
Mr. Huber has over forty-eight (48) years of surveying and mapping experience. He served as the USACE Topographic Surveying Community of Practice (CoP) Lead from 2008 through 2018 for the Army Geospatial Center (AGC). For the past 26+ years, he served as a USACE PROSPECT instructor for Surveying I, Surveying III, Surveying IV, Hydrographic Surveying, District Datum Coordinator, and GPS classes. Prior to that, Mark served as Chief of the New Orleans District's Survey Section, responsible for the district's surveying and mapping activities. Mark's achievements include the Achievement Medal for Civilian Service, AGC Director's Award for Excellence in Operational Support in 2014 and 2019, and the Commander's Award for Civilian Service.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b> Robbie Benoit, BGS Topographic Data Supervisor
<b>Project Assignment:</b> Mr. Benoit would be responsible for overseeing topographic data collection, processing, and deliverables, including aerial LiDAR and photogrammetry.
<b>Name of Firm with which associated:</b> Chustz Surveying, LLC
<b>Years' experience with this Firm:</b> 16
<b>Education: Degree(s)/Year/Specialization:</b> Bachelor of General Studies from the University of Louisiana, Lafayette/2023/General Studies
<b>Active registration: Year first registered/discipline:</b> N/A
<b>Other experience and qualifications relevant to the proposed Project:</b> Mr. Benoit has a Bachelor of General Studies from the University of Louisiana, Lafayette and has over thirty-five (35) years of experience in surveying and mapping and is the senior mapper. Robbie Benoit and Jimmy Chustz have a long history as a team for surveying and mapping, dating back to when they both worked for John E. Chance & Associates from 1989 through 1995. From 1995 to 2008, Mr. Chustz and Mr. Benoit still teamed up on many mapping projects. Robbie is an expert in the use of Autodesk Civil 3D, MicroStation and all aspects of mapping. He is also a licensed drone pilot and an expert in Aerial LiDAR and Photogrammetric Surveys. Mr. Benoit is a member of the Society of American Military Engineers and the Hydrographic Society of America.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b> Craig Villemarette Party Chief
<b>Project Assignment:</b> Mr. Villemarette would serve as our lead Party Chief, responsible for daily survey operations such as data collection and the safety of his crew.
<b>Name of Firm with which associated:</b> Chustz Surveying, LLC
<b>Years' experience with this Firm:</b> 24
<b>Education: Degree(s)/Year/Specialization:</b> High School Diploma
<b>Active registration: Year first registered/discipline:</b> N/A
<b>Other experience and qualifications relevant to the proposed Project:</b> Mr. Villemarette has over twenty-eight (28) years of surveying experience spent working as a Party Chief on numerous jobs across the South, primarily in southern Louisiana. Craig is an expert in all types of surveying, including topographic, hydrographic, and geophysical surveys using the latest technology. He receives annual training in multibeam, single beam, GPS, Mobile LiDAR, and boating safety. He is also certified in First Aid/CPR as all of our Party Chiefs are.

## 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

<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Automated Revetment Surveys on the Mississippi, Atchafalaya, and Red Rivers, including the Old River Control Structures  USACE New Orleans District Ralph Scheid (504) 862-2995	MVN Contract W912P8-20-C-0057: Chustz Surveying was tasked to perform the multibeam hydrographic surveys for the Automated Revetment Surveys on the Mississippi, Atchafalaya and Red Rivers including the Old River Control Channels utilizing multibeam hydrographic and real time mobile terrestrial laser scanning survey methods. A total of 127 revetment sites covering 372 river miles were surveyed for this project. All work was conducted under the supervision of a Professional Land Surveyor and Certified Hydrographer.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
July 2023	\$1.2 M	\$1.2 M

### PROJECT NO. 2

<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
M2G - Reach A Accelerated Construction Terrebonne Parish, LA  USACE New Orleans District Ralph Scheid (504) 862-2995	MVN Contract W912P8-20-D-0001; Task Order 23F0041: Chustz Surveying was tasked by the U.S. Army Corps of Engineers to perform a comprehensive survey to assist in the design of a new levee in Terrebonne Parish as part of the ongoing Morganza to the Gulf project. The required work consisted of a full topographic and hydrographic survey covering 8.2 miles of baseline through marsh, canals, lakes, and agricultural fields for the proposed levee.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
May 2023	\$378 K	\$378 K

**TEC Professional Services Questionnaire**

<b>PROJECT NO. 3</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility</b>	
New Zydeco Ridge Dike and Monitoring Surveys St. Tammany Parish, LA  USACE New Orleans District Ralph Scheid (504) 862-2995	MVN Contract W912P8-20-D-0001; Task Order 23F0146: Chustz Surveying performed a topographic survey and collected aerial imagery to assist in the monitoring of the marsh elevation and vegetation growth on site utilizing Static GPS/GNSS, RTK GPS, and hi-resolution imagery.	
<b>Completion Date (Actual or estimated)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
January 2024	\$217 K	\$217 K

<b>PROJECT NO. 4</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Reggio Marsh Creation and Hydrologic Restoration Project Reggio, LA  CPRA Travis Moore (225) 342-4737	Coastal Protection and Restoration Authority (CPRA) Contract No. 4400022832, Task Order 1 – Chustz Surveying conducted a comprehensive survey of approximately 2.7 square miles of marsh and lake, 26.6 miles of proposed dredge corridor, and HDACP monitoring at seven locations. The survey included topographic, single beam and multibeam hydrographic, magnetometer, sub-bottom profiling, and side scan sonar surveys.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
March 2023	\$262 K	\$262 K

## TEC Professional Services Questionnaire

<b>PROJECT NO. 5</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Orleans and London Ave Canal PCCP Surveys New Orleans, LA  USACE New Orleans District Ralph Scheid (504) 862-2995	MVN Contract W912P8-20-D-0001; Task Order 23F0088: Chustz Surveying performed a hydrographic survey of the Orleans and London Ave. Outflow Canals from the pump stations to 800 ft into Lake Pontchartrain for 3D modeling of the canals. The project area covered 52 acres and required both crewed and uncrewed multibeam hydrographic survey platforms due to water surface conditions.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
June 2023	\$25 K	\$25 K

<b>PROJECT NO. 6</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Post Ida Surveys Grand Isle, LA  USACE New Orleans District Ralph Scheid (504) 862-2995	MVN Contract W912P8-20-D-0001; Task Order 22F0018: Chustz Surveying was tasked by the U.S. Army Corps of Engineers to perform a post hurricane survey consisting of mobile LiDAR, aerial imagery and LiDAR, hydrographic multibeam and uncrewed single beam, static GNSS, and RTK GPS along the Grand Isle jetty system, passes, and gulf utilizing our high resolution hydrographic and uncrewed aerial systems.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
December 2021	\$199 K	\$199 K

## TEC Professional Services Questionnaire

<b>PROJECT NO. 7</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Post Ida Emergency Surveys for Multibeam and LiDAR Southern Louisiana  USACE New Orleans District Ralph Scheid (504) 862-2995	MVN Contract W912P8-20-D-0001; Task Order 21F0173: Chustz Surveying was tasked by the U.S. Army Corps of Engineers to perform emergency post hurricane surveys of the Mississippi River from River Mile 167.5 to the Gulf of Mexico and Bayou Lafourche from Mile 42 to 22 utilizing multibeam, side scan, and aerial/vessel mounted LiDAR to locate obstructions caused by the hurricane. Our crews covered 188 miles of the Mississippi River and Bayou Lafourche in just 8 days, locating, investigating, and reporting a total of 111 obstructions.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
September 2021	\$322 K	\$322 K

<b>PROJECT NO. 8</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Seepage Camp F Sand Boil Angola, LA  USACE New Orleans District Ralph Scheid (504) 862-2995	MVN Contract W912P8-20-D-0001; Task Order 20F0211: Chustz Surveying performed a topographic survey of the ring levee and proposed borrow area for the design of the seepage berm at the Louisiana State Penitentiary in Angola. The required work consisted of cross sections and profiles of both the levee and proposed borrow pit areas.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
October 2020	\$68 K	\$68 K

**TEC Professional Services Questionnaire**

<b>PROJECT NO. 9</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Cooper Bayou at Comite River Diversion East Baton Rouge Parish, LA  USACE New Orleans District Ralph Scheid (504) 862-2995	MVN Contract W912P8-20-D-0001; Task Order 20F0119: Chustz Surveying performed a topographic and hydrographic survey of Cooper Bayou and the surrounding waterways/area to help determine a path for runoff from the Comite River Diversion at the Lilly Bayou Control Structure and drain into the Profit Chute and into the Mississippi River.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
September 2020	\$280 K	\$280 K

<b>PROJECT NO. 10</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Old River Control Structures High Water Monitoring Surveys  USACE New Orleans District Ralph Scheid (504) 862-2995	MVN Contract No. W912P8-15-D-0009; Task Order 19F0129. Daily I & E Monitoring Surveys were performed at four control structures due to the 2019 high waters. These structures were the Old River Control Low Sill, Auxiliary, and Overbank Structures, and the Morganza Flood Control Structure. The surveys consisted of running digital levels through settlement marks and conducting horizontal measurement surveys with robotic total stations and data collectors at each structure with additional topographic, aerial, and hydrographic surveys of the overbanks and channels when required.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
July 2019	\$338 K	\$338 K

**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.**

Chustz Surveying (CSI) is based in New Roads, LA, and was established in 1995 primarily focused on supporting the USACE. While CSI maintains a diverse client base involving projects for the Corps of Engineers in New Orleans, Vicksburg, and Memphis, Louisiana Dept. of Natural Resources, Louisiana Dept. of Transportation and Development, the Coastal Protection and Restoration Authority, private engineering firms and the public, we are committed to delivering a quality product on or ahead of schedule. Our diversity in equipment and personnel keeps CSI connected to our continued goal, to provide a solid economical source of products and services dedicated to our client's needs. The list of services available includes Boundary, Multibeam and Single beam Hydrographic, Topographic, RTK GPS, Planimetric Surveys, Aerial Photogrammetry, Image Processing and Orthorectification, digital Orthoimagery, and Horizontal and Vertical Control, Total Stations and Data Collectors, GPS/GNSS RTK, Construction Layout, Progress Payment Surveys, As-Built Surveys, Magnetometer, Side Scan, Sub-Bottom Profiling, Digital Leveling, 3D Terrestrial LiDAR, 3D Aerial LiDAR, and any required deliverables. We have conducted these types of surveys all over the south, primarily in Louisiana land based, near shore, and offshore areas including shallow and deep water locations along with marshland areas.

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

Signature:  Print Name: James H. Chustz, Jr, PLS  
 Title: Manager Date: 07/09/2024

**CHUSTZ SURVEYING, LLC LICENSE**

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

<b>Name:</b>	<b>Public Address:</b>
<b>Chustz Surveying, L.L.C.</b>	Mr. James H. Chustz, Jr. 211 Richey Street New Roads, Louisiana 70760-3543

**License/Certificate Information w/ Supervision**

<b>License</b>	<b>Status</b>	<b>First Issuance Date</b>	<b>Expiration Date</b>	<b>Supervisor(s)</b>
VF.0000365	Active	05/23/1995	03/31/2025	Mr. James Huey Chustz Jr. # PLS.0004657

## CHUSTZ SURVEYING, LLC LICENSES



LOUISIANA PROFESSIONAL  
ENGINEERING & LAND SURVEYING BOARD  
(LAPELS)

9643 Brookline Avenue, Suite 121  
Baton Rouge, LA 70809  
Phone (225) 925-6291  
www.lapels.com

**Mr. James Huey Chustz Jr.**

License/Certificate Type - Number	Expiration Date
PLS.0004657	03/31/2026

Status: **Active**



LOUISIANA PROFESSIONAL  
ENGINEERING & LAND SURVEYING BOARD  
(LAPELS)

9643 Brookline Avenue, Suite 121  
Baton Rouge, LA 70809  
Phone (225) 925-6291  
www.lapels.com

**Mr. Julian Alexander Chustz**

License/Certificate Type - Number	Expiration Date
PLS.0005251	09/30/2025

Status: **Active**



Last updated: 2/3/2023  
**Mark W. Huber**  
Level 2 Certified Hydrographer  
mark.w.huber@att.net

### Professional Information

Chustz Surveying Inc  
Gastonia  
North Carolina  
28056 United States

**Certified  
Hydrographer:** Yes

**Hydrographer Type:** Level 2 Certified Hydrographer

**Hydrographer Number:** 181

**Hydrographer Expire  
Date:** 12/31/2024

**Hydro Status:** Active

**4. EUSTIS ENGINEERING SERVICES, LLC**  
*(Subconsultant: Geotechnical Engineering)*  
**TEC Professional Services Questionnaire**



## TEC Professional Services Questionnaire

<b>A. Project Name and Advertisement Resolution Number:</b>																													
SOQ 24-020, Resolution No. 144205 Coastal Engineering Consulting Services As-Needed Parish Wide																													
<b>B. Firm Name &amp; Address:</b>																													
<b>Eustis Engineering L.L.C.</b> 3011 28 <sup>th</sup> Street, Metairie, Louisiana 70002																													
<b>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:</b>																													
Gwendolyn P. Sanders, P.E. / President / 504-834-0157 / <a href="mailto:gsanders@eustiseng.com">gsanders@eustiseng.com</a>																													
<b>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.</b>																													
Gwendolyn P. Sanders, P.E. / President / 504-834-0157 / <a href="mailto:gsanders@eustiseng.com">gsanders@eustiseng.com</a>																													
<b>E. Please provide the number of employees whose primary function corresponds with each category:</b>																													
<table style="width: 100%; border: none;"> <tr><td style="width: 33%;">7 Administrative</td><td style="width: 33%;">Estimators</td><td style="width: 33%;">Specification Writers</td></tr> <tr><td>Architects (Licensed)</td><td>2 Geologists</td><td>Structural Engineers</td></tr> <tr><td>Chemical Engineers</td><td>17 Geotechnical Engineers</td><td>3 Graduate Engineers</td></tr> <tr><td>Civil Engineers</td><td>Interior Designers</td><td>Project Managers</td></tr> <tr><td>Construction Inspectors</td><td>Landscape Architects</td><td>11 Clerical</td></tr> <tr><td>Ecologists</td><td>Land Surveyor</td><td>Grant/Funding Specialist</td></tr> <tr><td>Electrical Engineers</td><td>Mechanical Engineers</td><td>Sanitary Engineers</td></tr> <tr><td>5 Engineer Intern</td><td>Environmental Engineers</td><td>47 Other</td></tr> <tr><td>Professional Land Surveyors</td><td></td><td>92 TOTAL</td></tr> </table>	7 Administrative	Estimators	Specification Writers	Architects (Licensed)	2 Geologists	Structural Engineers	Chemical Engineers	17 Geotechnical Engineers	3 Graduate Engineers	Civil Engineers	Interior Designers	Project Managers	Construction Inspectors	Landscape Architects	11 Clerical	Ecologists	Land Surveyor	Grant/Funding Specialist	Electrical Engineers	Mechanical Engineers	Sanitary Engineers	5 Engineer Intern	Environmental Engineers	47 Other	Professional Land Surveyors		92 TOTAL		
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Professional Land Surveyors		92 TOTAL																											
<b>F. Is this submittal is a JOINT-VENTURE? Please check: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/></b>																													
<b>If marked "No," skip to Section I. If marked "Yes," complete Sections G-H.</b>																													

**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. Not applicable.

2.

**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. Not Applicable.		
2.		
3.		

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

We estimate **16** individuals will be needed to complete the geotechnical services associated with projects under this advertisement. This includes a three-member drill crew as well as laboratory, clerical, and engineering staff. More employees can be added, as necessary, to complete any project.

**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:**

Gwendolyn P. Sanders, P.E. / President and Project Principal

**Project Assignment:**

Project Principal / Limited Liability Corporation Member

**Name of Firm with which Associated:**

**Eustis Engineering L.L.C.**

**Years’ Experience with This Firm:**

31

**Education: Degree(s)/Year/Specialization:**

Master of Science / 1992 / Civil Engineering

Bachelor of Science / 1990 / Civil Engineering

**Active Registration: Year First Registered/Discipline:**

Louisiana: 1997 / Civil Engineering

Mississippi: 2003 / Engineering

Texas: 2020 / Civil Engineering

**Other Experience and Qualifications Relevant to the Proposed Project:**

Mrs. Sanders began her professional career with Eustis Engineering in 1993. Over the past 31 years, she has worked her way up through the ranks of the engineering department including Associate Engineer, Project Engineer, Project Manager, and Engineering Manager. She has been on Eustis Engineering’s Board of Directors since 1997. In 2020, Mrs. Sanders became Eustis Engineering’s first woman president after previously serving as a Vice President and Executive Vice President. As President, she is responsible for day-to-day business operations including quality, safety, marketing, and long-term strategic growth. She also actively participates in the engineering design and review processes.

Considering her experience with Eustis Engineering, a leading Gulf Coast geotechnical firm, Mrs. Sanders has extensive experience in soft soils and working on projects in coastal Louisiana. She has been directly and indirectly involved in numerous projects throughout the Gulf Coast area, particularly in the Greater New Orleans area. Mrs. Sanders has been involved in and managed every aspect of a geotechnical engineering project, namely developing appropriate scopes of work for projects, planning and coordinating field investigations, assigning laboratory testing, performing geotechnical engineering analyses, preparing detailed reports with engineering analyses and recommendations, reviewing reports prepared by other professionals, and consulting with clients. Much of her work experience has dealt with identifying soil properties, developing criteria for design of foundations, and determining an appropriate foundation to support the structure under consideration.

In 2017, Mrs. Sanders served as program advisor for the Deep Foundations Institute’s 42<sup>nd</sup> annual conference. She has twice been named one of the 50 Women of the Year by New Orleans CityBusiness, first in 2017 and again in 2021. She is currently serving as an associate member of the ASCE Standards Committee for the Design of Foundations. She has a keen eye for detail and is a stickler for quality. Her work ethic, combined with her communication skills, translates to Mrs. Sanders’ ability to deliver successful geotechnical engineering projects to her clients.

Over the years, Mrs. Sanders has been involved with more than 2,800 projects in some capacity, including the following contained within this submittal:

- State of Louisiana - Coastal Protection and Restoration Authority (CPRA), Mid-Barataria Sediment Diversion Project, Mississippi River Mile 60.7 AHP, Vicinity of Ironton and Lafitte, Louisiana (23325.00-.11)

**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:**

Gwendolyn P. Sanders, P.E. / President and Project Principal

- State of Louisiana - Coastal Protection and Restoration Authority (CPRA), Grande Cheniere Ridge Marsh Creation Area (BA-0240), Plaquemines Parish, Louisiana (24364)
- State of Louisiana - Coastal Protection and Restoration Authority (CPRA), Grande Bayou Ridge and Marsh Restoration, Plaquemines Parish, Louisiana (24365)
- State of Louisiana - Coastal Protection and Restoration Authority (CPRA), Maurepas Diversion and West Shore of Lake Pontchartrain, St. John the Baptist Parish, Louisiana (24384.-.02)
- State of Louisiana - Coastal Protection and Restoration Authority (CPRA), Marsh Creation Projects in the Breton Sound, St. Bernard Parish, Louisiana (24431.00-.01 & 24762)
- State of Louisiana - Grand Isle State Park, Phase I and II Improvements, Jefferson Parish, Louisiana (24093.00-.01 and 25239)

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
James J. Hance, P.E. / Senior Project Manager and Vice President (Finance)
<b>Project Assignment:</b>
Senior Project Manager / Limited Liability Corporation Member
<b>Name of Firm with which Associated:</b>
<b>Eustis Engineering L.L.C.</b>
<b>Years' Experience with This Firm:</b>
20
<b>Education: Degree(s)/Year/Specialization:</b>
Master of Business Administration / 2011 / Business Administration Master of Science / 2003 / Civil Engineering (Geotechnical) Bachelor of Science / 1998 / Civil Engineering
<b>Active Registration: Year First Registered/Discipline:</b>
Louisiana: 2004 / Civil Engineering Mississippi: 2012 / Engineering Texas: 2010 / Civil Engineering
<b>Other Experience and Qualifications Relevant to the Proposed Project:</b>
<p>For 3 years, Mr. Hance was a Staff Engineer and Assistant Project Manager on numerous design and construction phase projects in the Washington D.C. metropolitan area. His duties included management of field technicians who performed concrete, asphalt, and soils testing as well as foundation construction observations of spread footings, mats, drilled shafts, augercast piles, driven steel H-piles, tiebacks, and underpinning piers.</p> <p>After relocating to Austin, Texas, to eventually pursue graduate studies in engineering, Mr. Hance acted as an assistant project engineer for several design phase projects. These projects involved retention and stream bank stabilization applications. The types of systems designed included mechanically stabilized earth (MSE), single and multi-tiered walls and slopes utilizing geogrid reinforcement, and the use of geosynthetic materials in engineering applications such as erosion control solutions for open channel flow conditions.</p> <p>Mr. Hance was a graduate research assistant at the University of Texas at Austin where he published his Master's thesis in association with a Master of Science in Civil Engineering degree: <i>Assessment of Seafloor Slope Stability Based on a Database of Published Submarine Slope Failures</i>.</p> <p>Mr. Hance has spent the past 20 years with Eustis Engineering and has worked on many projects for Jefferson Parish. During his tenure at Eustis Engineering, he has earned four promotions: Project Engineer (July 2004), Project Manager (November 2007), Vice President (August 2011), and Chief Financial Officer (August 2012). Mr. Hance manages geotechnical services associated with commercial, industrial, environmental, and civil works projects. His responsibilities include managing a wide variety of design and construction phase projects (public and private sectors), management of staff engineers and development of their skill assets, developing scopes of work and appropriate fees for new projects with clients, participating in business development and marketing ventures, and negotiating contracts.</p> <p>Some of his experience relative to this submittal includes the following:</p> <ul style="list-style-type: none"><li>• State of Louisiana - Coastal Protection and Restoration Authority (CPRA), Bayou Dularge Ridge, Marsh, and Hydrologic Restoration Project, Terrebonne Parish, Louisiana (23970.00, .01)</li></ul>

**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

**Name & Title:**

James J. Hance, P.E. / Senior Project Manager and Vice President (Finance)

- State of Louisiana - Coastal Protection and Restoration Authority (CPRA), Mid-Barataria Sediment Diversion Project, Mississippi River Mile 60.7 AHP, Vicinity of Ironton and Lafitte, Plaquemines and Jefferson Parishes, Louisiana (23325.00-.11)
- Jefferson Parish - Upper Barataria Terracing Project, Jefferson Parish, Louisiana (25108)
- State of Louisiana - Coastal Protection and Restoration Authority (CPRA), Grande Cheniere Ridge Marsh Creation Area, Plaquemines Parish, Louisiana (24364)
- State of Louisiana - Coastal Protection and Restoration Authority (CPRA), Grand Bayou Ridge and Marsh Restoration, Plaquemines Parish, Louisiana (24365)
- State of Louisiana - Coastal Protection and Restoration Authority (CPRA), Maurepas Diversion and West Shore of Lake Pontchartrain, St. John the Baptist Parish, Louisiana (24384.00 -.02)
- State of Louisiana - Coastal Protection and Restoration Authority (CPRA), Marsh Creation Projects in the Breton Sound, St. Bernard Parish, Louisiana (24431.00-.01 & 24762)
- State of Louisiana - Grand Isle State Park, Phase I and II Improvements, Jefferson Parish, Louisiana (24093.00-.01 and 25239)
- State of Louisiana – Department of Wildlife and Fisheries, Marsh Island Refuge Water Control Structure Replacements, Belly Dam, Joe Aucoin, and Northeast Bird Island, Iberia Parish, Louisiana (24170.00- .01)

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Sean G. Walsh, P.E. / Engineering Manager and Vice President (Engineering)
<b>Project Assignment:</b>
Project Manager
<b>Name of Firm with which Associated:</b>
<b>Eustis Engineering L.L.C.</b>
<b>Years' Experience with This Firm:</b>
11
<b>Education: Degree(s)/Year/Specialization:</b>
Master of Science / 2010 / Civil Engineering Bachelor of Science / 2007 / Civil Engineering
<b>Active Registration: Year First Registered/Discipline:</b>
Louisiana: 2013 / Civil Engineering
<b>Other Experience and Qualifications Relevant to the Proposed Project:</b>
<p>For his first 5 years after graduation, Mr. Sean G. Walsh, P.E., was a Project Engineer on numerous projects in New York and the New Orleans metropolitan area where he gained experience in civil, geotechnical, and geo-environmental engineering projects for a variety of public and private clients.</p> <p>Since joining Eustis Engineering in 2012 as a Project Engineer, Mr. Walsh has been responsible for developing and managing engineering package preparations (e.g., engineering design and analysis, reporting, developing construction and permit drawings, contract specifications, cost estimates, and design reporting) for a diverse range of design and analysis projects, including deep foundations, excavation support systems, utility foundations, slope stabilization, solid waste closure systems, levee inspection/safety, and seepage modeling.</p> <p>Mr. Walsh was promoted to Project Manager in 2017, Engineering Manager in 2019, and Vice President in 2020. Mr. Walsh is also a graduate of the 2017 New Orleans Regional Leadership Institute (NORLI), a 1-year training program designed to help shape community leaders.</p> <p>During his employment with Eustis Engineering, Mr. Walsh has provided engineering services on more than 650 projects. Mr. Walsh has risen to the level of Vice President and Engineering Manager, in which he is responsible for personnel resource allocation, the overall engineering schedule, and execution of engineering services. Mr. Walsh also functions as a mentor to the engineering staff.</p> <p>A large portion of Mr. Walsh's experience, before and after joining Eustis Engineering, involved development of design and construction recommendations associated with flood protection systems in southeastern Louisiana. Mr. Walsh has served as the project engineer and project manager responsible for the development and implementation of geotechnical exploration programs; development of soil testing laboratory programs; and interpretation of the results to evaluate strength, compressibility, and general soil characterization. Mr. Walsh used these data for geotechnical designs comprising pile capacity curves; bearing capacity analyses; cantilever retaining analyses; anchored retaining wall analyses; temporary retaining structure design; time-settlement projections for earthen levees with lift schedules; soil pressure profiles; structural and earthen levee under seepage analyses; levee and bank stability by Spencer's Method of Slices and Method of Planes; reinforced embankment design; stability analyses of flood protection walls (e.g., T-walls, I-walls, L-walls, and braced 'A-Frame' walls); downdrag and settlement analyses; settlement induced bending moments (SIBM) in foundation piles; piping analyses; uplift analyses; heave analyses; three-dimensional modeling of fill and structural load placements for predictions of time-rate settlements of foundation systems; and</p>

## KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

### Name & Title:

Sean G. Walsh, P.E. / Engineering Manager and Vice President (Engineering)

numerical modeling of soil-structure interaction (SSI) of flood protection structures by the finite element method (FEM).

Mr. Walsh has also worked on many local government projects in towns and cities including New Orleans, Golden Meadow, and Kentwood; numerous projects in Jefferson, Orleans, St. Bernard, St. Charles, and Plaquemines Parishes; several Port Commissions (e.g., Baton Rouge, New Orleans, South Louisiana); the Sewerage & Water Board of New Orleans; etc.

Regardless of the types of projects engineered for these agencies, his responsibilities have remained the same, namely defining the project philosophy; developing and maintaining the schedule; providing status reports to clients; controlling expenditures; overseeing project personnel; and reviewing the project design for compliance with engineering principles, company standards, and client requirements. He is hands-on in coordinating activities concerned with technical developments and in resolving engineering design/test problems.

Mr. Walsh's skills over the past 16 years in the industry have developed exponentially with the variety of projects that have crossed his desk. Regarding this submittal, Mr. Walsh has been directly involved with the following projects:

- State of Louisiana – Coastal Protection and Restoration Authority, Bayou Dularge Ridge, Marsh, and Hydrologic Restoration Project, Terrebonne Parish, Louisiana (23970.00, .01)
- State of Louisiana – Coastal Protection and Restoration Authority, Mid-Barataria Sediment Diversion Project, Mississippi River Mile 60.7 AHP, Vicinity of Ironton and Lafitte (Plaquemines and Jefferson Parishes), Louisiana (23325.00 - .11)
- Jefferson Parish – Upper Barataria Terracing Project, Jefferson Parish, Louisiana (25108)
- State of Louisiana – Coastal Protection and Restoration Authority (CPRA), Grand Bayou Ridge and Marsh Restoration, Plaquemines Parish, Louisiana (24365)
- State of Louisiana - Coastal Protection and Restoration Authority (CPRA), Maurepas Diversion and West Shore of Lake Pontchartrain, St. John the Baptist Parish, Louisiana (24384.00, .01)
- State of Louisiana - Coastal Protection and Restoration Authority (CPRA), Marsh Creation Projects in the Breton Sound, St. Bernard Parish, Louisiana (24431.00-.01 & 24762)
- State of Louisiana - Grand Isle State Park, Phase I and II Improvements, Jefferson Parish, Louisiana (24093.00 - .01, 25239)
- State of Louisiana, Department of Wildlife and Fisheries - Marsh Island Refuge Water Control Structure Replacements, Belly Dam, Joe Aucoin, and Northeast Bird Island, Iberia Parish, Louisiana (24170.00 - .01)

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
James M. Williams, P.E. / Geotechnical Project Engineer
<b>Project Assignment:</b>
Project Engineer
<b>Name of Firm with which Associated:</b>
<b>Eustis Engineering L.L.C.</b>
<b>Years' Experience with This Firm:</b>
6
<b>Education: Degree(s)/Year/Specialization:</b>
Master of Science / 2018 / Civil Engineering Bachelor of Science / 2016 / Civil Engineering
<b>Active Registration: Year First Registered/Discipline:</b>
Louisiana: 2021 / Civil Engineering
<b>Other Experience and Qualifications Relevant to the Proposed Project:</b>
<p>While an undergraduate at Mississippi State University, Mr. Williams worked as both an Undergraduate Research Assistant and a Soils Laboratory Assistant. As an Undergraduate Research Assistant, Mr. Williams created a database of historic test results related to off-road vehicular mobility. He completed a statistical analysis of the database results and developed empirical relations. As a Soils Laboratory Assistant, Mr. Williams organized and instructed undergraduate student teaching exercises. He also prepared test specimens for research and teaching practices.</p> <p>As a Graduate Research Assistant, Mr. Williams continued to work with a database of historic test results. He conducted laboratory exploration of soil and soil-biochar mixture properties through standard procedures including particle size, triaxial shear testing, consolidation testing, and permeability testing. He also employed microscopy and chemical techniques to determine qualitative information related to the mineralogy and microstructure of earthen material.</p> <p>As a Project Engineer for Eustis Engineering L.L.C., Mr. Williams coordinates site access, assigns laboratory tests, and performs geotechnical engineering analyses and evaluations. Engineering analyses may include estimates of allowable bearing values; estimates of allowable pile load capacity for various types and sizes of piles; pile response to vertical and lateral loading; slope stability analyses of riverbanks, levees, and earthen structures; sheetpile wall design; wick drainage design; and settlement estimates. Mr. Williams has developed a proficiency with engineering programs such as LPILE® and GROUP® by Ensoft, Inc.; SLOPE/W by GeoStudio; Settle3 by Rocscience Inc.; and PSSDF by Timothy Stark, PhD and Hangseok Choi, PhD. He also provides technical assistance to our laboratory manager for planning, processing, and review of advanced laboratory testing. Currently, Mr. Williams is also working with the Vice President of Testing on Eustis Engineering's OpenGround® and KeyLAB® implementation.</p> <p>Mr. Williams' skills and understanding of the soft soil behavior of coastal Louisiana have developed exponentially with the variety of projects that have crossed his desk. Regarding this submittal, Mr. Williams has been directly involved with the following projects:</p> <ul style="list-style-type: none"><li>• State of Louisiana - Coastal Protection and Restoration Authority (CPRA), Bayou Dularge Ridge, Marsh, and Hydrologic Restoration Project, Terrebonne Parish, Louisiana (23970.00, .01)</li><li>• Grand Isle Independent Levee District - Preliminary Study, Fifi Island Rock and Restoration Project, Jefferson Parish, Louisiana (25128)</li></ul>

**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

**Name & Title:**

James M. Williams, P.E. / Geotechnical Project Engineer

- State of Louisiana - Coastal Protection and Restoration Authority (CPRA), Mid-Barataria Sediment Diversion Project, Mississippi River Mile 60.7 AHP, Vicinity of Ironton and Lafitte, Plaquemines and Jefferson Parishes, Louisiana (23325.00-.11)
- State of Louisiana - Coastal Protection and Restoration Authority (CPRA), Grand Bayou Ridge and Marsh Restoration, Plaquemines Parish, Louisiana (24365)
- State of Louisiana - Coastal Protection and Restoration Authority (CPRA), Maurepas Diversion and West Shore of Lake Pontchartrain, St. John the Baptist Parish, Louisiana (24384.00 -.02)
- State of Louisiana - Coastal Protection and Restoration Authority (CPRA), Marsh Creation Projects in the Breton Sound, St. Bernard Parish, Louisiana (24431.00 - .01 & 24762)
- State of Louisiana - Grand Isle State Park, Phase I and II Improvements, Jefferson Parish, Louisiana (24093.00-.01 & 25239)
- State of Louisiana – Department of Wildlife and Fisheries, Marsh Island Refuge Water Control Structure Replacements, Belly Dam, Joe Aucoin, and Northeast Bird Island, Iberia Parish, Louisiana (24170.00 - .01)

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Henry C. Worley, P.E. / Geotechnical Project Engineer
<b>Project Assignment:</b>
Project Engineer
<b>Name of Firm with which Associated:</b>
<b>Eustis Engineering L.L.C.</b>
<b>Years' Experience with This Firm:</b>
6
<b>Education: Degree(s)/Year/Specialization:</b>
Master of Science / 2022 / Engineering Bachelor of Science / 2016 / Civil Engineering 2019 / Coastal Engineering Certificate
<b>Active Registration: Year First Registered/Discipline:</b>
Louisiana: 2021 / Civil Engineering
<b>Other Experience and Qualifications Relevant to the Proposed Project:</b>
<p>Mr. Worley received his Master of Science degree in Engineering with a focus in geotechnical and coastal engineering in 2022. For this degree, he researched consolidation testing parameters and correlations typically implemented in local practice. Mr. Worley worked at Eustis Engineering in the summer of 2015 as a student intern and returned as an assistant engineer after working for the State of Louisiana, Coastal Protection and Restoration Authority (CPRA) and others after receiving his undergraduate degree. Over the past 7 years, he has worked on a number of coastal restoration and flood protection projects for CPRA, the U.S. Department of Agriculture's Natural Resources Conservation Service (USDA NRCS), and Ducks Unlimited.</p> <p>Engineering analyses associated with these coastal engineering projects include evaluation of global and local slope stability, estimating allowable soil bearing values, estimating the total and time-rate of settlement due to fill placement and structural loads, and shallow and deep foundation evaluations. He continues to hone his knowledge with computation software such as LPILE®, GROUP®, Settle3, SLOPE/W, PSDDF, and the U.S. Army Corps of Engineers' CWALSHT.</p> <p>Mr. Worley has direct involvement with the following projects relevant to this submittal:</p> <ul style="list-style-type: none"><li>• State of Louisiana - Coastal Protection and Restoration Authority (CPRA), Bayou Dularge Ridge, Marsh, and Hydrologic Restoration Project, Terrebonne Parish, Louisiana (23970.00, .01)</li><li>• State of Louisiana - Coastal Protection and Restoration Authority (CPRA), Mid-Barataria Sediment Diversion Project, Mississippi River Mile 60.7 AHP, Vicinity of Ironton and Lafitte, Plaquemines and Jefferson Parishes, Louisiana (23325.00-.11)</li><li>• Jefferson Parish - Upper Barataria Terracing Project, Jefferson Parish, Louisiana (25108)</li><li>• State of Louisiana - Coastal Protection and Restoration Authority (CPRA), Grande Cheniere Ridge Marsh Creation Area, Plaquemines Parish, Louisiana (24364)</li><li>• State of Louisiana - Coastal Protection and Restoration Authority (CPRA), Grand Bayou Ridge and Marsh Restoration, Plaquemines Parish, Louisiana (24365)</li></ul>

**PROJECT NO. 01**

**Project Name, Location, and Owner's Contact Information:**

**Nature of Firm's Responsibility:**

**State of Louisiana  
Coastal Protection and Restoration Authority  
(CPRA)  
Bayou DuLarge Ridge, Marsh, and Hydrologic  
Restoration Project  
Terrebonne Parish, Louisiana  
Eustis Engineering Project Nos. 23970.00 - .01**

**Contact Information:**  
USDA – NRCS Through  
Sigma Consulting Group, Inc.  
10305 Airline Highway  
Baton Rouge, Louisiana 70816  
Robert Lear, P.E. @ 225-298-0800  
[rlear@sigmacg.com](mailto:rlear@sigmacg.com)

This restoration project in Terrebonne Parish is located on the lower end of Bayou DuLarge between Lake Merchant and Caillou Lake. The project will use borrow material from Lake Merchant to create and nourish marsh on the southern side of Bayou DuLarge, restore the ridge along the southern bank line of Bayou DuLarge, and reestablish historic hydrologic and salinity conditions by installing a structure that reduces the cross-section of Grand Pass and the intrusion of Gulf marine waters into the project area.

Eustis Engineering's role in this project included obtaining 45 undisturbed soil borings and cone penetration tests (CPTs) using airboat-mounted equipment and truck-mounted equipment positioned on a jack-up barge. The borings and CPTs extended to depths of 40 to 50 feet below the mudline for the marsh and ridge locations and 120 to 150 feet below the mudline for the Grand Pass structure. The airboat was used whenever possible to minimize detrimental impacts to the marsh environment.

Samples obtained from the soil borings were subjected to soil mechanics laboratory tests in accordance with ASTM standards. Testing consisted primarily of classification tests. Beyond these tests, bulk samples of soil dredged from the borrow source were used to conduct settling column tests and self-weight consolidation tests.

Eustis Engineering published a geotechnical data report (GDR) on 17 March 2020. Based on the GDR, Eustis Engineering performed engineering design and analyses, published two geotechnical engineering reports, and contributed to the 30% and final designs considering the following project features.

**Grand Pass Closure:** Eustis Engineering performed slope stability and settlement analyses to evaluate rock embankment closure concepts and evaluate alternatives using sheetpiles and driven piles for the closure.

**Earthen Containment Dikes:** Eustis Engineering's team performed stability analyses for three marsh fill elevations to evaluate the geometry required for a stable dike configuration. Analyses included estimates of dike fill consolidation during and after construction, recommendations for setup time required for the newly placed material before dredged fill slurry was placed, sequencing recommendations, and bearing capacity recommendations.

**Marsh Creation Fill Area Design:** Settlement analyses were performed for five marsh fill elevations projecting settlement over the 25-year project life. Eustis Engineering's analyses considered settlement during and after construction for scenarios of single-stage, two-stage, and three-stage dredging.

<b>PROJECT NO. 01</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
	<p><b>Earthen Ridge Design:</b> Eustis Engineering performed slope stability and settlement analyses for the ridge configuration. Engineering analyses included consolidation estimates during construction. Analyses also included two configurations for a gap closure along the ridge alignments.</p>	
<b>Completion Date (Actual or Estimated)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for Which Firm Was Responsible:</b>
06/2023 (A)	Unknown	\$760,000

**PROJECT NO. 02**

Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p align="center"> <b>Grand Isle Independent Levee District                      Preliminary Study                      Fifi Island Rock and Restoration Project                      Jefferson Parish, Louisiana                      CPRA Project No. TE-0171                      Eustis Engineering Project No. 25128</b> </p> <p align="center"> <b>Contact Information:</b>                      Grand Isle Independent Levee District                      Through                      GIS Engineering, L.L.C.                      Suite 600                      935 Gravier Street                      New Orleans, Louisiana 70112                      Kyle Galloway, P.E. @ 504-265-3504  <a href="mailto:kgalloway@gisy.com">kgalloway@gisy.com</a> </p>	<p>In a preliminary effort, Eustis Engineering provided geotechnical services for the Fifi Island Rock and Restoration Project. The objective of this project is to create, maintain, and nourish existing, deteriorating wetlands by placing hydraulically dredged material from an undetermined borrow source. Specifically, 281 acres of confined marsh will be placed in designated marsh creation areas (MCAs) formed by constructing earthen containment dikes (ECDs), rock dikes (RDs), and breakwaters around Fifi Island located northwest of Grand Isle.</p> <p>Eustis Engineering's geotechnical exploration included the performance of eight cone penetration tests (CPTs) to evaluate subsurface conditions and stratification. The CPTs were performed with an airboat-mounted rig using an electronic piezocone penetrometer with a 5-ton capacity.</p> <p>Utilizing the results of the geotechnical exploration, we performed engineering evaluations in general accordance with our proposal, furnished plans, and additional information from GIS.</p> <p>Our engineering analyses of the marsh creation cells included preliminary settlement estimates projecting settlement over the 20-year project life considering the effect of settlement of the subsurface soils. The settlement over time was estimated for 20 years after construction.</p> <p>Our scope for the ECDs, RDs, and breakwaters included slope stability analyses with and without marsh fill (as applicable) to evaluate the geometry required for stable dike/breakwater configuration, development of settlement estimates, and general construction recommendations.</p> <p>Design recommendations for the proposed project features were provided based on our findings from the CPT soundings and available historical data in the Grand Isle vicinity. Construction recommendations were also provided.</p> <p>Eustis Engineering plans to provide a new proposal comprising additional geotechnical field exploration and subsequent analyses to support final design of the project.</p>	
<p align="center"><b>Completion Date (Actual or Estimated)</b></p>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for Which Firm Was Responsible:</b>
05/2024 (A)	Unknown	\$85,000 (to date)

**PROJECT NO. 03**

**Project Name, Location, and Owner’s Contact Information:**

**Nature of Firm’s Responsibility:**

**State of Louisiana  
Coastal Protection and Restoration  
Authority (CPRA)  
Mid-Barataria Sediment Diversion Project  
Mississippi River Mile 60.7 AHP  
Vicinity of Ironton and Lafitte  
(Plaquemines and Jefferson Parishes),  
Louisiana  
CPRA Project No. BA-53  
CPRA Contract No. 4400013603  
Eustis Engineering Project No. 23325.00-.11**

**Contact Information:**  
State of Louisiana – CPRA  
Through AECOM  
1515 Poydras Street, Suite 2700  
New Orleans, Louisiana 70112  
Mark Gonski @ 504-799-1332  
[Mark.gonski@aecom.com](mailto:Mark.gonski@aecom.com)

The Mid-Barataria Sediment Diversion (MBSD) project is being designed to strategically reintroduce sediment and nutrients from the Mississippi River into the Barataria Basin. MBSD is an estimated \$1.3 billion project and the Coastal Protection and Restoration Authority’s (CPRA) signature project of the 2017 and 2023 Coastal Master Plans. It is a Construction-Manager-At-Risk (CMAR) project delivery method where the engineering and design (E&D) team is co-located with the CMAR and CPRA throughout the E&D process. Eustis Engineering L.L.C. is the lead geotechnical engineer for the E&D team. The MBSD project will sustainably create approximately 15,000 acres of land in the Barataria Basin over the long term. The CPRA proposes to construct the diversion intake and control structure through the Mississippi River levee on the western side of the Mississippi River at approximate River Mile 60.7 AHP in Plaquemines Parish, Louisiana. The diversion outfall will be constructed through the future New Orleans to Venice (NOV) levee into the Barataria Basin, allowing sediment-laden water from the Mississippi River to flow into the Barataria Basin. Key project features include a river inlet and diversion control structure, a conveyance channel, an outfall transition feature, site forced drainage including siphon and sluice gate structures, LA Highway 23 bridge and approaches, and the New Orleans and Gulf Coast Railroad bridge and approaches.

The 15% Basis of Design phase was completed in October 2018. The 30% Design phase was completed in November 2019 which included issuing a Design Documentation Report and a Geotechnical Engineering Report. After the 30% submittal, the CPRA initiated a Value Engineering phase that began in January 2020. The 60% and 90% designs were submitted in July 2021 and July 2022, respectively. The 100% design and Section 408 application was submitted in May 2023. Eustis Engineering’s activities throughout these phases have included: serving as the permitting agent for the CPRA and obtaining a Coastal Use Permit and Section 10/404 Permits from the U.S. Army Corps of Engineers (USACE) for performing soil borings and cone penetration tests (CPTs); developing a detailed project design criteria document; participating in a semi-quantitative risk assessments (SQRA) and workshop with the design team, CMAR, the CPRA, and the USACE; writing a SQRA Risk Report; helping develop and update the project risk register; obtaining CPTs and borings; soil laboratory testing including advanced shear strength testing (direct simple shear); and engineering analyses/design of the various project features. Eustis Engineering obtained 162 borings (3-in. and 5-in. diameter) and 98 CPTs for the three exploration phases (15%, 30% and 60%) in the river, land, and Barataria Bay environments. The field program was performed safely over several years and with hundreds of thousands of man-hours, one of the most impressive field exploration programs completed in the firm’s 78-year history.

<b>PROJECT NO. 03</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
	<p>Eustis Engineering took a lead role in developing geotechnical testing, instrumentation plans, and specifications for two, full-scale levee wick drain test sections. These test sections were necessary to improve the understanding of levee settlement, gain-in-foundation shear strength, and levee staged-construction schedule. These test levees and the associated instrumentation and monitoring began in 2019 and were completed in 2021. With 100% design complete, the construction phase was originally scheduled to begin in fall 2023 but was delayed. Some construction operations are anticipated to begin later this year. Eustis Engineering will remain involved performing engineering during construction tasks that include data gathering and evaluation for the extensive pile load test program and geotechnical instrumentation program for the conveyance channel levees.</p>	
<b>Completion Date (Actual or Estimated)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for Which Firm Was Responsible:</b>
Project is On Hold	Unknown	\$5,526,630

**PROJECT NO. 04**

<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p align="center"> <b>Jefferson Parish</b>  <b>Upper Barataria Terracing Project</b>  <b>Jefferson Parish, Louisiana</b>  <b>FNI Project JPL22495</b>  <b>Eustis Engineering Project No. 25108</b> </p> <p align="center"> <b>Contact Information:</b>                      Jefferson Parish Government Through                      Freese and Nichols, Inc.                      900 Camp Street                      New Orleans, Louisiana 70130                      Nina Reins @ 225-245-7202                 </p>	<p>The Upper Barataria Terracing project comprises construction of earthen terraces, using materials from adjacent borrow canals in open water to encourage the creation of emergent marsh in Barataria Bay near Bayou Dupre Cut and Bayou Dupont.</p> <p>Eustis Engineering L.L.C.'s scope of service for the geotechnical exploration comprised obtaining a Coastal Use Permit (CUP), executing a geotechnical exploration, and performing subsequent laboratory testing. Borings were performed at nine locations to depths of 50 feet below the mudline to evaluate subsurface conditions and stratification and to obtain samples of the various substrata. The soil test borings were drilled using a drill rig mounted onto a marsh buggy. Soil mechanics laboratory tests, performed on samples obtained from the soil borings, were used to evaluate the physical properties of the subsoils. The results from the soil borings and laboratory tests were transmitted through a geotechnical data report and later used to establish the recommendations we prepared in our geotechnical engineering report.</p> <p>Engineering analyses performed by Eustis Engineering for the proposed terraces included slope stability evaluation of the earthen terraces considering adjacent borrow canals; settlement analyses for immediate and long-term settlement due to the compression of subsurface soil consolidation; and general construction recommendations. We transmitted the findings and recommendations into a final geotechnical engineering report. Eustis Engineering provided additional consulting efforts with Freese and Nichols to establish constructability recommendations for use in the project plans and specifications. Our constructability recommendations are based on recent coastal engineering projects specific to earthen terraces and borrow canals.</p>	
<p align="center"><b>Completion Date (Actual or Estimated)</b></p>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for Which Firm Was Responsible:</b>
<p align="center">04/2024 (A)</p>	<p align="center">Unknown</p>	<p align="center">\$131,000 (to date)</p>

**PROJECT NO. 05**

**Project Name, Location, and Owner's Contact Information:**

**Nature of Firm's Responsibility:**

**State of Louisiana -  
Coastal Protection and Restoration  
Authority (CPRA)  
Grande Cheniere Ridge Marsh Creation Area  
Plaquemines Parish, Louisiana  
CPRA Contract No. 4400015385  
CPRA Project No. BA-0240  
CPRA Task No. 2  
Eustis Engineering Project No. 24364**

**Contact Information:**

State of Louisiana – CPRA  
The Water Campus  
150 Terrace Avenue  
Baton Rouge, Louisiana 70802  
Tye Fitzgerald, P.E. @ 225-342-7308  
[Tye.fitzgerald@la.gov](mailto:Tye.fitzgerald@la.gov)

The purpose of the Grande Cheniere Ridge Marsh Creation Project (BA-0240) is to create 600 acres of marsh and 10,820 linear feet of coastal ridge habitat by hydraulically dredging material from the Mississippi River borrow source. Significant marsh loss has occurred in this area due to construction of numerous oil and gas canals, subsidence, and sediment deprivation. The hope is marsh creation areas will be formed with the construction of earthen containment dikes around the boundaries of each proposed area using material excavated from adjacent borrow canals.

Five undisturbed soil borings and twelve cone penetration tests were performed within the marsh creation area (MCA). The soil borings extended to depths of 20 and 40 feet below the mudline. The CPTs were performed to depths of 36 to 40 feet below the mudline. Before our field operations, Eustis Engineering subcontracted T. Baker Smith, LLC, to perform a magnetometer survey at each boring and CPT location to ensure no pipelines or obstructions existed at the exploration points. Access for the MCA was via marsh buggy and air boat. Eustis Engineering also completed marine borings from a jack-up-barge within the Mississippi River (under a separate task order) to evaluate the proposed borrow source to be hydraulically dredged and pumped to the MCA. Once the field operations were completed, soil mechanics laboratory tests were performed on select, representative samples from the MCA. Testing included natural water content, unit weight, one-point unconsolidated undrained triaxial compression shear, Atterberg limits determinations, organic content tests, specific gravity, grain size analysis, percent passing the U.S. Standard No. 200 sieve, and consolidation tests. These results were transmitted as a Geotechnical Data Report.

Our engineering scope of work included evaluation of the marsh creation fill cells, earthen containment dikes design, ridge design, estimates of settlement, and slope stability analyses. Engineering analyses were performed using soil boring and laboratory test data from the current and previous explorations [October 2007 (BA-0042) and December 2015 (BA-0173)]. We also provided recommendations regarding site preparation and general construction recommendations relevant to our geotechnical design assumptions.

More specifically, our engineering analyses of the MCA have included settlement estimates and settlement curves for furnished marsh fill elevations which project settlement over a 20-year project life. Engineering analyses for the earthen containment dikes and the earthen ridge included slope stability analysis with and without marsh fill to evaluate the geometry required for stable configurations (construction elevation, acceptable side slopes, and acceptable crown width), geotextile requirements, estimates of dike fill consolidation during construction, construction sequencing recommendations, and

<b>PROJECT NO. 05</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
	bearing capacity assessments. These recommendations were issued in a draft Geotechnical Engineering Report (GER). Comments from CPRA were incorporated in the final GER.	
<b>Completion Date (Actual or Estimated)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for Which Firm Was Responsible:</b>
06/2021 (A)	Unknown	\$110,650

**PROJECT NO. 06**

**Project Name, Location, and Owner's Contact Information:**

**Nature of Firm's Responsibility:**

**State of Louisiana –  
Coastal Protection and Restoration  
Authority (CPRA)  
Grande Bayou Ridge and Marsh Restoration  
Plaquemines Parish, Louisiana  
CPRA Contract No. 4400015385  
CPRA Project No. BA-0217  
Eustis Engineering Project No. 24365**

**Contact Information:**  
State of Louisiana – CPRA  
150 Terrace Avenue  
Baton Rouge, Louisiana 70802  
Tye Fitzgerald, P.E. at 225-342-7308  
[tye.fitzgerald@la.gov](mailto:tye.fitzgerald@la.gov)

The Grand Bayou Ridge and Marsh Restoration Project (BA-0217) will create approximately 344 acres of marsh; 25,000 linear feet of terraces; and 10,657 linear feet of coastal ridge habitat by hydraulically dredging material from a Mississippi River borrow source and utilizing in-situ materials from Grand Bayou. The marsh creation areas will be formed by constructing earthen containment dikes around the boundaries of each proposed area using material excavated from adjacent borrow canals. The project will adhere to CPRA's Geotechnical Standards, Marsh Creation and Coastal Restoration Projects (Version 1.0) engineering and design standards.

Thirty-one locations were identified for drilling and testing in the project area. Six of the locations were designated as co-located soil borings and cone penetration tests (CPTs). These locations also correspond to those identified in a Coastal Use Permit obtained by CPRA. The borings and CPTs varied between 20 and 40 feet in depths. The borings were made using drilling equipment mounted onto a marsh buggy and the CPTs were made using an airboat. Mobilization for this task order was combined with the nearby BA-0240 project to provide economy. As part of our field investigation, Eustis Engineering's personnel coordinated with landowners, the U.S. Army Corps of Engineers, and appropriate levee boards. Eustis Engineering teamed with T. Baker Smith, LLC, to complete a hazard survey and provide locations and elevations for each boring/CPT. In the laboratory, samples were classified using the Unified Soil Classification System. Testing included moisture content, unit weight, one-point unconsolidated undrained triaxial compression shear, Atterberg limits determinations, organic content, sieve and hydrometer analyses, and consolidation tests. Field and laboratory test results were summarized in a Geotechnical Data Report (GDR). Note, samples of the Mississippi River borrow source were obtained and tested under a separate task order to provide soil characteristics for design.

Our staff performed engineering analyses for the earthen containment dikes, earthen ridge feature, earthen terrace design, and marsh creation fill area. These analyses include stability analyses to evaluate the geometry required for stable configurations of the dike, ridge, and terrace designs; estimates of fill consolidation settlement during construction of these same features; settlement curves (including immediate and consolidation settlement) of the subsurface soils; and construction sequencing recommendations. Marsh creation fill area designs require engineering analyses associated with evaluation of both primary and secondary consolidation settlement of the subsurface soils due to placement of sand as well as the projected settlement during construction and up to 20 years after construction. All data were presented in accordance with the Louisiana Sand Resource Database's Standard Operating Procedures for Geo-Scientific

<b>PROJECT NO. 06</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
	Data Management. Draft and final Geotechnical Engineering Reports (GER) were published to present the findings of the project.	
<b>Completion Date (Actual or Estimated)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for Which Firm Was Responsible:</b>
07/2021 (A)	Unknown	\$165,350

**PROJECT NO. 07**

**Project Name, Location, and Owner's Contact Information:**

**Nature of Firm's Responsibility:**

**State of Louisiana -  
Coastal Protection and Restoration  
Authority (CPRA)  
Maurepas Diversion and  
West Shore of Lake Pontchartrain  
St. John the Baptist Parish, Louisiana  
Eustis Engineering Project Nos. 24384.00-.02**

**Contact Information:**  
State of Louisiana – CPRA  
Through AECOM Technical Services, Inc.  
59100 Industrial Boulevard  
Building 3502  
Plaquemine, Louisiana 70764  
Clay Loyless, P.E. @ 504-799-1324

Eustis Engineering L.L.C.'s scope of service for the 15% design included review of existing geotechnical data, development of a geotechnical data collection plan, collection of new geotechnical data, laboratory analyses, development of geotechnical soil design reaches, and preparation of geotechnical design recommendations for the future flood protection and freshwater diversion. Our services focused on the freshwater diversion and the flood protection features associated with the U.S. Army Corps of Engineers' (USACE's) West Shore of Lake Pontchartrain (WSP) alignment. The WSP geotechnical exploration and analyses need to meet requirements for a 1% storm. Thus, all designs will be performed in accordance with the interim Hurricane and Storm Damage Risk Reduction System Design Guidelines (HSDRRSDG) as modified by WSP project specific post-summit memoranda developed by the USACE, New Orleans District. The geotechnical exploration work to date was completed to define soil and foundation conditions along the future WSP levee alignment as well as information for the diversion beyond the area of the WSP.

AECOM Technical Services, Inc. furnished available historical data, analyses, and reports to Eustis Engineering for review. In addition to the furnished data, Eustis Engineering performed additional field exploration to provide current soil conditions at the site to meet HSDRRSDG for the future levee and structural foundations. The field exploration comprised twelve, 5-in. diameter soil borings and eight cone penetration tests (CPTs). The 4-ft undisturbed sample tubes were extruded in the laboratory, divided, and tested in general accordance with standards followed by the USACE for the other portions of the WSP alignments. Our soil mechanics laboratory tests comprised unconfined compression shear, one and three-point unconsolidated undrained triaxial compression shear, direct simple shear, consolidation, Atterberg limits determinations, organic content determinations, and sieve and hydrometer analyses.

Using these data, the Maurepas Diversion was separated into three soil design reaches by our engineering staff. Subsurface conditions and design parameters were included in the initial draft report. Ongoing efforts will comprise deep-seated global stability analyses; unbalanced force determinations for T-walls; piping cutoff designs; uplift analyses; allowable pile load capacity estimates per the HSDRRSDG for T-wall structures; allowable pile load capacity estimates per the State of Louisiana, Department of Transportation and Development (LaDOTD) for Airline Highway; development of lateral load soil design parameters for foundation piles (e.g., subgrade moduli, LPILE® parameters, etc.) subject to unbalanced loading; preparation of Geotechnical Design Reports and supporting information for the Design Documentation Report; levee stability analyses with estimates of strength gain during and after construction; reinforcing geotextile strength and width based on the 2070 design elevations; settlement curves to year 2070;

**PROJECT NO. 07**

<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
	<p>estimates of settlement induced bending moments at multiple future tie-in locations along with recommendations for mitigating such effects; ground improvement programs by use of wick drain fields and preload/surcharge embankments at multiple sites; conceptual temporary retaining structure designs at each future structure location; utility relocation design recommendations pertaining to geotechnical requirements; Maurepas Diversion channel stability designs; LaDOTD standard pavement designs; and development and coordination of submittals for 35%, 95%, and 100% design stages including comment review and resolution. The Geotechnical Engineering Report to support the 35% level design was issued in December 2022. Some advancement of a 65% design alternative was made in 2023.</p> <p>We have recently completed a Geotechnical Data Report for a borrow area study. We conducted a supplemental geotechnical exploration that included the performance of ten soil borings to assess the diversion site as a potential borrow source for the proposed levees.</p>	
<b>Completion Date (Actual or Estimated)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for Which Firm Was Responsible:</b>
Ongoing	Unknown	\$581,000 (to date)

**PROJECT NO. 08**

<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p align="center"> <b>State of Louisiana - Coastal Protection and Restoration Authority (CPRA) Marsh Creation Projects in the Breton Sound (BS-0037 and BS-0041) St. Bernard Parish, Louisiana Eustis Engineering Project Nos. 24431.00, .01, and 24762</b> </p> <p align="center"> <b>Contact Information:</b>                      State of Louisiana – Coastal Protection and                      Restoration Authority (CPRA)                      150 Terrace Avenue                      Baton Rouge, Louisiana 70802                      Jessica Diez @ 225-342-1477                 </p>	<p>Eustis Engineering L.L.C. has provided geotechnical services for adjacent projects in the Breton Sound as part of the Coastal Protection and Restoration Authority (CPRA) Coastal Master Plan. These projects are BS-0037 and BS-0041 and involve the creation of more than 1,200 acres of confined marsh areas in the Breton Sound.</p> <p>Project No. BS-0037 will occur at the East Delacroix Marsh. The scope calls for 406 acres of confined marsh created by hydraulically dredging material from a borrow source in nearby Lake Lery. The marsh creation areas will be formed by constructing earthen containment dikes (ECDs) around the open perimeter. The existing tidal levee will be utilized to provide approximately 12,950 feet of terraces. Eustis Engineering drilled soil borings to depths of 15 feet in the Lake Lery borrow area, one boring and six cone penetration tests (CPTs) to 40 feet at the Delacroix Tidal Levee, and six soil borings and twelve CPTs to depths of 30 feet in the marsh creation area and terrace field. The borrow borings were made using a drill rig mounted onto pontoons. The marsh creation and terrace field borings and CPTs were made using airboat-mounted equipment.</p> <p>Project No. BS-0041 is planned in the North Delacroix area. The goal is to create and nourish approximately 389 acres of marsh while consulting approximately 8,550 linear feet of earthen terraces. The 389 acres of marsh will comprise 322 acres of marsh creation and 67 acres of marsh nourishment by hydraulically dredging material from a borrow source in nearby Lake Amedee. Two creation cells allowing channel drainage, tidal levees, and earthen containment dikes (ECDs) will be created, and the cells will be dewatered to attain necessary sediment. The ECDs will be formed by constructing temporary earthen terraces around the open perimeter.</p> <p>For both of these projects, Eustis Engineering performed engineering analyses and reporting services once our review of the existing and obtained geotechnical data was completed. These design analyses include ECD design, marsh creation area design, and canal closure features. Final geotechnical engineering reports have been published for both projects.</p>	
<p align="center"><b>Completion Date (Actual or Estimated)</b></p>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for Which Firm Was Responsible:</b>
06/2023 (A)	Unknown	\$398,270

**PROJECT NO. 09**

**Project Name, Location, and Owner's Contact Information:**

**Nature of Firm's Responsibility:**

**State of Louisiana  
Grand Isle State Park  
Phase I and II Improvements  
Jefferson Parish, Louisiana  
Eustis Engineering Project  
Nos. 24093.00-.01 & 25239**

**Contact Information:**  
State of Louisiana – CPRA  
Through GIS Engineering, L.L.C.  
Post Office Box 820  
Galliano, Louisiana 70354  
Laura L. Barnes, P.E. @ 985-219-1048

This project consists of repairs and upgrades to existing roads and parking lots damaged by repeated flooding. For the existing three-mile park roadway system, the repairs would include milling, overlaying, and full depth patching of pavement areas where sections had failed. In the three parking areas, repairs would include pulverizing the existing asphalt parking areas, and adding base course and an asphalt overlay to raise the parking area grades to above normal tide elevations.

Eustis Engineering L.L.C.'s field investigation for Phase I included the performance of seven direct-push type borings and two pavement cores using one of our Geoprobe® rigs to identify the subsurface soils, stratifications, and pavement conditions at the site, and to obtain samples of the various strata encountered. The borings were performed to depths varying between 8.5 and 9.0 feet below the asphalt surface, and the pavement cores were performed to depths of 2.5 and 3.3 feet. Laboratory testing services included the performance of visual classification and natural water content determinations to aid in the classification of the soil samples.

Engineering analyses were performed and recommendations developed for groundwater management including temporary and permanent drainage; site preparation including demolition and removal of existing slabs or pavements; subgrade preparation; structural fill and its compaction; and flexible pavement components and thicknesses meeting Section 502 of the Louisiana Standard Specifications for Roads and Bridges.

Phase II of the project focused on the proposed reconstruction of a rock jetty and deep foundation design for the planned extension of a fishing pier at the Grand Isle Park. Eustis Engineering's field exploration for this phase comprised two marine-based soil borings to obtain samples of the various strata encountered at the rock jetty and fishing pier. The borings extended to depths of 50 and 100 feet below the mudline.

Soil mechanics laboratory tests included natural water content, unit weight, unconfined compression shear, unconsolidated undrained triaxial compression shear, Atterberg limits determinations, and grain size distributions.

Proposed fishing pier upgrades comprise an extension of the existing pier into the Gulf of Mexico by approximately 400 feet. Eustis Engineering developed estimates of allowable axial and lateral pile load capacity to support the new pier foundations. We also provided estimates of allowable soil bearing capacity, deep-seated stability assessments, and general construction recommendations for the reconstruction of a rock jetty at the site.

In November 2023, further improvements to Grand Isle State Park's fishing pier were proposed, featuring a new structure of approximately 1,300 feet in the Gulf of Mexico. Eustis Engineering was asked to perform geotechnical services for this effort. We are utilizing data from Boring B-1 of the geotechnical exploration conducted during Phase II at the fishing pier under

<b>PROJECT NO. 09</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
	<p>Eustis Engineering Project No. 24093.01 to supplement our engineering analyses. We have also recently completed drilling one undisturbed soil boring to a depth of 120 feet using a track-mounted drill rig to supplement the available data. Our team applied for and acquired a Coastal Use Permit through the Louisiana Department of Energy and Natural Resources, Office of Coastal Management, to allow for these exploration operations. The existing data, new soil boring, and laboratory tests are being utilized to prepare an updated design report of our findings and recommendations for the revised project scope. With the supplemental field exploration completed, the design analyses are underway and the report will be published in July 2024.</p>	
<b>Completion Date (Actual or Estimated)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for Which Firm Was Responsible:</b>
07/2024 (E)	Unknown	\$44,000 (to date)

**PROJECT NO. 10**

**Project Name, Location, and Owner's Contact Information:**

**Nature of Firm's Responsibility:**

**State of Louisiana  
Department of Wildlife and Fisheries  
Marsh Island Refuge Water Control  
Structure Replacements  
Belly Dam, Joe Aucoin, and  
Northeast Bird Island  
Iberia Parish, Louisiana  
Ducks Unlimited Project No. DU-LA-198-1  
Eustis Engineering Project Nos. 24170.00, .01**

**Contact Information:**  
State of Louisiana Through  
Ducks Unlimited, Inc.  
915 Front Street  
Richmond, Texas 77469  
John Hetherwick @ 832-595-0063  
[jhetherwick@ducks.org](mailto:jhetherwick@ducks.org)

The project consists of the construction of three new flood control structures within the existing Marsh Island Refuge in Iberia Parish, Louisiana. The exact site was positioned on the northern side of Marsh Island, just south of the New Iberia, Louisiana coast. The Joe Aucoin West Weir and Belly Dam Weir flood control structures will replace existing structures with reported scour areas, and the Northeast (NE) Unit Structure on the Northeast Bird Island Unit will comprise new construction. Eustis Engineering L.L.C. was contracted to perform a geotechnical exploration and subsequent analyses, based on specific hydraulic design criteria, for the proposed design features.

Three borings were drilled to depths of 50 feet below the existing mudline in open water channels and bayous. These borings were completed with the use of a drill rig mounted onto a pontoon boat owned and operated by Specialized Environmental Resources, Inc. as subcontracted through Eustis Engineering. We provided the soil technician to log the boreholes and retain the samples. Once the field/marine operations were completed, we selected samples to be subjected to soil mechanics laboratory tests in our in-house facilities. Testing performed included natural water content, total unit weight, and unconsolidated undrained triaxial compression shear. Additionally, Atterberg limits determinations were performed on selected samples.

Engineering analyses performed and evaluations made, based on the soil borings and laboratory tests, consisted of:

- site preparation recommendations regarding the demolition of the existing structures;
- sheetpile wall (PVC, vinyl, or steel) foundation recommendations for the Joe Aucoin West Weir, NE Unit Structure, and Belly Dam Weir;
- results of local and global slope stability analyses and respective factors of safety;
- flood control structure analyses and recommendations;
- deep foundation recommendations including allowable load capacity for treated ASTM D25 timber piles and pile group capacity and spacing considerations;
- settlement estimates due to structural loads of deep foundations; and
- deep foundation installation and testing recommendations for driven piles.

<b>PROJECT NO. 10</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
	<p>After issuing our report, Eustis Engineering was requested to perform supplemental engineering analyses for the project. Specifically, additional local stability analyses were requested to be performed for each of the proposed water control structures. The purpose of these additional analyses was to verify the amount of sheetpile length saved if an anchored sheetpile wall was designed at each of the project locations in lieu of a cantilevered sheetpile wall.</p>	
<b>Completion Date (Actual or Estimated)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for Which Firm Was Responsible:</b>
12/2021 (A)	Unknown	\$38,000

**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. None at this time.		
2.		
3.		
4.		

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

**EVALUATION CRITERIA**

**Professional Training and Experience.** Our staff includes eight project managers and senior project managers with a supporting staff of project engineers, engineering interns, engineering technicians, and geologists. This staff has worked on field investigations for Jefferson Parish projects as well as the geotechnical design of marsh and ridge restoration, shoreline stabilization, and living shorelines across the Gulf Coast during their tenure with Eustis Engineering. Eustis Engineering currently has 17 professional engineers registered in the State of Louisiana.

**Capacity for Timely Completion.** Our geotechnical engineering staff has extensive experience in a wide range of projects to meet the needs of the team to support projects for Jefferson Parish. Our staff size allows diversification and appointment of teams to meet our commitments on projects in a timely and professional manner. We believe Eustis Engineering has demonstrated that we have sufficient capability and capacity to provide geotechnical services under this SOQ.

**Location of the Principal Office Where Work will be Performed.** Work under this advertisement will be performed out of Eustis Engineering’s headquarters in Metairie, Louisiana. This office is conveniently located just off the I-10 Service Road and Causeway Boulevard in the heart of Jefferson Parish.

**Adversarial Legal Proceedings with the Parish.** Currently, Jefferson Parish and Eustis Engineering have no ongoing adversarial legal proceeding between our entities.

**Prior Successful Completion of Projects Requiring Soils Investigation Services for Which Firm has Provided Verifiable References.** Eustis Engineering has provided geotechnical services for more than 4,000 projects in Jefferson Parish during our nearly 80 years in business. Some of these projects include:

- Mid-Barataria Sediment Diversion Project, Mississippi River Mile 60.7 AHP, Plaquemines and Jefferson Parishes, Louisiana;
- Lafitte Area Independent Levee District, Lafitte Tidal Protection, Rosethorn Basin – Phase I Frontal Levee Along Bayou Barataria;
- Lafitte Area Independent Levee District, Fisher School Basin – Tidal Protection Along Bayou Barataria;
- National Park Service, Jean Lafitte National Historical Park and Preserve, Barataria Preserve Unit;

- Coalition to Restore Coastal Louisiana and Pontchartrain Levee District – Salinity Barrier, Interstate 10 at Interstate 310, Jefferson Parish – St. Charles Parish line;
- Veterans Boulevard Drainage Pump Stations;
- Hoey’s Canal Drainage Improvements;
- 17<sup>th</sup> Street Canal Drainage Improvements, Airline Highway to Hoey’s Canal;
- Instrumentation Installation and Monitoring, Lapalco Boulevard Overpass at Bayou Segnette; and
- Grand Isle State Park, Phase I and II Improvements.

**References:**

Kevin DeZarn, P.E. GIS Engineering, L.L.C. 197 Elysian Drive Houma, Louisiana PN 985-219-1048	Randy M. Perrin, E.I. U.S. Army Corps of Engineers Post Office Box 60267 New Orleans, Louisiana 70160 PN 504-862-1121
Anthony Goodgion, P.E. Linfield, Hunter & Junius, Inc. 3608 18 <sup>th</sup> Street Metairie, Louisiana 70002 PN 504-833-5300	Mark Gonski, P.E. AECOM 1515 Poydras Street Suite 2700 New Orleans, Louisiana 70112 PN 504-799-1332
Joe Fifer, P.E. Ducks Unlimited, Inc. 806 Bayou Black Houma, Louisiana 70360 PN 985-853-3005	Bruce Adams, P.E. Volkert Inc. 3801 Canal Street Suite 210 New Orleans, Louisiana 701189 PN 504-865-0456

When Eustis Engineering L.L.C. opened its first office in Vicksburg, Mississippi, in 1946, it housed its entire operation in less than 500 square feet of space. ***Seventy-eight years later***, our personnel and equipment occupy 40,000+ square feet of space in five locations.

***Eustis Engineering is the third oldest, continually operating geotechnical firm in the United States.*** From a single two-man office to approximately 115 individuals in five offices, the firm has grown to house accounting, administrative, quality control, safety, drilling, engineering, laboratory, and construction materials testing departments. These departments work together to provide our clients with the quality work desired in a cost efficient and timely manner.

***Eustis Engineering is headquartered in Metairie, Louisiana, in the heart of Jefferson Parish.*** We also operate branch offices in Baton Rouge and Lafayette, Louisiana, Gulfport, Mississippi, and Houston, Texas. Our offices and staff collaborate seamlessly using Microsoft Teams and other virtual platforms.

Eustis Engineering’s services encompass many disciplines including the performance of:

- subsurface exploration (drilling of soil borings, cone penetration testing, downhole vane, and Geoprobe®);
- soil mechanics laboratory tests;
- field instrumentation and monitoring;
- non-destructive testing of piles and shafts including dynamic pile testing, crosshole sonic logging, single-hole sonic logging, low strain pile integrity testing, and thermal integrity profiling;
- geotechnical engineering design;
- special inspections; and
- construction quality control and materials testing services.

Eustis Engineering L.L.C. Important Numbers	
Item	Number
Unique Entity Identifier (UEI)	R83MG9NLTMS4
CAGE Code	4MOP2
Firm License - Louisiana	EF.0003558
Firm License - Mississippi	2078
Firm Registration – Texas	13895

Eustis Engineering has worked on over 850 geotechnical and construction materials testing projects for Jefferson Parish Government entities. We have also worked on over 4,000 projects of all types throughout the east and west banks of Jefferson Parish alone, not considering similar projects in the surrounding parishes. This work history gives our engineering staff unparalleled familiarity with the foundation conditions in the Gulf Coast and the challenges that may arise for projects associated with this contract.

### ENGINEERING SERVICES

Eustis Engineering has geotechnical engineering capabilities to fulfill the requirements of nearly any project. As evidenced by the included write-ups in this package, our experience with various marsh creation, ridge restoration, and other coastal engineering projects is varied and extensive. We evaluate local and deep-seated global stability of earthen containment dikes, ridges, and terraces; levee embankments and shoreline; and waterway slopes. We provide assessments of seepage and erosion control measures.

We have developed pile capacity and bearing capacity analyses for projects throughout the coastal areas of the United States. Eustis Engineering’s evaluation of piles includes estimates of vertical capacity for groups. We also perform lateral analyses of individual piles and pile groups using LPILE® and GROUP® software. We evaluate floodwalls, including I-walls, L-walls, T-walls and gates.

We perform settlement studies including estimates of settlement and time-rate of settlement with and without wick drains to enhance consolidation. These settlement studies include estimates and recommendations for lift construction affecting a gain-in-strength of foundation soils associated with subsoil consolidation. Preload/surcharge operations are also a component of our settlement evaluations.

In our practice, Eustis Engineering has developed methodologies associated with the estimates of negative skin friction on pile foundations. The methods are the current state of practice. The extension of these methods is an evaluation of settlement induced bending moments. Eustis Engineering is also utilizing a numerical model program, SIGMA/W, in association with the rigorous settlement program Settle3.

## Engineering Staffing

Our engineering staff has 16 master's degrees in Civil Engineering, Engineering, Engineering Management, Geology, and Business Administration. Participation in post-Bachelor of Science curricula, as well as continuing education and professional registration that emphasizes engineering management and technical issues, is very important to Eustis Engineering. Our engineers also regularly present at technical conferences. We encourage and fund our staff for these activities and programs.

Employee	Education	Experience	
		Years with Eustis Engineering	Total Years
<b>Professional Engineers (P.E.)</b>			
Benjamin M. Cody	M.S. / Civil Engineering	22	26
Brian A. Deschamp	B.A. / Business Administration	12	12
	M.S. / Civil Engineering – Geotechnical		
P. Tennant Duckworth	M.S. / Civil Engineering	3	3
James J. Hance	M.S. / Civil Engineering	20	24
	M.B.A. / Business Administration		
Chad L. Held	M.S. / Civil Engineering	33	33
Matthew K. Morales	B.S. / Civil Engineering	15	15
Tomas K. Morales	B.S. / Civil Engineering	10	10
Travis R. Richards	M.S. / Engineering	17	24
	M.S. / Engineering Management		
	Coastal Engineering Certificate		
Chad D. Roe	M.S. / Civil Engineering	1	11
Gwendolyn P. Sanders	M.S. / Engineering	31	31
Sanjay S. Shahji	M.S. / Civil Engineering	1	18
Shaun R. Simon	M.S. / Civil Engineering	24	24
Alice E. Stark	B.S. / Civil and Environmental Engineering	<1	8
Patrick A. Thurmond	M.S. Engineering Management	9	9
	M.S. / Civil Engineering		
	Coastal Engineering Certificate		
Sean G. Walsh	M.S. / Civil Engineering	11	16
James M. Williams	M.S. / Civil Engineering	6	6
Henry C. Worley	M.S. / Engineering	6	7
	Coastal Engineering Certificate		
<b>Engineering Interns (E.I.)</b>			
Adam K. Abdulbagi	B.S. / Civil Engineering	1	1
Naba Almofraji	B.S. / Civil Engineering	<1	6
Alvaro E. Carvajal	B.S. / Civil Engineering	1	1
Joseph P. DiGiovanni	B.S. / Civil Engineering	1	1

Steven B. Tidwell	B.S. / Geological Engineering	<1	13
<b>Engineering Graduates</b>			
Alexander Soriano Doninelli	B.S. / Civil Engineering	<1	4
Lesley L. Reitmeyer	B.S. / Civil Engineering	15	15
Xia (Bruce) Xialong	PhD / Geotechnical Engineering	<1	10
	M.S. / Geotechnical Engineering		
<b>Geologists</b>			
Matthew J. Blasini, G.I.T.	B.S. / Geology	5	6
Nathan A. Quick, P.G.	M.S. / Geology	2	7
<b>Total Years of Experience</b>		<b>246</b>	<b>322</b>

*Reviewing our table, the majority of Eustis Engineering's professional engineers have at least ten years of experience in geotechnical engineering.*

### Cone Penetration Testing Capabilities

Eustis Engineering owns two dedicated track-mounted cone penetration test (CPT) rigs and operates four other multi-purpose rigs capable of performing CPTs. Operators are either specifically trained engineering technicians or engineers who perform field operations utilizing the CPT equipment. Engineers with specialized knowledge and experience operating the rigs evaluate the sounds and produce the CPT logs. Five of our rigs can be placed on a cargo buggy, shallow draft barge, or airboat to access coastal marsh or open water. We have sounded to depths of 180 feet and have the ability to perform dissipation and seismic testing. Field testing is performed according to ASTM D5778 and common industry practices. Eustis Engineering has been performing CPTs and using CPT technology since the early 2000s.

A CPT can be accomplished rapidly with four or five being performed in the same time frame as a standard geotechnical boring; therefore, CPTs are typically cost-effective in providing enhanced subsurface exploration and better delineation of subsurface conditions at a project site.

### Dynamic Pile Testing Capabilities

Eustis Engineering was the first private consulting firm to own and operate dynamic pile testing equipment in the States of Louisiana and Mississippi. The pile types tested include timber piles; small size pipe piles; square, precast concrete piles and large (60 to 72-in. diameter) spun-cast, prestressed concrete piles; open-end and closed-end steel pipe piles; and steel H-piles.

We often upgrade our data collectors and operate four Pile Driving Analyzers® (PDAs): one PAX unit and three PDA-8G units. These units can be battery operated and use wireless gauge transmitters to eliminate the need for a main cable to connect directly to the units. We also stock and use underwater gauges to monitor pile driving in marine environments when the pile head descends below the water surface. To support our four PDA units, Eustis Engineering maintains an extensive inventory of calibrated gauges and accessories. To provide quality assurance and rapid responses to issues in the field, all PDAs have wireless communication, enabling our engineers direct oversight of the dynamic pile testing process in real time.

We also use this PDA equipment to maintain the calibrations of our automatic Standard Penetration Test (SPT) hammers on our drill rigs.

### **Other Non-Destructive Testing Capabilities**

Our engineering staff at Eustis Engineering performs other non-destructive testing services to verify the structural integrity of drilled shafts, augercast piles, and precast concrete piles. Some of these processes include crosshole/single-hole sonic logging (CSL or SSL), low strain pile integrity testing (PIT), and thermal integrity profiling (TIP™). We also perform parallel seismic testing to evaluate existing foundation depths.

### **INSTRUMENTATION**

Eustis Engineering has installed geotechnical instrumentation for decades. Our instrumentation programs have resulted in substantial cost savings to our clients by reducing preload durations, providing refinement of geotechnical design parameters through full-scale testing, and verifying the performance of cutting-edge designs. Our services go beyond the construction phase, as long-term monitoring programs enable owners to maximize utilization of their facilities throughout the design life by verifying if soil behavior is within acceptable limits.

Eustis Engineering provides the following instrumentation services:

- Vibrating wire devices including piezometers, extensometers, settlement gauges, and strain gauges
- Data loggers to enable periodic collection of data for vibrating wire devices
- Data links for remote web access to data loggers in near real time
- Settlement plates
- Conventional slope inclinometers or MEM sensor array inclinometers
- Monitoring services of all instrumentation devices with geotechnical interpretation

Instrumentation is a natural complement to our design services, providing data to verify or modify recommendations based on the observational method. Ongoing monitoring enables us to provide continuing services from project inception to the end of a project's design life.

### **DRILLING/FIELD EXPLORATION**

Eustis Engineering possesses licenses and credentials to perform geotechnical drilling in Louisiana and Mississippi (no license is needed in Texas). With our licenses and credentials, Eustis Engineering drills soil borings and performs sampling operations for our clients' projects in all types of environments including land, marsh, swamp, and marine. Our personnel have the capability and experience to provide these services from trucks, barges, pontoons, and swamp or marsh buggies. We also have portable units that can be used inside structures planned for retrofit/renovations.

### **Field Exploration Personnel**

We can provide up to nine drillers and drill rigs capable of obtaining standard 3-in. diameter Shelby tube samples and 5-in. diameter fixed piston samples, sounding CPT, advancing Geoprobe samplers, and installing

geotechnical instrumentation on land, in water, and in marsh environments as indicated in the following table.

Capabilities of Eustis Engineering's Field Exploration Staff	Blair Armant	Scott Bombard	James Cordes	Tevin Crawford	Rene Davidson	Eric Held	James Lubben	George Reitmeyer	Lawrence Rome
Hand Auger Borings	X	X	X	X	X	X	X	X	X
General Type (3-in. Diameter Borings)	X	X	X	X	X	X	X		X
General Type (3-in. Diameter Borings) in Hard Access Locations (Marsh, Swamp, Heavily Forested)	X	X	X	X	X	X	X		X
Undisturbed Type (5-in. Diameter Borings)	X	X	X	X	X	X	X		X
Undisturbed Type (5-in. Diameter Borings) in Hard Access Locations (Marsh, Swamp, Heavily Forested)	X	X	X	X	X	X	X		X
Location Information (Latitude, Longitude)	X	X	X	X	X	X	X		X
Set Permanent Benchmarks	X	X	X	X	X	X	X		X
Install Instrumentation	X	X	X	X	X	X	X		X
Cone Penetration Tests		X				X		X	X
Geoprobe Sampling		X	X		X	X	X		X

### Field Exploration Equipment

Eustis Engineering owns and operates seven wet rotary drill rigs. These include truck, track, and skid-mounted rigs. This equipment includes one Diedrich truck-mounted D-50 turbo drill rig (with an automatic SPT hammer); one truck-mounted CME-55 rig; one track-mounted CME-850X rig with an automatic hammer; one track-mounted CME-850XR rig with an automatic hammer; one truck-mounted CME-55 rig with a detachable CME-55 skid unit and automatic hammer; and two track mounted Geoprobe 3230 DT. We also own two track-mounted cone penetrometer systems capable of providing up to 15 tons of reaction. Our CME track rigs provide low ground pressure and are designed to traverse soft ground surfaces, steep slopes, and lightly wooded areas. Eustis Engineering also owns two direct push Geoprobe units: the 6620DT, and the 540M. Eustis Engineering's 6620DT Geoprobe with its 12-in. tracks allow this equipment to be used on pavement as well as off road and in rugged terrain. The 6620DT and 3230DT rigs also can be placed on specialized equipment. This includes a jack-up barge and a cargo buggy for operations over marsh/water. These units can install shallow monitoring wells and other instrumentation. We also have the capability to perform CPTs and downhole vanes using the 3230DT rigs. Our 540M Geoprobe can fit into confined spaces as narrow as 32 inches. The 540M can also be utilized on an airboat for coastal terrains.

### Other Specialized Soil Sampling Equipment

In addition to our drill rigs, Eustis Engineering owns and operates an Acker Vane Shear to perform down hole in-situ testing. We also have hand augers to obtain samples at various depths for use in classification and stratification of soil deposits. This equipment can be used in association with handheld piston samplers to obtain small diameter samples. Finally, we operate dynamic cone penetration tests (DCPTs) to assess the in-situ strength of undisturbed soils and compacted materials in accordance with ASTM D6951.

### **Drone Capabilities**

Eustis Engineering utilizes small Unmanned Aerial Systems (sUAS), more commonly known as “drones,” to enhance our services. We use drones to perform site inspections, field reconnaissance, pre/post-construction condition surveys, construction inspections, and other forms of visual monitoring. We currently operate a DJI Mavic Air 2S Drone piloted by a Part 107 Certified Remote Pilot.

### **LABORATORY SERVICES**

Eustis Engineering’s laboratories are constantly evolving with the purchase of new equipment on a yearly basis. Our gINT® data management software from Bentley allows for maximum efficiency in the production of boring logs and data entry.

Eustis Engineering has also acquired OpenGround®, Bentley’s Cloud platform, which interfaces with a collection of geotechnical applications. OpenGround provides a comprehensive solution for collecting, reporting, managing, visualizing, analyzing, and accessing data. Its advanced digital workflows combine both subsurface and surface data into one cohesive design. This software provides Eustis Engineering’s team members access to a data source via connected applications or a web portal, increasing both collaboration and efficiency. Improved access and reliability will save time and money in the planning, design, analysis, construction, and operation of infrastructure projects.

Eustis Engineering has also acquired KeyLAB® from Bentley. KeyLAB is the leading laboratory management system built specifically for geotechnical and construction materials testing laboratories. It improves our laboratory efficiency at every stage of the geotechnical and construction testing process, including sample and storeroom management, as well as electronic scheduling, testing, and reporting. It integrates with Microsoft Excel®, allowing for the efficient development of customized worksheets and reports.

Technical testing common to our laboratories includes ASTM; American Concrete Institute (ACI); State of Louisiana, Department of Transportation and Development (LaDOTD); AASHTO; FAA; and the U.S. Army Corps of Engineers (USACE). Our laboratories hold accreditations from AASHTO, LaDOTD, and the USACE.

### **Laboratory Staffing**

Eustis Engineering currently has qualified technicians to sample construction materials and perform soil mechanics laboratory testing. These technicians are versed in the latest standards from ASTM, LaDOTD, MDOT, AASHTO, FAA, and the USACE. Many of our technicians have earned certifications with the National Institute for Certification in Engineering Technologies (NICET) in the area of geotechnical engineering technology and in the subfields of construction, exploration, generalist, and laboratory.

## Laboratory Quality Control

In our effort to ensure the quality of our laboratory and materials testing, our programs are regularly inspected by outside agencies such as the USACE, the AMRL Group of the American Association of State Highway and Transportation Officials, and the CCRL Group of AASHTO. Eustis Engineering is also accredited by the Mississippi Department of Transportation.

Eustis Engineering has three soil mechanics laboratories where our laboratory practices and quality management system meet the requirements of AASHTO R 18 and ASTM E329. These offices are located in Metairie, Baton Rouge, and Gulfport. Individual offices may comply with ASTM quality system specifications including ASTM C1077, ASTM D366, and ASTM D3740. Accreditations in the various areas are shown below.

Metairie	Baton Rouge	Gulfport
Aggregate	Aggregate	Aggregate
Concrete	Soil	Asphalt
Masonry	Concrete	Concrete
Soil	Spray Fire-Resistive Material	Soil
		Spray Fire-Resistive Material

To further show quality is paramount to Eustis Engineering, we have two individuals in charge of maintaining quality in our testing. Travis R. Richards, P.E., is the Engineer-In-Charge. Timmy Holleman, dedicated Quality Control Manager, oversees the calibration of our equipment and maintenance of our quality system. The biggest reward of our quality system is knowing our clients are confident our testing laboratories produce the highest quality results and conform to state and national standards.

## **CONSTRUCTION MATERIALS TESTING**

Eustis Engineering has been involved in construction materials testing (CMT) and inspection on a regular basis since the mid-1980s. Over the past 30+ years, Eustis Engineering has accumulated a wealth of experienced technicians in these areas. Whether 20 feet down in an excavation or 20 stories up in a high rise, our CMT technicians are there providing the inspection services needed on individual projects.

### Staffing

Eustis Engineering currently has nearly 30 technicians on staff to provide construction inspection services on a daily basis. These services encompass the areas of soils, piling, asphalt, concrete, steel, and others.

### Services

Soils testing in the field is performed by means of density tests, fill placement inspection, and depth checks. These services are performed by technicians who have attended courses by Troxler or Humboldt in the use of nuclear density devices.

Piling services include the inspection of various types of piles, logging these piles, and performance of pile load tests with calibrated equipment. Load test results are, in turn, interpreted and reported by a registered engineer on our staff.

Our realm of concrete inspection includes the formulation and review of mix designs, quality control at the plant and in the field, materials testing and sampling, precast piling inspection, post tension inspection, floor flatness, and mortar and grout inspection. These services are performed by our ACI and NICET certified technicians.

Steel inspection may include the visual inspection of structural steel at the site or in the shop, steel and pipe coating sampling, post tension and welder certification witnessing, and the performance of ultrasonic and x-ray testing. These services are performed by members of our staff currently certified with AWS, ASNT, and/or ASME.

Other CMT services provided by Eustis Engineering personnel include fireproofing inspection, vibration and acoustical monitoring, paint inspection, and more.

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

**Signature:**   
**Title:** President

**Print Name:** Gwendolyn P. Sanders, P.E.  
**Date:** 21 June 2024

## EUSTIS ENGINEERING, LLC LICENSE

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

Name:	Public Address:
<b>Eustis Engineering, L.L.C.</b>	Eustis Engineering L.L.C. c/o Kathy D. LeRouge 3011 28th Street Metairie, Louisiana 70002

### License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0003558	Active	09/13/2006	03/31/2025	Mr. Travis Russell Richards # PE.0030992 ; Mr. Benjamin Mcmillan Cody # PE.0030292

## EUSTIS ENGINEERING, LLC LICENSES



LOUISIANA PROFESSIONAL  
ENGINEERING & LAND SURVEYING BOARD  
(LAPELS)

9643 Brookline Avenue, Suite 121  
Baton Rouge, LA 70809  
Phone (225) 925-6291  
www.lapels.com

Ms. Gwendolyn Philips Sanders

License/Certificate Type - Number

PE.0027104

Expiration Date

09/30/2025

Status: **Active**



LOUISIANA PROFESSIONAL  
ENGINEERING & LAND SURVEYING BOARD  
(LAPELS)

9643 Brookline Avenue, Suite 121  
Baton Rouge, LA 70809  
Phone (225) 925-6291  
www.lapels.com

Mr. James Johnathan Hance

License/Certificate Type - Number

PE.0031270

Expiration Date

09/30/2024

Status: **Active**



LOUISIANA PROFESSIONAL  
ENGINEERING & LAND SURVEYING BOARD  
(LAPELS)

9643 Brookline Avenue, Suite 121  
Baton Rouge, LA 70809  
Phone (225) 925-6291  
www.lapels.com

Mr. Sean Gerard Walsh

License/Certificate Type - Number

PE.0037905

Expiration Date

09/30/2025

Status: **Active**



LOUISIANA PROFESSIONAL  
ENGINEERING & LAND SURVEYING BOARD  
(LAPELS)

9643 Brookline Avenue, Suite 121  
Baton Rouge, LA 70809  
Phone (225) 925-6291  
www.lapels.com

Mr. James Michael Williams

License/Certificate Type - Number

PE.0046017

Expiration Date

03/31/2026

Status: **Active**



LOUISIANA PROFESSIONAL  
ENGINEERING & LAND SURVEYING BOARD  
(LAPELS)

9643 Brookline Avenue, Suite 121  
Baton Rouge, LA 70809  
Phone (225) 925-6291  
www.lapels.com

Mr. Henry C. Worley

License/Certificate Type - Number

PE.0045424

Expiration Date

09/30/2025

Status: **Active**

## **5. ELOS ENVIRONMENTAL, LLC**

*(Subconsultant: Biological and Environmental Assessment of Wetlands, Analysis and Permitting)*

### **TEC Professional Services Questionnaire**



## TEC Professional Services Questionnaire

<p><b>A. Project Name and Advertisement Resolution Number:</b>                  Coastal Engineering Consulting Services as Needed Parish Wide                  SOQ 24-020, Jefferson Parish</p>																											
<p><b>B. Firm Name &amp; Address:</b>                  ELOS Environmental, LLC                  607 W. Morris Ave.                  Hammond, LA 70403</p>																											
<p><b>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:</b>                  Lucas Watkins, Principal                  lwatkins@elosenv.com                  985-662-5501</p>																											
<p><b>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.</b>                  None</p>																											
<p><b>E. Please provide the number of employees whose primary function corresponds with each category:</b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;"><u>10</u> Administrative</td> <td style="width: 33%;"><input type="checkbox"/> Estimators</td> <td style="width: 33%;"><input type="checkbox"/> Specification Writers</td> </tr> <tr> <td><input type="checkbox"/> Architects (Licensed)</td> <td><u>1</u> Geologists</td> <td><input type="checkbox"/> Structural Engineers</td> </tr> <tr> <td><input type="checkbox"/> Chemical Engineers</td> <td><input type="checkbox"/> Geotechnical Engineers</td> <td><input type="checkbox"/> Graduate Engineers</td> </tr> <tr> <td><input type="checkbox"/> Civil Engineers</td> <td><input type="checkbox"/> Interior Designers</td> <td><u>10</u> Project Managers</td> </tr> <tr> <td><u>2</u> Construction Inspectors</td> <td><input type="checkbox"/> Landscape Architects</td> <td><u>6</u> Clerical</td> </tr> <tr> <td><u>28</u> Ecologists</td> <td><input type="checkbox"/> Land Surveyor</td> <td><u>2</u> Grant/Funding Specialist</td> </tr> <tr> <td><input type="checkbox"/> Electrical Engineers</td> <td><input type="checkbox"/> Mechanical Engineers</td> <td><input type="checkbox"/> Sanitary Engineers</td> </tr> <tr> <td><input type="checkbox"/> Engineer Intern</td> <td><input type="checkbox"/> Environmental Engineers</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Professional Land Surveyors</td> <td></td> <td><u>59</u> <b>TOTAL</b></td> </tr> </table>	<u>10</u> Administrative	<input type="checkbox"/> Estimators	<input type="checkbox"/> Specification Writers	<input type="checkbox"/> Architects (Licensed)	<u>1</u> Geologists	<input type="checkbox"/> Structural Engineers	<input type="checkbox"/> Chemical Engineers	<input type="checkbox"/> Geotechnical Engineers	<input type="checkbox"/> Graduate Engineers	<input type="checkbox"/> Civil Engineers	<input type="checkbox"/> Interior Designers	<u>10</u> Project Managers	<u>2</u> Construction Inspectors	<input type="checkbox"/> Landscape Architects	<u>6</u> Clerical	<u>28</u> Ecologists	<input type="checkbox"/> Land Surveyor	<u>2</u> Grant/Funding Specialist	<input type="checkbox"/> Electrical Engineers	<input type="checkbox"/> Mechanical Engineers	<input type="checkbox"/> Sanitary Engineers	<input type="checkbox"/> Engineer Intern	<input type="checkbox"/> Environmental Engineers		<input type="checkbox"/> Professional Land Surveyors		<u>59</u> <b>TOTAL</b>
<u>10</u> Administrative	<input type="checkbox"/> Estimators	<input type="checkbox"/> Specification Writers																									
<input type="checkbox"/> Architects (Licensed)	<u>1</u> Geologists	<input type="checkbox"/> Structural Engineers																									
<input type="checkbox"/> Chemical Engineers	<input type="checkbox"/> Geotechnical Engineers	<input type="checkbox"/> Graduate Engineers																									
<input type="checkbox"/> Civil Engineers	<input type="checkbox"/> Interior Designers	<u>10</u> Project Managers																									
<u>2</u> Construction Inspectors	<input type="checkbox"/> Landscape Architects	<u>6</u> Clerical																									
<u>28</u> Ecologists	<input type="checkbox"/> Land Surveyor	<u>2</u> Grant/Funding Specialist																									
<input type="checkbox"/> Electrical Engineers	<input type="checkbox"/> Mechanical Engineers	<input type="checkbox"/> Sanitary Engineers																									
<input type="checkbox"/> Engineer Intern	<input type="checkbox"/> Environmental Engineers																										
<input type="checkbox"/> Professional Land Surveyors		<u>59</u> <b>TOTAL</b>																									
<p><b>F. Is this submittal by a JOINT-VENTURE? Please check: YES:                      NO: X</b></p> <p><b>If marked "No" skip to Section I. If marked "yes" complete Sections G-H.</b></p>																											

## 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.**

2.

**H. Has this JOINT-VENTURE previously worked together? Please check:  
YES: X 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. ELOS Environmental, LLC 607 West Morris Ave Hammond, LA 70403	Environmental Consulting	Yes
2.		
3.		

**J. Please specify the total number of support personnel that may assist in the completion of this Project:  
Total Number: 59**

\_\_\_\_\_

## 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:**

Lucas Watkins, Principal

**Project Assignment:**

Principal

**Name of Firm with which associated:**

ELOS Environmental, LLC

**Years' experience with this Firm:**

18 years

**Education: Degree(s)/Year/Specialization:**

MS / 2005 / Biological Sciences

BS / 2000 / Forest Management

**Active registration: Year first registered/discipline:**

--2010/LA Arborist, License No. 19-1827; --LA Licensed Horticulturist; --LA Licensed Nuisance Wildlife Control Operator; --Certified FERC Regulatory Overview and Guidance; --Certified Prescribed Burn Manager; --Certified NPDES Erosion Inspector; --Certified Commercial Pesticide Applicator; --Certified National Highway Institute: NEPA and the Transportation Decision Making Process

**Other experience and qualifications relevant to the proposed Project:**

Mr. Watkins is the founding Principal of ELOS. Mr. Watkins ensures that ELOS acquires the best tools and techniques to guarantee efficient and cost-effective delivery of services to clients. His experience includes environmental regulatory compliance and project management. This includes the management of large-scale, multi-faceted projects, such as wetland restoration implementation, government grant management, complex construction projects, and disaster recovery debris removal efforts. His key strengths include wetland delineations, wetland permitting, wetland restoration, NEPA compliance, ASTM Phase I ESAs, stormwater management, FERC regulatory overview and guidance, endangered species surveys, and timber and forest management.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Brian Fortson, Senior Project Manager
<b>Project Assignment:</b>
Senior Project Manager
<b>Name of Firm with which associated:</b>
ELOS Environmental, LLC
<b>Years' experience with this Firm:</b>
11 years
<b>Education: Degree(s)/Year/Specialization:</b>
BS / 1995 / Wetland Ecology
JD / 2006 / Civil Law
<b>Active registration: Year first registered/discipline:</b>
--Wetland Delineation Course, Louisiana State University Wetland Biochemistry Institute, 1996
<b>Other experience and qualifications relevant to the proposed Project:</b>
Mr. Fortson leads the permitting efforts for multiple projects for local development and infrastructure improvements efforts. Mr. Fortson provides technical expertise on many other projects for which he is not the lead scientist. He served as a Planning Technician, Land Use Planner, Environmental Specialist, and Coastal Wetland and Environmental Specialist, and Coastal Wetland and Environmental Resources Manager for St. Tammany Parish Government from 1988 to 2013. He was responsible for the administration of the St. Tammany Parish Local Coastal Program under the Coastal Zone Management Act and was responsible for managing the natural resource permitting efforts. Mr. Fortson was the Coastal Wetlands Planning Protection and Restoration Act (CWPPRA) representative for St. Tammany Parish and has proposed and presented multiple coastal restoration projects and facilitated the approval of projects through the permitting process.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b> Basile Dardar, Project Manager
<b>Project Assignment:</b> Project Manager and Environmental Scientist
<b>Name of Firm with which associated:</b> ELOS Environmental, LLC
<b>Years' experience with this Firm:</b> 2.5 years
<b>Education: Degree(s)/Year/Specialization:</b> BS / 2014 / Biological Sciences
<b>Active registration: Year first registered/discipline:</b> --2018/USACE Wetland Delineation --2020/OLDEB Certified Oyster Biologist --2019/Open Water Diving Certification --TWIC Card
<b>Other experience and qualifications relevant to the proposed Project:</b> Mr. Dardar is a project manager and environmental scientist who has a wide range of experience including: permitting, environmental surveying, damage surveying, developing reports, research, sampling, testing, and coordinating with agencies and clients. Mr. Dardar provides environmental expertise, accurate reporting, and a high degree of professionalism to every project. He is also a certified oyster biologist, as well as a certified diver. His experience with marine biology in Louisiana coastal waters, including his experience as a commercial fisherman, makes him a unique asset to the ELOS team.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b> Hunter Perrilloux, Project Manager
<b>Project Assignment:</b> Project Manager and Environmental Scientist
<b>Name of Firm with which associated:</b> ELOS Environmental, LLC
<b>Years' experience with this Firm:</b> 4.5 years
<b>Education: Degree(s)/Year/Specialization:</b> BS / 2018 / Biological Science
<b>Active registration: Year first registered/discipline:</b> --2021/FAA Drone Pilot --2020/USACE Wetland Delineation
<b>Other experience and qualifications relevant to the proposed Project:</b> Mr. Perrilloux is a project manager and environmental scientist who specializes in wetland delineations. Mr. Perrilloux serves as a field crew leader for wetland delineations at ELOS and assists in the processing of data and the creation of wetland delineation reports. He has worked on various environmental projects including mitigation bank monitoring, endangered species monitoring, and cultural resources surveys. As an FAA licensed drone pilot, he is able to collect and process drone footage for applications such as damage survey reports and environmental investigations.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Michael Bellone, Director of Environmental Services and Regulatory Affairs
<b>Project Assignment:</b>
Director of Environmental Services and Regulatory Affairs
<b>Name of Firm with which associated:</b>
ELOS Environmental, LLC
<b>Years' experience with this Firm:</b>
1 year
<b>Education: Degree(s)/Year/Specialization:</b>
MS / 1991 / Environmental Sciences
BS / 1983 / Geological Sciences
<b>Active registration: Year first registered/discipline:</b>
--Registered Professional Geologist in the following states: Mississippi #520; Alabama #800; Tennessee #3924; Wisconsin #320; Texas #4344; --LA Licensed Contractor #50824; --LA Licensed Louisiana Contractor-Hazardous Waste Treatment or Removal #50824; --OSHA Certified Waste Site Supervisor; --Certified Hazardous Materials Manager #3849
<b>Other experience and qualifications relevant to the proposed Project:</b>
Mr. Bellone has directed multi-disciplinary environmental projects at over 1,200 sites throughout the United States, including 700 Phase I and Phase II Environmental Site Assessments (ESA) for governmental agencies, commercial clients, and private industry. He is experienced in conducting and managing multimedia environmental audits, Phase I, II, and III ESAs, contamination assessments, and remedial actions (soil, groundwater, and surface water). His specialties include hydrogeological investigations, site assessments, hazardous waste site closures, environmental permitting, compliance audits and health and safety audits, and the design of multimedia remedial systems. Mr. Bellone provides senior oversight and assists ELOS with fieldwork, report writing, data processing, and file organization to complete projects concerning Phase I and II ESAs and other NEPA-related environmental assessment documentation.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b> Karim Belhadjali, Senior Coastal Project Manager
<b>Project Assignment:</b> Senior Coastal Project Manager
<b>Name of Firm with which associated:</b> ELOS Environmental, LLC
<b>Years' experience with this Firm:</b> 1 year
<b>Education: Degree(s)/Year/Specialization:</b> MS / 1994 / Fisheries  BS / 1991 / Marine Biology
<b>Active registration: Year first registered/discipline:</b> -USACE Wetland Certification, 2017 -LDAF Commercial Pesticide Application #00177825, 20196 -Wetland Training Institute Delineator
<b>Other experience and qualifications relevant to the proposed Project:</b> With a profound understanding of habitat restoration and its vital role in fostering resilient communities, Karim Belhadjali brings forward-thinking expertise to coastal resilience planning. For the past two decades, he has led transformative coastal ecosystem restoration and flood risk reduction projects in Louisiana as the program manager for the State of Louisiana's Coastal Master Plan. With a track record of adeptly collaborating and fostering partnerships between diverse governmental agencies and the private sector, Mr. Belhadjali works with ELOS on various projects calling for significant environmental assessments and those impacting coastal resiliency and restoration.

## TEC Professional Services Questionnaire

<b>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.</b>		
<b>PROJECT NO. 1</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p>Bucktown Wheel Wash Emergency Authorization Requests (EUA) Jefferson Parish, LA</p> <p>Michelle M. Gonzales, CFM Director Ecosystem and Coastal Management Jefferson Parish Government 1221 Elmwood Pk Blvd Suite 310 Jefferson, LA 70123 mgonzales@jeffparish.net O: 504-736-6653 C: 225-223-2719</p>	<p>ELOS was contracted to prepare and submit emergency authorization requests and to prepare and submit formal permit applications requesting authorization from the U.S. Army Corps of Engineers (USACE) to conduct prop-washing at the mouth of Bucktown Marina basin near its confluence with Lake Pontchartrain on an approximately 1.50-acre site located in New Orleans, LA.</p> <p>ELOS obtained an emergency authorization requests and after-the-fact permit application from the USACE for identifying the possibility of impacting waters under federal jurisdiction, including wetlands and navigable waters. ELOS provided a clear documentation demonstrating the emergency nature of the situation, prompting USACE to swiftly evaluate the request and potentially issue authorization to proceed with necessary activities such as flood response or environmental remediation.</p> <p>The wheel wash system is positioned at exits of construction sites or quarries where vehicles are required to pass through before entering public roads to help in maintaining road safety by reducing the risk of accidents caused by slippery road conditions due to mud and debris from construction vehicles. Additionally, the wheel wash systems contributed to environmental protection by minimizing soil erosion and contamination of nearby water bodies with sediment-laden runoff from construction sites.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
April 2024	NA	\$30,000

## TEC Professional Services Questionnaire

<b>PROJECT NO. 2</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p>Veterans Memorial Boulevard Pump Stations Jefferson Parish, LA</p> <p>Blake Vutera, P.E. Gulf South Engineering and Testing, Inc. 15 Veterans Memorial Blvd Kenner, LA 70062 504-305-4401 ex 103 bvutera@gulfsoutheng.com</p>	<p>ELOS is currently contracted to provide Environmental Services in support of the Jefferson Parish Pump Stations Project on Veterans Memorial Boulevard in Jefferson Parish, LA. ELOS is responsible for applying for Coastal Use, Clean Water Act Section 404, and Rivers and Harbors Act Section 408, and levee permits for two pump stations located north and south of Veterans Memorial Boulevard along the west bank of the 17th Street Canal in New Orleans. The designs include the outflow pipe being lifted above the existing levee and through the existing floodwall. Additional access gates are also included in the designs to allow for maintenance. Due to the proposed impacts to the levee and floodwalls, the project must be reviewed by the Completed Works section of the U.S. Army Corps of Engineers for compliance with Section 408. This review process includes preparing an Environmental Assessment to determine potential impacts on cultural resources, threatened and endangered species, essential fish habitat, water quality, air quality, etc. The project's purpose is to improve street drainage at the Veterans Boulevard crossing of the 17th Street Canal.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2023	NA	\$46,969

## TEC Professional Services Questionnaire

<b>PROJECT NO. 3</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
West Esplanade Boulevard Pump Station Jefferson Parish, LA  Kazem Alikhani ECM Consultants, Inc. 1301 Clearview Parkway Suite 200 Metairie, LA 70001 504.885.4080 kazem@ecmconsultants.com	ELOS is currently contracted to provide Environmental Services in support of the Jefferson Parish Pump Station Project on West Esplanade Boulevard in Jefferson Parish, LA. ELOS is responsible for applying for Coastal Use, Clean Water Act Section 404, and Rivers and Harbors Act Section 408, and levee permits for a proposed pump station to be located in the neutral ground of West Esplanade Boulevard across Orpheum Avenue from the 17th Street Canal. The designs include the outflow pipe being lifted above the existing levee and floodwall into the canal. Due to the proposed impacts to the levee from outflow pipe support piles, the project must be reviewed by the Completed Works section of the U.S. Army Corps of Engineers for compliance with Section 408. This review process includes preparing an Environmental Assessment to determine potential impacts on cultural resources, threatened and endangered species, essential fish habitat, water quality, air quality, etc. The project's purpose is to improve street drainage in the West Esplanade/Lake Avenue vicinity.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2022	NA	\$24,306

## TEC Professional Services Questionnaire

<b>PROJECT NO. 4</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Lafitte Area Levees Jefferson Parish, LA  Mark Schutt Engineer Meyer Engineers 4937 Hearst Street, Suite 1B Metairie, LA 70001 504-885-9892	ELOS was contracted to perform a wetland delineation and submit a joint permit application to the U.S. Army Corps of Engineers and the Louisiana Department of Energy and Natural Resources, Office of Coastal Management for several proposed levee improvements including levee lifts, new levee segments, and corresponding pump stations for those levee systems. ELOS also conducted environmental assessments and cultural resources surveys for several of these sites: Lower Lafitte Orange Street, Goose Bayou, Pen Levee, Goose Bayou Rachel Street Pump Station, Jones Point Levee, Jones Point Carmelite Pump Station, Jones Point Trahan & Jones Point Pump Station, Paillet Levee, Town of Jean Lafitte Gloria Drive Pump Station, Town of Jean Lafitte Highway 45 Pump Station, and Upper LA 45. The scope of work included: wetland delineations, permitting, agency communication, cultural resources surveys, environmental assessments, and section 106 reviews.  Project Sites: Lower Lafitte Orange Street Goose Bayou Pen Levee Goose Bayou Rachel Street Pump Station Jones Point Levee Jones Point Carmelite Pump Station Jones Point Trahan & Jones Point Pump Station Paillet Levee Town of Jean Lafitte Gloria Drive Pump Station Town of Jean Lafitte Highway 45 Pump Station Upper LA 45	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
Ongoing	NA	\$975,586

## TEC Professional Services Questionnaire

<b>PROJECT NO. 5</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p>Tangipahoa Parish RESTORE Act Breakwater Project Tangipahoa Parish, LA</p> <p>Robby Miller Parish President 206 E Mulberry St Amite City, LA 70422 985-748-3211</p>	<p>To move forward several projects in Tangipahoa Parish's multiyear plan under the RESTORE Act, which dedicated oil spill funds to restoring the Gulf Coast region, ELOS was contracted to complete a feasibility study for dredging the bar channel at the mouth of the Tangipahoa River and restoration of a boat launch. The study included a summary of economic and environmental benefits, a mitigation plan and its costs, a permitting plan, and other regulatory requirements.</p> <p>ELOS also updated prior Geographic Information System (GIS) analysis of sediment and land accretion behind a previously built rock breakwater. Land loss between 1989 and 2013 at the shoreline in this area was calculated to be 55 acres. Between 2014, when the first phase of the project was completed, and 2016, approximately 45 acres of land and sediment have been captured behind the breakwater through natural processes. This analysis was not only key to securing additional funding from the U.S. Army Corps of Engineers (USACE), but more importantly, it enabled the parish to use the dredged material beneficially to accelerate the natural land-building process.</p> <p>During Phase II of the breakwater project, ELOS prepared the and received the complex construction permits, completed cultural resources management services to relocate any existing, submerged, or eroding archaeological sites, and monitored construction and the project's post-construction, land-building success. The "Lake Pontchartrain Shoreline Protection Project" was given the Best Restored Shores Award for 2023 by the American Shore &amp; Beach Preservation Association.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
Ongoing	NA	\$130,000

## TEC Professional Services Questionnaire

### PROJECT NO. 6

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
<p>West Shore Lake Pontchartrain Connector Levee St. James Parish, LA</p> <p>Kevin O’Gorman, P.E. Intracoastal Consultants, LLC 2351 Energy Dr, Ste 1010 Baton Rouge, LA 70808 225-308-3213</p>	<p>ELOS has been contracted for environmental services related to the installation of the West Shore Lake Pontchartrain Connector Levee. The project includes installation of earthen levees, a pump station, a gravity drainage system, and water control structures as flood control measures to allow the levee to remain an open system until circumstances require closure. Specifically, ELOS is completing a geotechnical boring survey and permit application (the survey requires 11 soil boring locations and 14 cone penetration test locations), completing a joint permit application to the U.S. Army Corps of Engineers (USACE) and the Louisiana Department of Energy and Natural Resources (Office of Coastal Management), performing a wetland delineation and final report to receive a jurisdictional determination from USACE, performing a Section 106 consultation and desktop review, and coordinating agencies for the approximately 99-acre site in St. James Parish. The preliminary actions will also determine whether ELOS will complete permits for additional agency coordination under the Clean Water Act and Rivers and Harbors Act in addition to levee permits. One important aspect of this project is coordinating not only agencies, but also adjacent land owners and securing access to complete data collection and surveys.</p> <p>After receiving a notice to proceed in March 2024, ELOS has already completed the wetlands delineation report and submitted it for consideration to receive a jurisdictional determination. The Section 106 consultation and desk review is also underway, showing that ELOS works diligently and quickly to ensure the project moves forward effectively.</p>	
<b>Completion Date (Actual or estimated)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
Ongoing	NA	\$144,000

## TEC Professional Services Questionnaire

<b>PROJECT NO. 7</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p>Plaquemines Parish Coastal Team Consulting Plaquemines Parish, LA</p> <p>Vincent Frelich Director of Coastal Restoration Plaquemines Parish Government 333 F. Edward Hebert Blvd., Building 100, Suite 212, Belle Chasse, LA 70037 (504) 297-5629 vfrelich@ppgov.net</p>	<p>ELOS participated as a consulting team member for the implementation of the seven primary Plaquemines Parish Coastal Strategic Implementation Plan ridge restoration projects, conceptualized as part of the Plaquemines Parish Coastal Plan. ELOS assisted in designing, evaluating, and permitting a series of potential ridge and marsh restoration projects in Plaquemines Parish. The ridge projects are evaluated for their potential to reduce impacts. The assessment for these projects evaluated plant species, height, diameter, and densities along the ridges. ELOS performed ecological assessments for the large-scale coastal ridge and marsh restoration projects for inclusion in its Coastal Master Plan.</p> <p>ELOS worked with different engineering firms to design and assess the benefits and impacts associated with the construction of ridge formations and adjacent marsh platform creation through the use of dedicated sediment delivery from dredging in the Mississippi River and transporting the sediment through long distance pipelines to the project site. ELOS also coordinated the geotechnical and soil boring effort associated with the design and compiled the design footprint information from A&amp;E Teams associated with the Plaquemines Parish Ridge Restoration Projects and worked with those A&amp;E Teams to ensure that the ratio between marsh impacts from ridge construction and benefits resulting from marsh creation was adequate to establish a net benefit in habitat credits when constructed.</p> <p>All teams have submitted shape files and tabulated impact data which has been assessed and compiled by ELOS. A spreadsheet containing all relevant impact estimations has been produced and published on the Coastal Team Project Management website at Huddle.com.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2014	NA	\$143,000

## TEC Professional Services Questionnaire

<b>PROJECT NO. 8</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p>Tangipahoa Parish Coastal Master Plan</p> <p>Robby Miller Parish President 206 E Mulberry St Amite City, LA 70422 985-748-3211</p>	<p>ELOS has been contracted to provide consulting services to Tangipahoa Parish Government in developing and updating its Coastal Master Plan. The primary objective of this plan is to develop a comprehensive and actionable strategy for coastal resilience, protection, and sustainable development in the parish. The plan addresses the critical challenges and opportunities associated with the coastal region of Tangipahoa Parish, including wetland restoration, shoreline protection, drainage improvements, and floodplain management. It is a multifaceted approach that integrates scientific, engineering, economic, and community perspectives to ensure the long-term sustainability and resilience of the parish's coastal areas.</p> <p>To develop the original plan, ELOS collected and analyzed data related to the coastal geography, storm surge modeling, hazard data, and existing studies on coastal restoration and flood protection throughout the region. Stakeholder meetings with residents, local businesses, governmental agencies, and non-governmental agencies were held to make sure the plan's components aligned with the needs and aspirations of Tangipahoa Parish residents. The resilience strategies were then aligned with priorities of similar plans including coastal plans and RESTORE Act plans. The final component of the plan involved feasibility and financial implementation with reliable funding sources and timelines.</p> <p>ELOS is currently working with the Parish to add new projects into the plan using the same comprehensive approach.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
Ongoing	NA	\$148,640

## TEC Professional Services Questionnaire

<b>PROJECT NO. 9</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p>Bayou Terre Aux Boeufs Ridge Restoration Armoring</p> <p>St. Bernard Parish, LA</p> <p>John Lane St. Bernard Parish Government 8201 West Judge Perez Drive Chalmette, LA 70043 504.278.4223 jlane@sbsp.net</p>	<p>ELOS was contracted to provide the wetlands delineation and permitting for 20,420 linear feet of armoring of the Bayou Terre Aux Boeufs Ridge Restoration Project in Delacroix, LA. ELOS field crews collected soil, vegetation, and hydrology data for the wetlands delineation of 16 acres, and prepared a request for jurisdictional determination (JD). The JD was approved in August 2017. ELOS prepared a permitting strategy prior to submitting any applications that accounted for the need for a cultural resource survey as a condition of permits for both the geotechnical borings as well as construction. ELOS identified sensitive areas within the project and worked with geotechnical engineers to modify the boring plan to avoid these. Subsequently, ELOS arranged a pre-application meeting with the LASHPO and received approval on the modified work plan. This strategy prevented cost overruns and delays. Approximately 250 shovel test plots were investigated for the presence of artifacts, which were then evaluated and cataloged. All data points were located with GPS points and organized in a GIS database allowing ELOS to share the data by way of shapefiles and map displays that are accurate at sub-meter resolution. ELOS submitted the geotechnical permit application to the USACE (borings are assigned a No Determination of Significant Impacts by the Office of Coastal Management). ELOS also provided on-site monitoring once the construction phase of the project commenced.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2019	NA	\$126,000

**TEC Professional Services Questionnaire**

**PROJECT NO. 10**

<b>PROJECT NO. 10</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Lake Lery Marsh Creation and Rim Restoration  St. Bernard Parish, LA  John Lane St. Bernard Parish Government 8201 West Judge Perez Drive Chalmette, LA 70043 504.278.4223 jlane@sbgp.net	ELOS was contracted to assist St. Bernard Parish Government with professional environmental and cultural resource investigations to support the large-scale marsh creation and rim restoration initiative. The project created 177 acres of vital marsh within Lake Lery, nourished an additional 209 acres, and developed a rock embankment along the northwestern sector of Lake Lery that improved shoreline protection. ELOS personnel have collected data with the assistance of our marine archaeologist and completed an environmental review of site conditions to support a joint permit application to the regulatory agencies authorizing the project. ELOS has concurrently consulted with the U.S. Army Corps of Engineers and the Louisiana State Historic Preservation Office to establish the Area of Potential Effect and determine the required level of cultural resource investigations. Subsequently, ELOS personnel have completed a review of available cultural resource data and previous investigations to determine the potential likelihood of the presence of cultural resources. The collected information and data are to be provided to Parish personnel for use in completing the project.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2022	NA	\$121,440

**TEC Professional Services Questionnaire**

<b>M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.</b>		
<b>Parties:</b>		<b>Status/Result of Case:</b>
<b>Plaintiff:</b>	<b>Defendant:</b>	
<b>1. None</b>	<b>None</b>	<b>None</b>
<b>2.</b>		
<b>3.</b>		
<b>4.</b>		
<b>N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed project.</b>		
See attached items below.		

## TEC Professional Services Questionnaire



έλος (élos)  
1. marsh, swamp, bog

### Overview & History

Established in 2006 by two young entrepreneurs from southeast Louisiana, ELOS is a professional consulting firm with a background in environmental services, offering an interdisciplinary approach to program and project management. We are part of Environmental Systems Group, backed by Bernhard Capital.

Our familiarity with federal, state, and local agencies – combined with rich expertise in relevant scientific technologies – has resulted in streamlined services for our clients, saving them immeasurable time and money while achieving their goals. Because of our familiarity with government programs and project processes, ELOS can provide invaluable services and support to private businesses and government entities at all levels – giving them more time to do what matters.

We help manage resources, develop grant proposals, and secure environmental clearances and permits for various projects. Our storied company history and background allow us to provide world-class program management, environmental consulting, Geographic Information System (GIS) services, and other innovative technological solutions to meet even the most complex client needs.



541620, 541370GIS

[www.elosenv.com](http://www.elosenv.com)

985.662.5501

## TEC Professional Services Questionnaire

Our Services

### Program & Project Management

- Program Management
- Grant Management
- FEMA Public Assistance
- Disaster Recovery
- Construction Management

### Permitting Applications and Regulatory Compliance

- Wetland Delineations / Jurisdictional Determinations
- Permitting
- Biological Assessments and Monitoring
- Cultural Resources

### Environmental Services

- NEPA Compliance
- Environmental Due Diligence
- Environmental Impact Analysis
- Categorical Exclusions
- Phase I, Phase II and Phase III Environmental Site Assessments
- Brownfields Program
- Soil and Ground Water Investigations
- Environmental Remediation Services
- Air Quality Services
- Water/ Wastewater / Storm Water Permitting
- Solid and Hazardous Waste
- Industrial Hygiene Services

### Coastal Restoration and Resilience Services

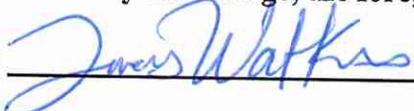
- Coastal Restoration Planning, Project Development, and Funding
- Coastal Resilience Planning
- Site Assessment and Analysis
- Ecosystem Restoration
- Climate Adaptation Strategies
- National Environmental Protection Act (NEPA) Compliance
- Coastal Use Permitting & Mitigation
- Construction Management and Environmental Monitoring
- Grant Procurement for Local Communities
- Watershed Management and Flood Mitigation Planning, Project Development, and Funding

### Innovative Technologies

- Renewable Energy Site Selection
- Leak-Detection & Repair (LDAR)
- GIS
- Drones
- Abstracting Services

TEC Professional Services Questionnaire

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

Signature:  Print Name: Lucas Watkins

Title: Principal Date: 7-3-2024

