



Routine Engineering Services for Water

submitted to: **Jefferson Parish Council**

submitted by: **WSP USA Inc.**

June 21, 2024



Technical Evaluation Committee (TEC) Questionnaire
Instructions

- The Technical Evaluation Committee (TEC) Questionnaire shall be used for professional services related to architecture, engineering, or survey projects.
- **The TEC Questionnaire should be completely filled out. Complete and attach ALL sections. Insert “N/A” or “None” if a section does not apply or if there is no information to provide.**
- Questionnaire must be signed by an authorized representative of the Firm. Failure to sign the questionnaire shall result in disqualification of proposer pursuant to J.P. Code of Ordinances Sec. 2-928.
- All subcontractors must be listed in the appropriate section of the Questionnaire. Each subcontractor must provide a complete copy of the TEC Questionnaire, applicable licenses, and any other information required by the advertisement. Failure to provide the subcontractors' complete questionnaire(s), applicable licenses, and any other information required by the advertisement shall result in disqualification of proposer pursuant to J.P. Code of Ordinances Sec. 2-928.
- If additional pages are needed, attach them to the questionnaire and include all applicable information that is required by the questionnaire.

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ 24-013-Provide routine engineering services for Water Projects in Jefferson Parish

B. Firm Name & Address:

WSP USA Inc.
1100 Poydras Street
Suite 1175
New Orleans, LA 70163

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:

Ian Chaney, PE
Supervising Engineer
277 Bendix Rd., Suite 300
Virginia Beach, VA 23452
757-466-9615
ian.Chaney@wsp.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.

Rebecca Howell, PE
Assistant Vice President Water Resources Engineer
301 N. Main Street, Suite 2200
Baton Rouge, LA 70801
225-508-3872
Rebecca.Howell@wsp.com

1100 Poydras Street
Suite 1175
New Orleans, LA 70163

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

<u>3</u> Administrative	<u> </u> Estimators	<u>2</u> Specification Writers
<u> </u> Architects (Licensed)	<u> </u> Geologists	<u>2</u> Structural Engineers
<u> </u> Chemical Engineers	<u>2</u> Geotechnical Engineers	<u>1</u> Graduate Engineers
<u>8</u> Civil Engineers	<u> </u> Interior Designers	<u>6</u> Project Managers
<u>2</u> Construction Inspectors	<u> </u> Landscape Architects	<u> </u> Clerical
<u> </u> Ecologists	<u> </u> Land Surveyor	<u>2</u> Grant/Funding Specialist
<u>1</u> Electrical Engineers	<u>1</u> Mechanical Engineers	<u>2</u> Sanitary Engineers
<u>4</u> Engineer Intern	<u>2</u> Environmental Engineers	
<u> </u> Professional Land Surveyors		38 TOTAL

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

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

TEC Professional Services Questionnaire

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

1. None

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. None		
2.		
3.		

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

None

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:

Rebecca D. Howell, PE
Assistant Vice President Water Resources Engineer

Project Assignment:

Project Manager / Professional in Charge

Name of Firm with which associated:

WSP USA Inc.

Years' experience with this Firm:

2.5

Education: Degree(s)/Year/Specialization:

BS, Civil Engineering, Louisiana State University / 2012
BS, Atmospheric Science, University of Louisiana at Monroe / 2010

Active registration: Year first registered/discipline:

Professional Engineer: Louisiana (PE.0042559)/ 2018 / Civil, Mississippi (PE 34228) / 2023 / Civil

Other experience and qualifications relevant to the proposed Project:

Rebecca is a civil engineer with consulting experience in engineering, design, project management. She is committed to providing quality service to stakeholders in the private and public sector for the design, management, bidding/contracting and construction administration for a broad range of civil engineering projects. Rebecca's project experience includes water distribution system design, sanitary and storm water collection systems, drainage impact analysis, HEC-RAS modeling (1D and 2D), sanitary sewer lift station and force main design, off-system bridge replacements, subdivision, and commercial site design.



REBECCA DAVEZAC HOWELL, PE

Assistance Vice President, Water Resources Engineer



CAREER SUMMARY

Rebecca Davezac Howell is a civil engineer with consulting experience in engineering, design, project management. She is committed to providing quality service to stakeholders in the private and public sector for the design, management, bidding/contracting and construction administration for a broad range of civil engineering projects. As project manager, she is responsible for project planning, delegating, and organizing resources as well as tracking costs and managing budgets for multiple engineering projects as well as managing design teams and sub-consultants while leading complex projects. Rebecca's project experience includes water distribution system design, sanitary and storm water collection systems, drainage impact analysis, HEC-RAS modeling (1D and 2D), sanitary sewer lift station and force main design, off-system bridge replacements, subdivision, and commercial site design.

Years with the firm

2.5

Years total

12

Education

Louisiana State University,
BS in Civil Engineering,
2012

University of Louisiana at
Monroe, BS in Atmospheric
Science, 2010

Professional Registrations

Professional Engineer:
LA 0042559; MS 34228

Professional Certifications

Advanced Benefit Cost
Analysis Training,
National Emergency
Planning and Training
Association, 2019

RELEVANT PROJECT EXPERIENCE

- 2023-035D-WRB Kenner Waterline Project (21st Street to 14th Street), Jefferson Parish, LA. Project Engineer/Project Manager. WSP has been selected to provide design services for installation of a new 42" transmission line along Airport Access Rd from 21st Street to 14th Street. Anticipated installation methods will include CompressionFit, open cut and horizontal direction drilling (HDD). The segment of waterline includes an aerial crossing over West Metairie Canal, which will be relocated under the canal via HDD installation method. Project is currently in contract negotiations with Jefferson Parish and work is anticipated to start Q3 of 2024.
- Program Management, Port of South Louisiana, Board of Commissioners Port of South Louisiana, St. Charles, St. James and St. John Parishes, Louisiana. Project Manager/Project Engineer. The Program Management assignment includes but is not limited to oversight of the Master and Strategic Planning efforts including implementation, Grants Application and Management, Procurement Support including Assessment of Consultant Capabilities, Alternative Delivery and Public Private Partnerships, Design Management and Construction Administration through the life of the contract. The Program also includes the creation of a Project Controls system for the Port. As Project Manager and Project Engineer, Ms. Howell is responsible for project programming, holding pre-design kickoff meetings between the Port and design consultants, design oversight for civil engineering projects, which includes review of consultant's fee proposal, preliminary and final construction documents and Engineer's Construction Cost Estimate. Design oversight includes engineering oversight of the Globalplex and Executive Regional Airport Drainage Master Plan and Access Road to Building 71 Projects. She is responsible for compiling consultant monthly project status updates to the Port for projects in design and construction, which are provided to the Board of Commissioners for the monthly Construction Meeting. As a task order based contract, Rebecca is also responsible for scoping WSP task orders, developing manhour estimates, budgets and schedules, as well as delivering each task on time and within budget.
- Hwy 3127 Oxidation Pond, Hahnville, Louisiana: Project Manager. St. Charles Parish contracted WSP for professional services to perform a feasibility study and analysis for an oxidation pond in Hahnville, LA. WSP is conducting a planning-level study to evaluate available data and establish a basis-of-design concept for a new 2 MGD lagoon-type wastewater treatment system (oxidation pond) to discharge into a natural wetland for wetland assimilation. The proposed facility includes: two-cell lagoon, aeration system, circulation pumps, pond dike, headworks that include mechanical trash rake/bar screening, emergency relief structure including emergency disinfection, open-channel UV disinfection, provision for standby power, and a utility building to house electrical service for misc. storage. As Project Manager, Rebecca was responsible for developing the project schedule, managing a team of subconsultants, holding bi-weekly TEAMS meetings with the design team, invoicing, QA of the final deliverable package and successfully delivering the project within the 6 month timeline set by the LDEQ loan. The study included a basis of



REBECCA DAVEZAC HOWELL, PE

Assistance Vice President, Water Resources Engineer

design, conceptual design plans, technical specifications and Preliminary Construction Cost Estimate.

- BREC Greenwood Park and Baton Rouge Zoo Master Plan Phase 1, Baker, Louisiana. Project Manager/Project Engineer: Phase 1 of the master plan included infrastructure improvements to the existing Baton Rouge Zoo that were required for re-accreditation. Rebecca led a team of engineers in the design of infrastructure improvements including the following: miscellaneous onsite drainage improvements and stormwater outfall improvements, upgrades to existing water distribution system which includes the addition of 12,000 linear feet of new water main (potable and fire protection) to create a loop distribution system with a secondary tie-in to the waterworks water main along Highway 19, 7,200 linear feet of new gas main, separation of the combined sanitary and storm sewer system which required installing 700 linear feet of gravity sewer, along with 6,300 linear feet of subsurface drainage system conveying stormwater from the exhibits to an onsite stormwater pond and treatment system. Rebecca also led the design for converting the onsite wastewater treatment plant and wetland pond to an onsite detention pond for exhibit stormwater with a 1,000-gallons-per-minute pump and ultraviolet disinfection system to treat the exhibit influent prior to discharging into Cypress Bayou. As project manager, she attended weekly consultant team calls, coordinated the civil design with architecture, mechanical, electrical, life safety and landscaping consultant team members, presented proposed infrastructure improvements to key members of the client staff (BREC) for the schematic design, design development, and final design phases, overseeing the development of the contract documents.
- Isle de Jean Charles Resettlement Project – Phase III, Louisiana Office of Community Development – Disaster Recovery Unit (OCD-DRU), Terrebonne Parish, Louisiana, Project Engineer. Mrs. Howell led a team of engineers in the design of a 64-lot subdivision which included 2 miles of concrete roadway and sidewalks with a combination of open ditch and subsurface roadside drainage, 7,700 linear feet of gravity sewer, two sanitary sewer lift stations and 2.5 miles of sanitary sewer force main, three recreational ponds and one dry detention pond and addition of a right-turn lane along Highway 24. The project, involved the master planning of a new development to accommodate voluntary resettlement of an island community in response to significant environmental degradation from ongoing coastal land loss, subsidence, and sea level rise. Her role also included obtaining permits from Terrebonne Parish and LADOTD, Construction Administration and delivering the project on time with deadline constraints dictated by the project funding source. Client: Louisiana Land Trust
- Barringer Foreman Sanitary Sewer Improvements, Baton Rouge, Louisiana: project manager and design engineer for the Barringer Foreman commercial development sanitary sewer improvements. The project included decommissioning the existing wastewater treatment plant, design and installation of 900-linear-foot force main to tie into public gravity sewer system and pump upgrades to the existing on-site lift station.
- Harveston District Pump Station and Force Main Phase 1, Baton Rouge, Louisiana: project engineer led a team of engineers in the design of the first residential and commercial phases of the pump stations and force main. Ms. Howell led the team in the design of the 600 gpm sanitary sewer duplex lift station and 16,000 LF of forcemain, ranging in sizes from 8" to 16". The force main system discharges into an onsite wastewater treatment/wetland assimilation plant and included a bypass connection to an existing 30" public sanitary sewer forcemain. This project included a jack and bore of a 16" forcemain under a state highway. The lift station was designed to meet initial and future/full-buildout wastewater conditions of the development.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Ian Chaney, PE National Director – Geotechnical & Tunneling Senior Vice President
Project Assignment:
Principal in Charge
Name of Firm with which associated:
WSP USA Inc.
Years' experience with this Firm:
21
Education: Degree(s)/Year/Specialization:
MS, Geotechnical Engineer, Virginia Technical Institute / 2002 BS, Mining Engineering, Virginia Technical Institute / 2001
Active registration: Year first registered/discipline:
Professional Engineer: Louisiana (PE. 0042288) / 2018 / Civil Professional Engineer (other states): Virginia, Tennessee, Louisiana, Florida, North Carolina, Kentucky
Other experience and qualifications relevant to the proposed Project:
Ian Chaney is the National Director for Geotechnical & Tunneling for WSP. He is experienced in multi-disciplinary project management and leading geotechnical project efforts. His technical experience includes providing detailed and concept designs for marine facilities, tunnels, bridges and buildings that consider site-specific geotechnical and environmental conditions, as well as the spectrum of multi-disciplinary concerns inherent with large infrastructure construction activities.



IAN J. CHANEY, P.E.

*National Director – Geotechnical & Tunneling
Senior Vice President*



PROFILE

Ian Chaney is the National Director for Geotechnical & Tunneling for WSP. He is experienced in multi-disciplinary project management and leading geotechnical project efforts. His technical experience includes providing detailed and concept designs for marine facilities, tunnels, bridges, and buildings that consider site-specific geotechnical and environmental conditions, as well as the spectrum of multi-disciplinary concerns inherent with large infrastructure construction activities.

PROFESSIONAL EXPERIENCE

Years of Experience

21

Education

*M.S. Geotechnical
Engineering, Virginia Tech,
2002*

*B.S. Mining Engineering,
Virginia Tech, 2001*

Professional Registrations

*Professional Engineer:
Virginia, Tennessee,
Louisiana, Florida, North
Carolina, Kentucky*

Professional Affiliations

*American Society of Civil
Engineers*

*Underground Construction
Association of SME*

*Deep Foundations
Institute*

Mid-Barataria Sediment Diversion Project – New Orleans, Louisiana: As part of this CMAR project to design an intake structure and 2-mile long conveyance channel from the Mississippi River, Ian is the lead designer and WSP project manager providing designs for a concrete intake approach. Options considered were floating U-structures, able to be placed 400 feet out into the Mississippi River, cast-in-place concrete structures with sheet pile seepage cutoffs, and a bored tunnel. The U-structure is being advanced and is being constructed on a piled foundation. At completion, the project will accommodate a diverted flow of more than 75,000 cfs of sediment-laden water that will ultimately be deposited and dispersed into the Barataria Bay, enabling marsh creating for future decades.

Gamesa Offshore Wind Turbine, Chesapeake Bay, Virginia: Project Manager responsible for the final design and installation of what would have been the first offshore wind turbine constructed in the United States. Project was cancelled after design completion, and consists of the design and installation of a 5 megawatt wind turbine founded in an offshore environment. Detailed geotechnical and structural analysis were performed by WSP to account for the static loads and dynamic operation of the turbine, coupled with the hydrodynamic loading imparted by waves and currents. An extensive offshore geotechnical engineering investigation utilizing CPTs, soil borings and laboratory testing was implemented to define subsurface conditions, critical for determining lateral soil spring values and for analyzing pile drivability.

Virginia Port Authority – North Wharf Extension, Norfolk, Virginia: geotechnical engineer responsible for the geotechnical design of sheet pile bulkheads consisting of both cantilever sections and anchored sections. In addition, Ian provided recommendations for ground improvement behind the bulkhead consisting of deep vibro-compaction of soils and staged construction and was responsible for the testing and evaluation of the vibro-compaction operations.

Puerto Bolivar Due Diligence Study, Ecuador: Geotechnical Engineer responsible for the due diligence review of all geotechnical design and construction aspects of the project that included a 450m wharf expansion, rock bund and land reclamation, ground improvements, and dredging.

Hampton Roads Bridge-Tunnel Expansion, Norfolk, Virginia: Engineering Manager for this \$4B marine bridge and tunnel expansion project that consists of two new bored tunnels under the Hampton Roads shipping channel, artificial island expansion, access dredging, 4 miles of new bridge trestles and 4 miles of highway widening on land. On behalf of the owner, VDOT, Ian is responsible for all marine design and construction for this project that encompasses tunnels, island expansion, scour protection, Navy coordination and permitting. The project also includes two major excavations at the manmade islands – each over 50' deep and underwater, that are to be dewatered for launching and receiving the Tunnel Boring Machine.



IAN J. CHANEY, P.E.

*National Director – Geotechnical & Tunneling
Senior Vice President*

Dominion Energy VOWTAP Offshore Wind Turbines: Provided engineer-of-record geotechnical services to Orsted for two, 6 MW offshore wind turbines to be constructed 30 miles off the Virginia Beach coast line. Ian was responsible for the foundation design of the offshore monopile foundations, scour design and constructability aspects of the projects.

Midtown Tunnel – Martin Luther King Expressway Project, Norfolk and Portsmouth, Virginia: on this long-term, \$2.1B Mega-Project, Ian's duties started as the geotechnical design manager and finished with being the on-site Project Manager during construction. As the on-site Design Manager During Construction, Ian was responsible for daily management of design services during construction, claim mitigation and negotiation, and financial decisions regarding design work.

As geotechnical design manager for this immersed tunnel project that parallels an existing immersed tunnel, Ian was responsible for the management of all geotechnical, underground and marine aspects of the design and the coordination of these works between the civil, geotechnical and structural disciplines. Work consisted of dredging and foundation preparation for the immersed tubes, immersed tube design, island reclamation, buoyancy and transportation, as well as the design of the support-of-excavation system that included over 4,000 lf of in-water sheet piling, some of which utilized tiebacks and underwater struts, and that included two 50-foot deep dewatered excavations for the tunnel approaches. The scope also required the remediation of the Portsmouth Marine Terminal, which the tunnel passes through. The port facility was returned with a 750-psf live-load allowance, with no reduction in service due to the newly constructed tunnel.

UK Round 3 Offshore Wind Farm Study, Southern North Sea, UK: Ian provided review services for the design basis document and concept-level turbine support foundation details. The study investigated various foundation types (monopile, jacket and gravity base) for numerous turbine sizes.

Kwajalein Wind Project, Marshall Islands: for this pilot project on a remote Pacific Ocean Island, Ian prepared conceptual foundation designs for nearshore, 6-megawatt, 115-meter diameter wind turbines founded on a coral reef. Due to the remote nature of the project, conventional offshore construction methods could not be implemented. Therefore, more conventional, drilled foundation elements and tiebacks to "tune" the dynamic stiffness of the structure was utilized.

Brooklyn Navy Yard, Brooklyn, New York: geotechnical engineer responsible for the development and design for all aspects of a Confined Disposal Facility and the protection of an on-site sewer outfall, including design recommendations, construction specifications, and construction drawings. The sewer outfall, which would be affected and destroyed by the construction of the CDF, was designed to be protected by the placement of an A-frame tieback retaining wall or by a bridged structure in which the loads that would be imposed by the placement of dredge fill were transferred to the A-frame structure, anchored into the underlying bedrock. The CDF was optimized using staged surcharge programs that would ultimately allow for land reclamation for useable land space.

Chesapeake Bay Bridge-Tunnel – Parallel Thimble Shoals Tunnel Pursuit, Virginia Beach, Virginia: As pursuit manager, Ian was responsible for preliminary designs of both an immersed tunnel option and a bored tunnel option, including manmade island extensions, ground improvement, and protection of the existing tunnels and islands, built in the Chesapeake Bay on a subsurface consisting of up to 80 feet of soft compressible clays.

Enighed Pond Backland Improvement, St. John, US Virgin Islands: geotechnical engineer responsible for the design of a ground improvement scheme to make a 5-acre parcel land consisting of dredge spoils usable for port operations. Ground improvement

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Max Nassar Senior Vice President Senior Managing Director, Local Business Leader
Project Assignment:
Officer in Charge
Name of Firm with which associated:
WSP USA Inc.
Years' experience with this Firm:
6
Education: Degree(s)/Year/Specialization:
BA, Psychology Louisiana State University / 1976
Active registration: Year first registered/discipline:
None
Other experience and qualifications relevant to the proposed Project:
Max is a Louisiana native who has spent 30 years in executive level positions in Fortune 500 Companies in both the Manufacturing/Industrial Sector and AE Consulting Services Sector. Over the past 25 years, he has overseen a multiplicity of infrastructure projects in the Southeast United States and in Central America and with a value in the billions. Many of these projects have been FEMA Federal Aid Funded in Louisiana and have been performed for a variety of public and private clients. Max possesses demonstrated experience in NEPA Project Leadership, Government and Stakeholder Relations, Program Management, Project Management, Program and Project Development, and Construction Management and Inspection services related to major infrastructure and facilities projects which include roadway, highway and bridge infrastructure, drainage and utilities infrastructure, railways and transit ways, airport facilities, and various waterfront infrastructure and facilities.



MAX NASSAR

Vice President

Senior Managing Director, Local Business Leader



Years with the firm

6

Years total

44

Education

BA, Psychology Louisiana State University, 1976

Additional Training

Post-graduate studies in: Business, Finance, Labor Relations, and Industrial Operations, Tulane and Loyola Universities, New Orleans, LA

CAREER SUMMARY

Max is a Louisiana native who has spent 30 years in executive level positions in Fortune 500 Companies in both the Manufacturing/Industrial Sector and AE Consulting Services Sector. Over the past 25 years, he has overseen a multiplicity of infrastructure projects in the Southeast United States and in Central America and with a value in the billions. Many of these projects have been FEMA Federal Aid Funded in Louisiana and have been performed for a variety of public and private clients.

Max possesses demonstrated experience in NEPA Project Leadership, Government and Stakeholder Relations, Program Management, Project Management, Program and Project Development, and Construction Management and Inspection services related to major infrastructure and facilities projects which include roadway, highway and bridge infrastructure, drainage and utilities infrastructure, railways and transit ways, airport facilities, and various waterfront infrastructure and facilities.

RELEVANT PROJECT EXPERIENCE

- **Bonnabel Boulevard Roadway Improvements (Metairie Rd. to I-10), Jefferson, LA, Project Principal** The project, which is a Federal Aid program with joint FHWA and Jefferson Parish funding, will provide a 3" mill and overlay of the roadway surface, full depth concrete patching and curb replacement. The project required coordination Jefferson Parish and LADOTD engineering staff, the creation of preliminary drawings per LADOTD standards, establishment of a proposed profile to aide surface drainage and the creation proposed cross sections. The Project also included a Phase I Noise Mitigation Investigation at the Interstate 10 Overpass. The design work was performed with Inroads SS2. Design guidelines followed included Jefferson Parish, LADOTD and AASHTO. Client: Jefferson Parish. Dates: September 2020 – Present.
- **Pontchartrain Levee District; Cross Bayou Pump Station Inspection and Assessment.** Project Principal. The Cross Bayou Pump Station is owned by the Pontchartrain Levee District. The District desires to transfer the Station to ownership of St. Charles Parish. Prior to the transfer the station will undergo an in-depth inspection and assessment of the infrastructure. The Project Team will review O & M experience, develop a Rough Order Repair Estimate, and develop a Scope of Services and Plan for refurbishment of the Statement. A partial listing of the systems included are Diesel Pump Drives, Fuel Transfer and Storage Tanks, Power Take Off and Gear Reducer, Main Pumps, Auxiliary Pumps, Standby Generator, Trolley System, Automated Bar Screen and Telemetry and Controls
- **Louisiana Department of Transportation and Development. IDIQ Contract for Electrical and Mechanical Engineering Services** – Project Principal for this Task Order based engineering services contract which supports efforts on mechanical and electrical services related to roadways, pump stations and other mechanical and electrical needs. June 2017 to present
 - ✓ Task Order 1: State Project No. H.010439: Boyd Street & 21ST Street Pump Station Improvements
 - ✓ Task Order 2: State Project No. H.010439.5: Boyd Street & 21St St Pumping Station Improvements I-110
 - ✓ Task Order 3: State Project No. H.010565 Acadian St. Pumping Station Improvements
 - ✓ Task Order 4: State Project No. H.010565.5 Acadian Street Pumping Station



MAX NASSAR

Vice President

Senior Managing Director, Local Business Leader

- ✓ Task Order 5: State Project No. H.972249.1 Generator Site Investigation and Load Study for Airline Drive Pump Station and LADOTD Maintenance Facility and Construction Docs for Airline Drive Pump Station
- ✓ Task Order 6: State Project No. H.010253: Bluebonnet Blvd Pump Station Improvements LA 1248
- ✓ Task Order 7: State Project No. H.010251: Chippewa St Pumping Station Improvements US61/190

- **LADOTD Contract FOR 5 Movable Bridges, Vermillion, St. Martin, Assumption, and Cameron Parishes:** Project Principal. WSP USA was selected by the Louisiana Department of Transportation and Development to both inspect and to develop a rehabilitation or replacement plan for 5 movable bridges located in various Parishes across Louisiana. As part of the project scope, WSP will perform site inspections and an LRFR Load Rating and/or NBIS In-Depth inspection on the 5 bridges. The load rating shall be based on the current condition, capacity, and loading of the bridge structure, and shall be performed on all load carrying members including approach spans and movable spans. The development of preliminary and final plans as well as all construction related engineering services are also included in the assignment. As a part of the Construction Plan Set, WSP will prepare and submit a Transportation Management Plan. Many bridges in Louisiana have been designated “Historic” in the Section 106 document “Programmatic Agreement Regarding Management of Historic Bridges in Louisiana”.

- **St. Bernard Group A, New Orleans, Louisiana: Roadway reconstruction, roadway repairs, sidewalk repairs, and handicap ramp replacement for forty-five blocks within the City of New Orleans, Project Principal.** The project was FEMA Federal Aid funded and provided Engineering Services from initial project meetings with the New Orleans Department of Public works Sewerage and Water Board, design, preparation of construction documents to bidding. Client: City of New Orleans Department of Public Works. Dates: December 2016 – June 2018.

- **St. Bernard Group A, New Orleans, Louisiana Waterline replacement for forty-five blocks within the City of New Orleans, Project Principal.** The project was FEMA Federal Aid funded and provided Engineering Services from initial project meetings with the New Orleans Department of Public works Sewerage and Water Board, design, preparation of construction documents to bidding. Client: City of New Orleans Department of Public Works. Dates: December 2016 – June 2018.

- **Ormond Boulevard Pavement and Rehabilitation, St. Charles Parish, Louisiana, Project Officer.** The project, which was a Federal aid program with joint FHWA and St. Charles Parish funding consisted of concrete roadway patching and a 2-mile asphalt mill and overlay of Ormond Boulevard. Client: St. Charles Parish Department of Public Works and Wastewater. Dates: November 2016 - December 2017.

- **LADOTD Emergency Repairs New Orleans Signals, Project Principal.** In the aftermath of Hurricane Katrina the Louisiana DOTD immediately undertook an emergency effort to restore Traffic Control Systems on the Federally Funded System in multiple parishes within the Greater New Orleans region, for a total project cost of \$6 Million. Funded by FHWA Emergency Relief Grant Funds, the project consisted of condition assessment, preliminary and final design, financial management and budget controls, construction engineering and inspection, and program management.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Brian C. Hundt, PE Senior Civil Engineer
Project Assignment:
Civil Engineer
Name of Firm with which associated:
WSP USA Inc.
Years' experience with this Firm:
6
Education: Degree(s)/Year/Specialization:
BS, Civil Engineering, Louisiana State University, Baton Rouge / 2009
Active registration: Year first registered/discipline:
Professional Engineer: Louisiana (PE.0039459) / 2015 /Civil
Other experience and qualifications relevant to the proposed Project:
Brian brings 14 years of experience to this team as a civil engineer on numerous projects such as roadway design, waterline replacement, drainage design, construction administration, and inspection. Throughout his professional career, Brian has worked closely with Jefferson Parish, Louisiana Department of Transportation & Development (LADOTD), New Orleans Sewerage and Water Board, City of New Orleans Department of Public Works, and St. Charles Parish. Brian has a comprehensive knowledge of Autodesk Civil 3D and Excel.



BRIAN HUNDT, PE, PMP

Lead Civil Engineer



CAREER SUMMARY

Brian Hundt has over 10 years of experience as a Civil Engineer on numerous projects such as roadway design, waterline replacement, drainage design, construction administration, and inspection. Throughout his professional career, Mr. Hundt has worked closely with Jefferson Parish, the Louisiana Department of Transportation, New Orleans Sewerage and Water Board, City of New Orleans Department of Public Works, and St. Charles Parish.

EDUCATION

BS, Civil Engineering, Louisiana State University, Baton Rouge

2009

Years with the firm

6

Years total

14

Professional registrations

*Professional Engineer:
Louisiana, 2015 (PE0039459);
Project Management
Professional (2701475)*

*Traffic Control Supervisor, LA
Specific and Traffic Control
Technician, LA Specific*

PROFESSIONAL EXPERIENCE

Bonnabel Boulevard Roadway Improvements (Metairie Rd. to I-10), Jefferson, LA:

Project Engineer for the project, which is a Federal aid program with joint FHWA and Jefferson Parish funding, will provide a 3" mill and overlay of the roadway surface, full depth concrete patching and curb replacement. As project engineer, Brian coordinated with Jefferson Parish and LADOTD engineering staff, created preliminary drawings per LADOTD standards, established a proposed profile to aide surface drainage and create proposed cross sections. The design work was performed with Inroads SS2. Design guidelines followed included Jefferson Parish, LADOTD and AASHTO.

Jefferson Parish Submerged Roads Program, Council Districts 1, 2, & 5, Jefferson Parish, Louisiana:

As Project Engineer, Brian designed 12 Jefferson Parish projects for PCCP and asphaltic pavement repairs and overlay of Hurricane Katrina roadway damage under a FEMA funded program. The total program design spanned approximately 100 miles of Jefferson Parish roadway. He designed 375,000 square yards of Portland Cement Concrete Pavement for street replacement and 80,000 tons of asphaltic street replacement and repairs. He also managed Jefferson Parish agreements, managed design staff, and coordinated the bidding process with Jefferson Parish including prebid meetings, addenda, and review of bids. During the construction phase, Brian managed project inspection, testing reports, contractor payment request, and project closeout. All design was in accordance with Jefferson Parish and FEMA requirements.

Texas High Speed Rail, Dallas, Texas: The project is a design-build job for the design and construction of a high-speed rail from Houston to Dallas. As Project Engineer, he created plan sheets for proposed realignments of 40 existing rural and collector roadways that were affected by the proposed rail alignment. In addition, he created vertical and horizontal alignments for 10 proposed road over rail crossings. The design work was performed with InRoads SS2 and SS4. Local county, TXDOT and AASHTO design guidelines were followed for the design of realigned roadways.

Columbia City Residences at Bayou District, New Orleans, Louisiana: As Project Engineer, Brian created plan and profile sheets for roadways, drainage and water lines during the design phase. Brian also performed drainage calculations for sizing of the stormwater drainage system and provided routine inspections of civil work during the construction phase. The project consisted of surveying, civil engineering and transportation planning services for the housing portion of the Bayou District Foundation



BRIAN HUNDT, PE, PMP

Lead Civil Engineer

project, which includes 465 mixed income units. Brian was involved with phases 2A, 2B and 3 of the Columbia City project.

St. Bernard Group A, New Orleans, Louisiana: Project Engineer for Roadway reconstruction, roadway repairs, waterline replacement, sidewalk repairs, and handicap ramp replacement for forty-five blocks within the City of New Orleans. Brian attended design meetings with the New Orleans Department of Public Works, Sewerage and Water Board. He conducted field visits to determine the location of utilities (including water and sewer lines) roadway and sidewalk repairs, creating plan sheets, calculating quantities, creating cost estimates and compiling bid documents and specifications.

Ormond Boulevard Pavement and Rehabilitation, St. Charles Parish, Louisiana: Project Engineer for the construction administration phase of the project which consisted of concrete roadway patching and a 2-mile asphalt mill and overlay of Ormond Boulevard. Brian's duties included submittal approvals, site visits, approving daily reports, generating monthly estimates and creating change orders in LADOTD's Site Manager.

Island Road Restoration, Terrebonne Parish, Louisiana: Project Engineer for the construction administration phase of the project which consisted cold mill of existing asphalt pavement, placing 20,000 cubic yards of new crushed stone base course, and placing 6,600 tons of superpave asphalt surface and overlay on the existing and widened roadway. The design also included 17,000 cubic yards of stone riprap to stabilize and line the side slopes adjacent to waterways on both sides of the roadway. Duties included approving submittals, weekly inspections, recommending plan changes, tracking quantities, reviewing pay requests and creating change orders.

First St. Wharf Deck Replacement – Phase 2, New Orleans, Louisiana: Senior Project Manager for the construction administration project that repaired the First Wharf concrete deck. The scope of work for the construction included identifying damaged concrete sections below wharf deck on the Mississippi River side and above the wharf deck. Repair work included full depth and partial depth concrete deck repairs. Project duties also included attending meetings, managing inspectors, reviewing submittals, monitoring schedule and budget and approving contractor request for payment.

WB Veterans: Severn Ave – Clearview, Jefferson, LA: As Project Engineer, this project calls for the design of a 3.5" asphalt mill and overlay, full depth asphalt patching, curb replacement and striping replacement of Veterans Blvd. westbound lanes from Clearview Pkwy. to Severn Ave. This project involves coordination between Jefferson Parish Engineering Department and LADOTD. Brian's duties include creating plan sheets per LADOTD standards, identifying roadway repair locations, and calculating project quantities.

Southeast Louisiana Hospital Replacement of Potable Water Lines, St. Tammany Parish, Louisiana: Brian provided inspection and construction administration for the replacement of the water distribution system for a campus of 67 buildings (approximately 462,000 square feet). Duties included inspection of construction, writing inspection reports, attending monthly progress meetings, reviewing pay requests and creating change orders.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Yudu (Sonia) Wu, PE, LEED AP BD+C, PMP Senior Lead Consultant, Water Resources Engineer
Project Assignment:
Water Resources Engineer
Name of Firm with which associated:
WSP USA Inc.
Years' experience with this Firm:
7
Education: Degree(s)/Year/Specialization:
MS, Geography and Environmental Engineering, Johns Hopkins University / 2007 BS, Environmental Science, Sun Yat-Sen University / 2006
Active registration: Year first registered/discipline:
Professional Engineer: Maryland (46963) / Civil / 2015, California (78697) / 2011; Project Management Professional (1826714)
Other experience and qualifications relevant to the proposed Project:
Yudu Wu is a Lead Water Resource Engineer in with various experiences in water and wastewater engineering, stormwater management, drainage, stream restoration, floodplain, site development and asset management. She has comprehensive knowledge of the principles and practices of design and project management in water resource engineering She leads the team and manages design projects such as drainage design, BMP retrofit, stormwater management, water reuse, stream restoration, floodplain studies, water & wastewater utilities replacement and construction, and upgrading of treatment plants & pumping stations; or management projects intending to deliver organizational or program benefits and improvements. She works on both design bid build and design build projects.



YUDU (SONIA) WU, P.E., LEED AP BD+C, PMP

Senior Lead Consultant, Water Resources Engineer



Years with the firm

7

Years total

17

Professional qualifications

Professional Engineer: Maryland, 2015 (46963), California, 2011 (78697)

Areas of practice

Drainage, Storm Water Management, Stream Restoration, Floodplain, Water, Wastewater & Site Development

Languages

English

CAREER SUMMARY

Yudu (Sonia) Wu is a Professional Engineer and PMP passionate about One water. With the comprehensive knowledge and experience in water, wastewater and stormwater, Sonia has been taking a system thinking approach when working with clients on water projects to meet various goals: optimizing existing fresh water supplies with watershed scale thinking, reusing highly treated wastewater and capturing/retaining stormwater, improving utility system reliability, preparing for climate resiliency, and enhancing ecological system, environmental protection and sustainability.

Extensive experience in water and wastewater engineering, stormwater management, stream restoration, floodplain management, site development and asset management. She leads the team and manages design projects such as water & wastewater utilities replacement & construction and upgrading of treatment plants; stream restoration and stormwater management pond retrofit; drainage design and floodplain studies, or involving programs that intending to deliver organizational or program benefits and improvements, including water management program and sewer management program.

She's proficient in AutoCAD Civil 3D and AutoCAD Storm and Sanitary Analysis (SSA); Bentley OpenRoads (Power Inroads ss10) and OpenRoads Designer for alignment, profile, cross section, corridor & terrain design, subsurface utility design; proficient in other analysis software including ArcGIS & ArcSDE & SQL server; HEC-RAS 1D and 2D Modeling; HY-8, Hydraulic Toolbox; HydroCAD, HEC-HMS, Flow Master, Culvert Master, WaterCAD, InfoWork and PCSWMM etc.

EDUCATION

M.S., Geography and Environmental Engineering, Johns Hopkins University, Baltimore, MD 2007

B.S., Environmental Science, Sun Yat-Sen University 2006

ADDITIONAL TRAINING

Project Management Professional (1826714) 2015

PROFESSIONAL EXPERIENCE

Water & Wastewater

- **St. Charles Parish, Hwy 3127 Oxidation Pond, Hahnville, LA, Project Engineer**
St. Charles Parish contracted WSP for professional services to perform a feasibility study and analysis for an oxidation pond in Hahnville, LA. The Parish desires additional wastewater capacity to accommodate future residential growth and obtained a loan through LDEQ to fund this phase of the project. WSP is conducting a planning-level study to evaluate available data and establish a basis-of-design concept for a new 2 MGD lagoon-type wastewater treatment system (oxidation pond) to discharge into a natural wetland for wetland assimilation. The proposed facility includes: two-cell lagoon, aeration system, circulation pumps, pond dike, headworks that include mechanical trash rake/bar screening, emergency relief structure including emergency disinfection, open-channel UV disinfection, provision for standby power, and a utility building to house electrical service for misc. storage. The study included a basis of design, conceptual design plans, technical specifications, and Preliminary Construction Cost Estimate.



- **Basic Ordering Agreement, Contract No. 29101, Washington Suburban Sanitary Commission, Laurel, MD:** Technical Lead for Sewer hydraulic modeling for mini sewer shed studies at sanitary sewer overflow locations for Consent Decree Basic Ordering Agreement (BOA). Estimating dry weather and wet weather conditions flow based on flow monitoring data, establishing base sanitary flow, groundwater infiltration and RDII flow from rainfall. Reviewing model simulations and capacity analysis along with sanitary sewer overflow locations and making recommendations for system improvement.
- **Wolfspeed Silicon Carbide Facility, Project HIBs, Chatham Co., NC:** Wolfspeed HIBs will bring extraordinarily complex fabrication activities together in an efficient design. This 5M+ sf project will allow Wolfspeed to grow its semiconductor production capacity exponentially, further cementing Wolfspeed as the global leader in Silicon Carbide semiconductor wafers. Sonia led the design of rainwater harvesting to reuse for industrial water-cooling tower make-up, and equalization basin for temporary wastewater storage and mixing before discharging to public sewer system. Providing Technical guidance to water main layout, performing hydraulic modeling to optimize different construction and operation phases water demand need for process water, domestic water, and fire water, based on public water and wastewater capacity available at different phases. Coordinating for onsite 3M emergency storage tank, 0.5M fire storage tank design.
- **Wastewater Collection System (WWCS) – Capacity and Flow Analysis Project, Raleigh-Durham Airport Authority, Raleigh, NC:** Technical lead performing a comprehensive capacity and flow analysis for the entire wastewater collection system at Raleigh Durham Airport, including 9 miles of gravity sewer, 3 miles of force main and 6 sanitary sewer pump stations. Analyzing the capacity and flow of entire system based on field collection data, flow monitoring, wastewater hydraulic modeling using PCSWMM. Utilizing hydraulic modeling, condition assessment results to determine existing and future wastewater overflow risks, and to identify what needs to be fixed/repaired/maintained with in the WWCS and provide recommendations to the Authority Capital Improvement Plan.
- **Water Main Replacement, Water Main Design Work, City of Atlanta, Atlanta, GA:** Lead Water Resource Engineer providing technical support for watershed management program with City of Atlanta (COA) for projects involving various water main replacements and relocation design work at sites located across the entire City of Atlanta and beyond the city limits. Multiple projects including roadway design, improvement/widening, bridge replacement, interstate roadway design built from various clients (Georgia Department of Transportation GDOT, City of Sandy Springs, City of South Fulton). Perform investigations, conduct studies, engineering reviews and prepare construction contract documents including all calculations and other supporting documentation. Attending coordination meetings with GDOT, COA and other utility agencies to research existing and planned utilities, identify potential conflicts, and coordinate with design teams to eliminate or resolve potential conflicts.
- **Amazon Web Service Due Diligence Team, Loudoun County and Prince William County, VA:** Water Infrastructure Task lead on due diligence review of new AWS data center site development for IAD area and provide technical guidance and Quality Assurance for CMH and AU, PDX areas research. Led water infrastructure desktop evaluation for portable water, reclaimable water, non-contacting cooling water, industrial wastewater, rainwater harvesting and sanitary sewer services regarding capacity, reliability, permitting and regulatory requirement. Performed assessment on utility water/wastewater supply options and identify associated risk factors for future data center construction and operation. Estimated CAPEX and OPEX on water/wastewater connections. Prepared due diligent report and risk matrix to summary the assessment. Performed concept design for utility layout for water/sewer/storm drain/fiber optic/elec duct bank and coordinated with other disciplines on preparing conceptual plan package.
- **Basic Ordering Agreement, Contract No. PM0010A13 & (OY), Washington Suburban Sanitary Commission, Laurel, MD:** Project Manager managed multiple design projects of 3-mile water main and 13 meter vault replacement/relocation with tight project schedule, bringing various projects from different design stages to construction. Coordinated and held meeting with client's task managers regarding schedule, project progress, permitting and comments, providing monthly status report; Identified and streamlined permit and easement process on critical path of design scheduling, actively coordinating with permit agencies and client land survey section to assure application approvals; Oversaw sub-consultants on surveying, geo-tech and cost estimate tasks; Provided technical support to the design team to ensure deliverable meeting project milestones; Performed QAQC and communicating with design team and sub-consultants to enforce deliverable quality. Providing Bid and Construction Services.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Thomas Payne, PE Senior Vice President Wastewater Engineering
Project Assignment:
Water Resource Engineer
Name of Firm with which associated:
WSP USA Inc.
Years' experience with this Firm:
27
Education: Degree(s)/Year/Specialization:
MS, Civil and Environmental Engineering, Tufts University
Active registration: Year first registered/discipline:
Professional Engineer: Louisiana 47289 / 2022 / Civil, Connecticut 34523, Maryland 46144, Rhode Island 7540
Other experience and qualifications relevant to the proposed Project:
Tom Payne has more than 20 years of experience in civil and environmental engineering managing projects from planning, through design and construction. He serves as a company-wide subject matter expert and technical advisor on water and wastewater projects across the United States. Project responsibilities have included water and wastewater management, and facility planning; research and design for sanitary sewer, storm sewer, and water infrastructure improvements; enhanced site and utility assessments; environmental compliance auditing; asset management and condition assessment including project prioritization; preparation and review of construction documents; and project organization and management. Tom Payne serves as a company-wide subject matter expert and technical advisor on water, wastewater and stormwater projects and manages a team of engineers from multiple offices who are dedicated to infrastructure planning and design



THOMAS (TOM) PAYNE, PE

Senior Vice President Wastewater Engineering



CAREER SUMMARY

Tom Payne serves as a company-wide subject matter expert and technical advisor on water and wastewater projects across the United States and abroad for federal, state, and municipal clients, including NPS. He has experience in civil and environmental engineering, managing projects from planning, through design and construction. Responsibilities have included water and wastewater management and facility planning; research and design for sanitary sewer, storm sewer, and water infrastructure improvements; enhanced site and utility assessments; environmental compliance auditing; asset management and condition assessment; preparation and review of construction documents; and project organization and management. Mr. Payne's extensive experience with NPS parks includes the National Mall and Memorial Parks, Oxon Cove Park and Oxon Hill Farm, Boston National Historical Park, Valley Forge National Historical Park, Statue of Liberty, Lake Mead National Recreation Area, Acadia National Park, Cape Cod National Seashore, Boston Harbor Islands, Minute Man National Historical Park, Vanderbilt Mansion National Historic Site, Ozark National Scenic Riverways, Buffalo National River, and Weir Farm National Historic Site, among others.

Years with the firm

27

Years total

28

Professional registrations

Professional Engineer:
RI (7540); CT (34523); HI
(PE-13203); MD (46144);
NV (25932); SD (14036);
LA (0047289); NH
(17621)

EDUCATION

BS, Civil and Environmental Engineering, Tufts University
MS, Civil and Environmental Engineering, Tufts University

PROFESSIONAL EXPERIENCE

- St. Charles Parish, Hwy 3127 Oxidation Pond, Hahnville, LA, Project Engineer - St. Charles Parish contracted WSP for professional services to perform a feasibility study and analysis for an oxidation pond in Hahnville, LA. The Parish desires additional wastewater capacity to accommodate future residential growth and obtained a loan through LDEQ to fund this phase of the project. WSP is conducting a planning-level study to evaluate available data and establish a basis-of-design concept for a new 2 MGD lagoon-type wastewater treatment system (oxidation pond) to discharge into a natural wetland for wetland assimilation. The proposed facility includes: two-cell lagoon, aeration system, circulation pumps, pond dike, headworks that include mechanical trash rake/bar screening, emergency relief structure including emergency disinfection, open-channel UV disinfection, provision for standby power, and a utility building to house electrical service for misc. storage. The study included a basis of design, conceptual design plans, technical specifications, and Preliminary Construction Cost Estimate.
- General Engineering Services and Staff Augmentation Basic Ordering Agreement for Water and Wastewater Treatment, Pump Stations, Storage Tanks, Laytonsville Booster Pump Station and Elevated Water Tank, Laurel, MD: Civil Engineer Lead. WSP provided construction management, constructability review, and project controls. During pre-construction, the team identified significant issues that resulted in changes to the plans and specifications prior to construction. WSSC tapped WSP designers to make these modifications so that the project could be bid/rebid. The constructability reviews saved WSSC both time and money by avoiding change orders and time delays. Design services included the realignment of the water main and modifications to the erosion and sediment control plans to reflect new MDE guidelines. Construction services included providing RFI, shop drawings and submittal reviews and approvals, managing third-party testing agencies, identifying site change conditions, and evaluating change order requests and estimating, managing site safety, and addressing site and construction issues as they arose.
- General Engineering Services and Staff Augmentation Basic Ordering Agreement for Water and Wastewater Treatment, Pump Stations, Storage Tanks, Patuxent Water Filtration Plant Phase II Expansion and UV Disinfection Facilities: Civil Engineer Lead. The Phase II project was a \$65M expansion of the sixth process train and new residual solids



THOMAS (TOM) PAYNE, PE

Senior Vice President Wastewater Engineering

handling and orthophosphate building. The new construction increased the plant's capacity from 56 million gallons per day (MGD) of clean drinking water to 72 MGD and the emergency capacity to 110 MGD. The project was completed on schedule, with less than 0.5% in change orders and the project won the 2020 ACEC National Engineers Award & Honor Award. Project highlights comprised: replacement of the 6-inch reclaim sludge line with jack and bore method under US-98; Re-route of 12-inch sewer main with directional drilling; replacement of existing Secondary Unit Substation; addition of UV Disinfection; and a new 78-inch valve vault and 72-inch mixing chamber and new 60-inch distribution water pipeline through open-cut deep excavation with complex SOE.

- National Park Service 2020 IDIQ, BOST Charlestown Navy Yard Water Distribution System Replacement, Nationwide, Nationwide: Project manager/principal engineer for a project to replace the water distribution system at the Charlestown Navy Yard portion of the Boston National Historical Park. Results of a recently performed evaluation of the water distribution system found that most of the lines had deteriorated beyond the point of economic repair as some of the water mains were approaching 100 years and the site soils were corroding the pit cast iron pipes. Responsibilities included investigation and identification of service connections for fire protection and potable water services at the various structures within the park, oversight of subsurface utility survey along the alignments of the proposed water mains, and design of the new water distribution system, which included a secondary 6-inch fire service compound meter. The final project included the use of multiple alternative pipe installation techniques such as cast-in-place lining, slip lining, and horizontal directional drilling to minimize shutdown durations and protect sensitive assets. WSP provided a condition assessment of the water distribution system that had been plagued with leaks and breakages for many years, including providing subsurface utility engineering services, conducting a leak detection survey, and preparing base mapping for all utilities across the site.
- NAVFAC Pacific Naval Cantonment Utilities and Site Infrastructure Construction, Finegayan, Other, Guam: Principal hydraulic engineer for evaluation and redesign of the sanitary sewer system supporting development of a new Marine Corps facility in Finegayan, Guam. Responsible for evaluation and redesign of two sanitary pump stations, an 800 gallon per minute (gpm) triplex and a 145 gpm duplex, and associated force mains (10-inch and 6-inch respectively). Also responsible for modeling and redesign of the 6 miles of gravity sewer collection system ranging in diameter from 6 inches to 24 inches, as well as development of the Sanitary Sewer Maintenance Plan to support operations while development progresses to full buildout. All aspects of the design were compliant with UFC 3-240-01 design criteria, NAVFAC Public Works Utilities Criteria for electric, Sewer & Water, and 10 States Standards for Wastewater Facilities. WSP is providing full design-build services for the construction of a new 780-acre site development for the Finegayan cantonment area including roads, utilities, and grading. Project components consist of asphalt pavement, drainage ditches, inlets and crossings, curb, gutter, sidewalk, curb ramps, driveways, and a roundabout at the base main entrance.

Water & Sewer Design Basic Ordering Agreement (BOA), Montgomery and Prince George's Counties, MD: Civil Engineer. WSP was selected by the WSSC Pipeline Design Division (PDD) for a multi-year, Indefinite Quantities Contract for the evaluation, engineering and design of water distribution system and water meter improvements throughout Prince George's and Montgomery Counties in Maryland. The three-year contract was completed in 2018 and was extended by WSSC for an additional three years per an option term in the contract. WSP completed 17 separate projects (Task Orders) including approximately 23 miles of water main replacement, 24 large meter vaults, and the replacement and relocation of distribution mains ranging in size from 4 inches to 16 inches in diameter.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Michael Wooten, PE Water/Wastewater Market Director - Georgia
Project Assignment:
Water Resources Engineer
Name of Firm with which associated:
WSP USA Inc.
Years' experience with this Firm:
20
Education: Degree(s)/Year/Specialization:
B.S.C.E.T, Southern Polytechnic State University, 1995
Active registration: Year first registered/discipline:
Professional Engineer: Georgia 26753 (2001) / Civil Georgia Soil and Water Conservation Commission – Level II Certified Design Professional (#43490), 2010
Other experience and qualifications relevant to the proposed Project:
Michael Wooten is an experienced engineer and project manager with a diverse multi-disciplinary background concentrated in the water/wastewater/stormwater infrastructure sector. He currently serves as the Water/Wastewater Market leader for Georgia. Michael combines experience in both the public and private sector in the delivery of projects of up to \$60M in construction value.



MICHAEL K. WOOTEN, PE

*Market Director – Georgia
Water/Wastewater*



Years with the firm

20

Years total

28

Professional qualifications

Professional Engineer - GA
(#26753), 2001

Professional Engineer - AL
(#27585), 2006

GWSCC - Level II Certified
Design Professional
(#43490), 2010

CAREER SUMMARY

Michael Wooten is an experienced engineer and project manager with a diverse multi-disciplinary background concentrated in the water/wastewater/stormwater infrastructure sector. He currently serves as the Water/Wastewater Market leader for Georgia. Michael combines experience in both the public and private sector in the delivery of projects of up to \$60M in construction value.

His background also includes the management and oversight of several on-demand engineering services contracts including with the City of Atlanta, DeKalb County and Gwinnett County. In this role Michael was responsible for the delivery of task orders within each agreement from conception to closeout. Michael has also served in the role of owner’s representative on a large alternative deliver project.

EDUCATION

B.S.C.E.T, Southern Polytechnic State University 1995

PROFESSIONAL MEMBERSHIPS

Water Environment Federation 2002

Georgia Association of Water Professionals 2002

American Society of Civil Engineers 1995

PROFESSIONAL EXPERIENCE

- Scott Boulevard Phase II Water Main Improvements, Decatur, GA, 2021 – Project manager and EOR for design of 9,500LF of 30-inch water transmission main and new 12-in distribution main along heavily congested corridor.
- Priority Area Sewer Assessment and Rehabilitation Program (PASARP) Package 8, Tucker/Doraville, GA 2022 – Project manager responsible for the design of 16,000LF of sanitary sewer ranging in size from 16-in to 24-in \ under DeKalb County Consent Decree Program
- Briarcliff Phase I – IV Water Main Improvements, Atlanta, GA 2021 – Project Manager for the design of 25,000LF of transmission and distribution water mains from 12-in to 24-in pipe along busy narrow corridor. Project included utility relocation plans and coordination for two separate GDOT projects within the project limits.
- Centerville Highway Water Main Improvements, Snellville, GA – Project manager and EOR for design of 5,500LF of new 12-in water main along State Route to improve fire service in south end of the county.
- City of Atlanta A/E Services – Project Manager and Client Lead for Department of Watershed Management task order services currently totaling approximately \$5M in contract value. Coordinated and led a team of multiple consultants as well as in-house staff. Individual task orders include the coordination and relocation design of City water and sewer assets for GDOT, Department of Public Works and Renew Atlanta projects.
- Government Cut/Norris Cut Utility Relocation Projects, Miami, FL – Deputy Project Manager for team acting as owner’s representative overseeing the design and construction of 10,000lf of large diameter force main and 2,500lf of water main. The



MICHAEL K. WOOTEN, PE

Market Director - Georgia

Design-Build project included several different construction methods including conventional tunneling, microtunneling and horizontal directional drilling.

- Stockade Basin Sewer Separation, Atlanta, GA - Project Manager for the design of approximately 60,000 linear feet of new sanitary and storm sewers for the separation of combined sewers in the Stockade basin for the City of Atlanta. The project involved inspection of existing sewer, preparing preliminary and final construction plans for parallel sanitary sewer lines. The services provided include permitting, geotechnical investigations, real estate acquisition, surveys and public involvement as required by the City.
- No Business Creek Storage and Conveyance Tunnel, Gwinnett County, GA - Deputy Project Manager responsible for civil design including tunnel alignment and production of contract documents for 3-mile-long tunnel. The project includes an equalization pumping station (by others) to pump wastewater into the No Business Creek regional pumping station to be constructed at the No Business Creek WRF. First deep tunnel storage and conveyance system for Gwinnett County Department of Water Resources.
- Noonday Creek Wastewater Treatment Plant Improvements, Cobb County, GA – Project Engineer responsible for site design of wastewater treatment facility expansion. The project included site grading to accommodate new and relocated structures as well as preparation of yard piping plans and site drainage design
- Church Street Extension, Kennesaw, GA - served as project engineer for design of widening and realignment of 0.9-mile section of roadway and side streets and re-design of storm drainage systems.

PUBLICATIONS AND PRESENTATIONS

Presentations

- Wooten, Michael. “The No Business Creek Tunnel – A Ground Breaking Approach to Wastewater Collection.” North American Society for Trenchless Technology, Toronto, Ontario, April, 2009

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Jessica Butterfield, PE Civil Engineer
Project Assignment:
Water Resources Engineer
Name of Firm with which associated:
WSP USA Inc.
Years' experience with this Firm:
2
Education: Degree(s)/Year/Specialization:
BS, Environmental Engineering, North Carolina State University / 2019
Active registration: Year first registered/discipline:
Professional Engineer: Louisiana (0048123) / 2023 / Civil
Other experience and qualifications relevant to the proposed Project:
Jessica Butterfield is a civil engineer with experience in developing comprehensive civil sites from concept through completion for commercial and residential projects. Her project experience includes Hydrologic and Hydraulic modeling, site grading and drainage design, road design, sanitary sewer gravity conveyance system and water distribution system layout and design. She develops construction documents (plans and specifications), quantifies projects and prepares engineering cost estimates, and performs calculations and creates design reports for hydraulic modeling. In addition, Jessica has experience utilizing the following software: AutoCAD/Civil 3D, MicroStation/OpenRoads, StormCAD/Hydraflow Hydrographs, Vehicle Tracking, Geographical Information System (GIS).



JESSICA BUTTERFIELD, PE

Civil Engineer



Years with the firm

2

Years total

5

Education

North Carolina State University, BS in Environmental Engineering, 2019

Professional Registrations

Professional Engineer:

Louisiana, 2023
(PE.OO48123)

CAREER SUMMARY

Jessica Butterfield is a civil engineer with experience in developing comprehensive civil sites from concept through completion for commercial and residential projects. Her project experience includes Hydrologic and Hydraulic modeling, site grading and drainage design, road design, sanitary sewer gravity conveyance system and water distribution system layout and design. She develops construction documents (plans and specifications), quantifies projects and prepares engineering cost estimates, and performs calculations and creates design reports for hydraulic modeling. In addition, Jessica has experience utilizing the following software: AutoCAD/Civil 3D, MicroStation/OpenRoads, StormCAD/Hydraflow Hydrographs, Vehicle Tracking, Geographical Information System (GIS).

PROJECT EXPERIENCE

- 2023-035D-WRB Kenner Waterline Project (21st Street to 14th Street), Jefferson Parish, LA. Project Engineer. WSP has been selected to provide design services for installation of a new 42" transmission line along Airport Access Rd from 21st Street to 14th Street. Anticipated installation methods will include CompressionFit, open cut and horizontal direction drilling (HDD). The segment of waterline includes an aerial crossing over West Metairie Canal, which will be relocated under the canal via HDD installation method. Project is currently in contract negotiations with Jefferson Parish and work is anticipated to start Q3 of 2024.
- Program Management, Port of South Louisiana, Louisiana, Engineer Intern. The Program Management assignment includes but is not limited to oversight of the Master and Strategic Planning efforts including implementation, Grants Application and Management, Procurement Support including Assessment of Consultant Capabilities, Alternative Delivery and Public Private Partnerships, Design Management and Construction Administration through the life of the contract. The Program also includes the creation of a Project Controls system for the Port. As engineer intern, Jessica attends project meetings and performs design and construction administration oversight. Client: Port of South Louisiana
- Livingston Parish Government Early Warning Systems and Rain Gauges Project, Livingston Parish, Louisiana. Engineer Intern. WSP is a subconsultant providing engineering services for this FEMA & GOHSEP HMGP (DR-4277) funded project. This project includes providing schematic designs for the purpose of the installation of 24 water gauges and 46 weather stations to evaluate suitability, document safety and environmental concerns and determine site preparation and equipment required for installation. The scope of work includes project administration and management, data collection and site investigations, schematic design and design development, preliminary and final cost estimating, FEMA Phase II BCA, bidding and contracting administration, construction administration and construction closeout. As engineer intern, Jessica helps with design document development and assisting with plan updates. Client: Livingston Parish Government.
- Louisiana Watershed Initiative Iberville Parish White Castle Drainage Improvements, White Castle, LA, Engineer Intern. WSP is a subconsultant providing technical oversight for the LWI (Louisiana Watershed Initiative)- CDBG Grant funded White Castle Drainage Improvements Project. This project consists of the removal of accumulated sediment for approximately 4.5 miles of the channel bottom and immediate adjoining side slope to match historical grade lines. The project includes the removal of siltation above historical channel bottom grade lines and settled eroded materials on the bottom of the channel and the disposal of all excavated soils. As engineer intern, Jessica assisted with reviewing



JESSICA BUTTERFIELD, PE

Civil Engineer

previous plans for design requirements, created a proposed channel and berm surface, and helped develop design documents. Client: Iberville Parish Government.

- Louisiana Watershed Initiative Town of Maringouin Drainage Improvements, Maringouin, LA, Engineer Intern. WSP is a subconsultant providing technical oversight for the LWI (Louisiana Watershed Initiative)- CDBG Grant funded Town of Maringouin Drainage Improvements Project. The project includes improvements and upsizing of the existing drainage systems, including open channels, drainage structures and culverts. Existing pipes and structures that are inadequate for proper stormwater conveyance will be removed and replaced with those that are adequately sized to handle storm surge. Existing ditches and other open conveyance channels will be resized, sediment accumulation removed, regraded and, in some cases hardened, to convey required storm event runoff within the town limits. Client: Town of Maringouin.
- Wolfspeed Silicon Carbide Materials Facility, Wolfspeed, Chatham County, North Carolina, Professional Engineer. WSP is the prime performing the design for a 445-acre silicon carbide materials facility to expand existing Wolfspeed materials capacity by 10x. Jessica laid out the stormwater system for five proposed ponds on-site, created StormCAD models for each system to analyze pre and post development flow, formatted stormwater data for permitting, as well as assisting with permitting packages and documents, creating construction documents, and erosion control plans. Client: Wolfspeed
- Pounds Lake Sediment Management, Gwinnett County Department of Water Resources, Georgia, Professional Engineer. The primary intent of this project is to perform necessary maintenance to the WIP project at Pounds Lake. This will be accomplished through dredging of accumulated sediment and construction of sediment capture areas within the lake footprint to allow cost-efficient future maintenance to provide prolonged water quality benefits. Jessica created three pond sedimentation removal options with grading and a cut/fill analysis for the client to review, as well as putting together a set of construction plans and specifications for the chosen design. Client: Gwinnett County Department of Water Resources
- Charlotte Douglass International Airport CLT Center Stormwater Maintenance Project, Mecklenburg County, North Carolina. Engineer Intern. Engineering Intern assisting with design of airport maintenance parking lot flooding. Assisted with proposed stormwater network design, calculations, and modeling. Provided technical data for report consisting of three potential stormwater design options. The project includes an analysis of various possible solutions as well as a set of construction plans and specifications for the best solution. Client: Charlotte Douglass International Airport
- West New Bern Multiuse Residential Development, New Bern, North Carolina. Engineer Intern. Engineer intern assisting the project manager with weekly client meetings, land use plans, preparing conceptual site plans and cost estimates. The 500 acre project included both residential and commercial aspects and required local and state permitting. Jessica assisted in a Green Infrastructure study for the site to reduce the stormwater pond by 5 acres to increase developable land. Tasks included preparing construction documents, designing and modeling closed stormwater systems, water and sewer layout, utility coordination, and site design.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
David Loduca, Ph.D., PE, LEED AP Professional Associate, Certified Project Manager Supervising Electrical Engineer
Project Assignment:
Electrical Engineer
Name of Firm with which associated:
WSP USA Inc.
Years' experience with this Firm:
25
Education: Degree(s)/Year/Specialization:
Ph.D., Engineering Management, Missouri University for Science and Technology / 2011 M.S., Engineering Management, University of Missouri – Rolla / 2005 B.S., Electrical Engineering, Virginia Military Institute / 1981 A.A.S., summa cum laude, Management, Virginia Western Community College / 1985
Active registration: Year first registered/discipline:
Professional Engineer: Louisiana, 1998 (28117) / Electrical, Virginia, 1990 (20603); California, 1998 (E15878); Texas, 2007 (99060), U.S. Green Building Council LEED BD+C Accredited Professional Record: National Council of Examiners for Engineering and Surveying, 1990; (9600) Project Management Professional (1826714)
Other experience and qualifications relevant to the proposed Project:
David (Dave) is a supervising electrical engineer with WSP. He is experienced on projects including industrial facilities, light rail and subway lighting and electrical systems, highway lighting, renewable energy, airport land side facilities, telecommunications facilities, government facilities, campus lighting, educational facilities, transportation maintenance facilities, commercial offices, restaurants, retail stores, and gas stations. Dave's duties include power distribution and lighting design, grounding, fire detection and alarm, public address, intrusion detection, CCTV, code compliance, and utility coordination. He prepares specifications, construction cost estimates, and calculations such as lighting level, voltage drop, and short-circuit/coordination. He supports construction management and administration by answering RFIs and conducting site surveys, inspections, submittal reviews. Dave's supervisory duties include plan-checking, design reviews, scheduling and staging personnel, and ordinary supervisory tasks for an electrical design group.



DAVID LODUCA, PHD, PE, LEED AP

Principal, Supervising Engineer



Years with the firm

25

Years total

43

Education

PhD, Missouri University of Science & Technology, 2011

MS, University of Missouri-Rolla, 2005

AAS, Virginia Western Community College, 1995

BS, Virginia Military Institute, 1981

Professional Registrations

Professional Engineer:
LA (28117), 1998

LEED AP, 2003

CAREER SUMMARY

Dave is a supervising engineer registered in Louisiana with experience in electrical systems design. He will review adequacy of electrical service and feeder distribution, lighting, and provisions for backup power. Dave currently serves as project manager for an on-call contract with the LADOTD under which WSP has completed the inspections and upgrades of four Department-owned pump stations and is currently in the design phase of upgrading three others. In addition to his leadership on multiple pump station projects, Dave has been an electrical and design lead for a broad range of projects, such as industrial facilities, subway and light rail, telecom facilities, and maintenance fueling facilities.

- New Sarpy Pump Station Upgrades, New Sarpy, Louisiana: Project Engineer. WSP providing mechanical, electrical and SCADA/telemetry services for the New Sarpy Pump Station Upgrades. St. Charles Parish desires to increase the pumping capacity of the facility from 150 to 250 cfs. Full upgrades will include hydraulic, structural, site civil, mechanical, electrical and SCADA/telemetry. The first phase of the project includes an initial site investigation and assessment of the existing station to provide the Parish with recommendations for station upgrades. In the second phase, WSP will prepare preliminary and final plans and provide support through bidding and contracting and construction administration phases. Client: St. Charles Parish.
- H.010439.5 Boyd Avenue and 21st Street Pumping Station Improvements, Baton Rouge, Louisiana: Project Manager for rehabilitation of existing storm pump station facilities serving I-110 consisting of dry pit and vertical turbine pumps. Included five main and low-flow dry pit pumps and the Boyd Avenue station, five main and low-flow vertical turbine pumps at the New 21st Street station and two main dry-pit pumps at the Old 21st Street station. Facility upgrade involved pump replacement; upgrades of electrical service, distribution, motor controls, lighting, gas detection equipment and building ventilation; and new doors, pit-access ladders, and a chain hoist. Project also included repair of building finishes, station walkways, stairs and railings; and new overhead gantry cranes for pump equipment. Client: LADOTD.
- H.972249.1 Airline Drive Pumping Station Improvement, Metairie, Louisiana: Project Manager providing engineering design services that included a generator study for the Airline Drive Underpass Drainage System Pump House at the Causeway Interchange on Airline Drive in Metairie, LA and the New Orleans East Maintenance Unit Facility. WSP provided electrical design services that included replacement and upgrade of the electrical equipment and worked in close coordination with the Department of Environmental Services from the City of Baton Rouge, and Entergy, the local electrical utility, in order to satisfy the Department's specific needs and requirements. WSP managed development of the contract plans, specifications, and construction cost estimates, and assisted in contract letting for the projects. Tasks included reviewing shop drawing submittals and responding to requests for information. Client: LADOTD.
- H.010565.5 Acadian Thruway Pumping Station Improvements, Baton Rouge, Louisiana: Project Manager. This project was for the rehabilitation of an existing storm pump station facility serving Acadian Thruway consisting of two dry pit main pumps. The facility upgrade involved pump replacement; upgrades of electrical service, distribution, motor controls, lighting, gas detection equipment,



DAVID LODUCA, PHD, PE, LEED AP

Principal, Supervising Engineer

pit and building ventilation; and new doors, and pit-access ladders. The project also included repair of building finishes and station walkways. Client: LADOTD.

- H.010253 Bluebonnet Pump Stations, Baton Rouge, Louisiana: Project Manager for rehabilitation of existing storm pump station facility serving Bluebonnet Boulevard near Mall of Louisiana consisting of three existing dry pit main pumps. Facility upgrade involved pump controls replacement; upgrades of electrical service, distribution, motor controls, lighting, gas detection equipment, pit and building ventilation; and new doors, and pit-access ladders. Project also included upgrade of the existing standby generator installation, repair of building finishes, soffits, roof, station walkways, stairs and railings; and also including new doors, pit-access ladders, chain hoist. Client: LADOTD.
- H.010251 Chippewa Storm Pump Stations, Baton Rouge, Louisiana: Project Manager for a hydrology evaluation to assisting in scoping the upgrade of the existing dry pit pump station. WSP performed a simplified peak flow analysis using the Rational Method Formula. The study defined the basin boundaries, pervious and impervious area and time and concentration using LIDAR information from GIS and existing drainage as-built plans. The study established the intensity of the 50, 25, and 10 year/24 hour storm. In addition, the study performed an evaluation of the existing Chippewa Station and provided a preliminary pump selection and existing wet well volumetric analysis to support a planning level opinion regarding the practical expansion limits of station pumping equipment. Client: LADOTD.
- Pontchartrain Levee District, Cross Bayou Pump Station Inspection and Assessment. Project Engineer/Project Manager. The Cross Bayou Pump Station is owned by the Pontchartrain Levee District. The District desires to transfer the Station to ownership of St. Charles Parish. Prior to the transfer the station will undergo an in-depth inspection and assessment of the infrastructure. The Project Team will review O & M experience, develop a Rough Order Repair Estimate, and develop a Scope of Services and Plan for refurbishment of the Statement. A partial listing of the systems included are Diesel Pump Drives, Fuel Transfer and Storage Tanks, Power Take Off and Gear Reducer, Main Pumps, Auxiliary Pumps, Standby Generator, Trolley System, Automated Bar Screen and Telemetry and Controls. Client: Pontchartrain Levee District.
- Fire Pump Replacement Project, Lima, Ohio. Project Engineer. WSP USA was retained by a Confidential Client in Ohio to develop a hydraulic model of the fire water distribution network and to evaluate the system for sizing new diesel pumps. The Confidential Client operates a multi-building industrial campus that is served by a dedicated water distribution network to meet fire protection demands that use two 30-year old diesel pumps that discharge into the same fire water distribution network and located in adjacent buildings. In addition, WSP provided design services involving phased demolition of one of the pump building and phased construction of new addition to the other pump building to accommodate two new diesel pumps. WSP provided construction documents for hydraulic modifications for the new pump installation as well as architectural, structural, mechanical, electrical and fire protection services for the upgraded pumping facility. Client: Confidential

TEC Professional Services Questionnaire

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

PROJECT NO. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Midtown Tunnel 36-inch Water Main Relocation (HDD), Norfolk/ Portsmouth, VA Virginia Department of Transportation David Martin 757-932-4479	WSP provided final design and construction administration services for the recently completed horizontal directional drill (HDD) for relocating the City of Norfolk's 30-inch raw water main located directly in the path of the proposed new Midtown Tunnel. WSP coordinated and worked closely with the City of Norfolk to meet their needs, including upsizing to a 36-inch betterment. The HDD section was completed first to facilitate the ordering of pipe materials which had long lead times and included coordination with specialty design services. Final design for the remaining section followed a few months later. Project specifics included: design of 4,400 feet of 36-inch welded steel pipe installed by HDD under the Elizabeth River with Fusion Bonded; epoxy coating inside and out, and an additional abrasion resistant overlay on the outside; design of 1,500 feet of 36-inch ductile iron pipe connecting the HDD on the Portsmouth side to the existing WM; design of 1,150 feet of 36-inch ductile iron pipe connecting the HDD on the Norfolk side to the existing WM; two 300 foot sections of 54-inch steel casing installed by jack & bore; 80 feet of 54-inch steel casing installed by jack & bore; corrosion systems consisting of Impressed Current Cathodic Protection System for the welded steel pipe and an anode based cathodic protection system for the DIP; traffic control.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
03/2013	\$ 10,000,000	\$990,000

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Utility Engineering Services for FDC Grove Road-Ernie Caldwell Boulevard Polk County Utilities Mark Addison, PE 863-298-4214	The project consisted of design and construction services for the installation of approximately 6,700 LF of eight-inch water main; 5,200 LF of eight-inch wastewater force main; 1,000 LF of 6-inch wastewater force main; and 6,700 LF of eight-inch reclaimed water main. This project also included preparing design drawings, technical specifications, and Engineer's opinions of probable construction cost for the proposed utilities (water main, wastewater force mains and reclaimed water main). The design drawings also were used for permitting purposes which consisted of the preparation and submittal of the forms and documents required for obtaining construction permits/approvals from the Florida Department of Transportation, Polk County Health Department, and Florida Department of Environmental Protection. The project also consisted of providing bidding and construction assistance for the designed utilities and post-construction phase services and construction- related change orders were avoided altogether on the project.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2/2012	\$ 1,334,000	\$ 150,000

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
Bodie Island Water Utility Improvements - Phase 2, Cape Hatteras, NC National Park Services Tim Gabriel (919)436-2148	WSP served as the lead designer on this design-build project which consisted of the complete design of a water main system to replace of approximately 26,300 linear feet of deteriorating asbestos cement pipe and the installation of approximately 5,300 linear feet of six-inch water main and appurtenances in Nags Head and Bodie Island. The selected method of replacement was to directional drill the water line because of the high water table and environmentally sensitive corridor. The pipe material selected was USSI Fusible C-900 PVC. The project included meters, valves, road crossing, jacked steel casing, roadway widening and turning lanes.	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
3/2012	\$1,400,000	\$ 147,000

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Dominion Boulevard Utilities Relocation City of Chesapeake Ed West, Project Manager (757)382-6362	WSP designed the construction documents for 4,000 linear feet of 16-inch ductile iron water transmission main and 5,300 linear feet of 24-inch ductile iron water transmission main as a part of the Dominion Boulevard project. Most critical to note is the design and sequencing of construction of the relocation of the 24-inch water transmission main in Dominion Boulevard serving the area south of Cedar Road. Extended shutdown of this line was not possible, thus required a relocation concept to allow for final tie-ins to occur in a single, night-time shutdown procedure. Although this is a transmission main, there are numerous individual service connections and distribution line connections. Water service to all connections was required to be maintained at all times which necessitated activation of the new main, then transferring all connection to the new main prior to the removal of the existing main.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
1/2015	\$1,000,000	\$ 127,000

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Prosperity Road Water and Sewer Extensions Virginia Beach, VA City of Virginia Beach Josh Holt (757)385-4140	WSP was tasked with determining the water and sewer demands of the community, developing multiple design alternatives (including costs) and making a recommendation of the preferred alternative to the City in a preliminary engineering report (PER). The preferred alternative was advanced to the 30% design level. Immediately following the City's review, we were directed to expedite the final design so that the City might procure, contract and construct the project in advance of the grand opening of a highly visible recreational complex. WSP completed the final design within 30 days.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
5/2015	\$ 3,200,000	\$ 367,000

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Norfolk Department of Utilities Annual Services Contract Norfolk, VA City of Norfolk Selo Qejvani (757)664-6773	Under an Annual Service Contract for City of Norfolk Department of Utilities, WSP was tasked with the investigation, design, and development of the Miller Store Road 20-Inch Water Main construction documents. This project includes a new 3,000 foot section of 20-inch water main along Miller Store Road. Early collaboration with the Cities of Norfolk and our Virginia Beach staff was able to preemptively address potential municipal permitting issues on this multi-jurisdictional project. To avoid delays to the construction schedule we submitted the Norfolk Southern Pipeline Occupancy Permit application in advance of the final design.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
12/2016	\$ 1,300,000	\$129,000

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Holly Hill Water Production, Reclaimed Storage, and Repump Facility Polk County Utilities Mark Addison, PE 863-298-4214	WSP provided design, permitting, and construction support services for a reclaimed water storage and re-pump facility and a potable water production facility (WPF) co-located on one site. The potable WPF includes a 1.5 million gallon ground storage tank (GST) with cascading tray aerators, two 5000 gpm variable speed high service pumps and two 1,200 gpm pumps, chemical feed facilities, motor control center building, security fencing, lighting and access control with power gates, yard piping, electrical/controls, instrumentation/SCADA integration into Polk County's SCADA system, emergency power, and stormwater management. A key element of the design and construction included segregating the potable and non-potable aspects of this joint facility for sanitary purposes.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
12/2013	\$ 10,400,000	\$ 937,262

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Plant 134 Booster Station Upgrades and Getaway Capacity Upgrades Highland, CA East Valley Water District (EVWD) Thomas Holliman, PE 909-806-4096	WSP developed the design and prepared bid documents for EVWD's Plant 134 Booster Station Upgrades. The surface water treatment plant was constructed in 1996 and was recently upgraded from 4 mgd to 8 mgd. The recent upgrades have left EVWD incapable of moving the full amount of treated water to higher pressure zones due to the limited capacity of the booster station and undersized pipeline in the distribution system. The project included three parts: 1) determine the optimal pumping requirements to be able to move 8 MGD into the distribution system; 2) design the necessary pump station modifications to implement the recommended solution in part 1; 3) design approximately 2,700 linear feet of 16-inch water main.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
12/2016	\$5,000,000	\$451,364

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
48-inch Water Main at Downtown Miami "The Loop" Miami, FL	Miami's Downtown Loop Central Business Area is predominantly serviced by undersized water mains which have long exceeded their design life. For the two-phase, 48-inch water main project, WSP as part of a design-build team, is providing design services for the interconnection of the north and south service water systems. Phase One consists of a proposed 4,000-linear foot (lf), 48-inch water transmission main located along NW 1st Place from NW 17th Street to NW 12th Street and a 30-inch water transmission main located west of All Aboard Florida passenger station to NW 1st Court. Phase Two consists of a proposed 1,200 lf, 36-inch water transmission main. The design approach focused on providing the required facilities in the most cost effective means possible, while safely minimizing the impacts to the area and its stakeholders. The design included a microtunnel approximately 180 feet under the FEC railroad. Launch and retrieval shafts have been positioned so that each is accessible for ease of operation and safety of the workers, motorists and pedestrians and to route traffic safely around the work area. The locations of the shafts were defined to allow hauling operations to be conducted with minimum impact. This project for the downtown loop closure entailed designing around a large mix of existing utilities within a small corridor.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
3/2019	\$7,650,000	\$ 650,000

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Water Conserv II Transmission Main Realignment at Florida Turnpike and I-4 Interchange Orange County Utilities Mark Ikeler, PE 407-254-9705	Water Conserv II's reclaimed water meets the Florida Department of Environmental Protection's public access reuse standards and is permitted for use on all public access sites. To facilitate the widening of the I-4 interchange, a 42-inch diameter reclaimed water pipeline needed to be realigned. The pipeline is part of the Water Conserv II Reuse Facilities that provide reclaimed water for irrigation in Orange and Lake Counties, for which Parsons Brinckerhoff has been the engineering consultant for over 23 years. For this project, the firm provided engineering services including hydraulic evaluation, geotechnical investigations, conceptual and final design, cost estimates, bidding assistance, construction inspection, as well as engineer-procured-contractor construction to complete the realignment of the 42-inch transmission main. The project is a 1,400 linear-foot long realignment of 42-inch diameter pressurized transmission main located within Turnpike right-of-way including 700 linear feet inside casing extending under three separate roadway ramps of the Florida Turnpike interchange with I-4. A 60-inch diameter steel casing was installed by microtunneling to meet the agency's requirement of casing beneath roadways, and to avoid disturbing critical utilities that would be impacted by a typical open cut-and-cover technique.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
11/2013	\$ 1,800,000	\$ 367,668

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		
2.		
3.		
4.		

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

Please see additional information.

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

Signature:  Print Name: Max Nassar
 Title: Senior Vice President Managing Director Date: 6/19/24

Introduction

WSP USA offers over a century of experience in the planning, design, and construction management of municipal infrastructure projects, including water, wastewater, drainage, and roadways nationwide. WSP is an industry leader in developing infrastructure solutions for the way we will live in the 21st century.

WSP USA Inc. is a leading engineering professional services consulting firm. Nationally, our staff of 10,000+ provide engineering and multidisciplinary services in a vast array of industry sectors, with a focus on technical excellence and client service. The firm has a 132-year history, with roots in companies founded in the United States, the United Kingdom and Canada. WSP is committed to performing our services in a socially, ethically, and environmentally responsible manner. In the United States, the firm's roots date back to 1885.

We offer expertise in every phase of project delivery, from concept to completion. Our services include strategic consulting, program management, planning, engineering design, construction management, and operations & maintenance.

Municipalities rely on us to execute projects under every form of project delivery, including design-build and public-private partnership. We employ the latest technologies and methodologies to develop infrastructure that addresses anticipated demographic, social, and economic changes, and we plan and design infrastructure systems to be resilient to the threats posed by climate change.

Our engineers and planners view municipal infrastructure planning and design to improve the communities in which we live and work, and wherever possible we apply the latest concepts in sustainable development to improve social, economic and environmental conditions.

We help our clients find the right solutions to their challenges through innovative planning and design, deep knowledge of the federal and local regulatory environments, and strong management of project delivery.

In addition to a full range of specialized services, we provide broad oversight and direction for complex mega projects, working on integrated teams with our

clients to deliver some of the world's largest and most well-known infrastructure projects.

To every project we bring a total commitment to achieving client goals, with strict attention to schedule and budget, drawing on the multidisciplinary skills of professionals across the U.S.

WSP was selected as a Prime Contractor for the 2023-035D-WRB Kenner Waterline Project (21st Street to 14th Street) (Resolution #143101). This project consists of installing a new 42" transmission line along Airport Access Rd from 21st Street to 14th Street. Anticipated installation methods will include CompressionFit, open cut and horizontal direction drilling (HDD). The segment of waterline includes an aerial crossing over West Metairie Canal, which will be relocated under the canal via HDD installation method. Project is currently in contract negotiations with Jefferson Parish and work is anticipated to start Q3 of 2024.

Minimum Qualifications

1. One principal who is a professional engineer who shall be registered as such in Louisiana.

Senior Vice President, Ian Chaney, PE is WSP's National Director for Geotechnical and Tunneling. He maintains his Louisiana PE (0042288) and will serve as the Principal for any work WSP is awarded by Jefferson Parish. He brings 21 years of experience to this team.

2. Professional in charge of the project who is a professional engineer who shall be registered as such in Louisiana with a minimum of five (5) years experience in the disciplines involved.

Rebecca Howell, PE will serve in the role of Professional in Charge and Project Manager. She has 12 years of experience in civil engineering, including consulting experience in engineering, design, project management. Rebecca's project experience includes water distribution system design, sanitary and storm water collection systems, sanitary sewer lift station and force main design, drainage impact analysis, HEC-RAS modeling (1D and 2D), off-system bridge replacements, subdivision, and commercial site design. Rebecca serves as the Project Manager and Project Engineer on the 2023-035D-WRB Kenner

Waterline Project (21st Street to 14th Street). Her resume is included in this submission.

3. One employee who is a professional engineer registered as such in Louisiana in the field or fields of expertise required for the project.

Rebecca Howell, PE meets the requirements of MPR #3.

Evaluation Criteria

1. Professional training and experience in relation to the type of work required for the routine engineering services.

WSP has extensive experience in the design and rehabilitation of water and wastewater distribution and collection systems. This includes expertise in civil, structural, and mechanical/electrical engineering. In this submission, we show projects completed by WSP where both routine and complex engineering solutions are provided to our clients.

WSP USA provides innovative solutions and technologies for planning, engineering, and management to improve the effectiveness of operations, maintenance and replacement of aging and failing drinking water and wastewater treatment and conveyance systems. We deliver a full range of planning, design and construction management services for outfalls, pipelines, pump stations, flow control facilities and other special structures related to water and wastewater— all intended to improve water quality while meeting strict environmental regulations.

We have completed planning, design and permitting of numerous municipally owned wastewater systems for new, rehabilitated or expanded wastewater treatment plants. Wastewater treatment design has involved current technologies in biological nutrient removal and advanced wastewater treatment from relatively small systems to regional wastewater treatment systems.

For water and wastewater conveyance systems, our experience includes planning, condition assessment, new and rehabilitation design, and construction management of water transmission and sanitary sewer pipeline systems, as well as outfalls, pump station and other major flow control related to the transmission and conveyance of water, wastewater, and reclaimed wastewater.

We have extensive experience in solving combined sewer overflow and sanitary sewer overflow problems includes separation of sewer and storm water collection systems, area-wide storage and transport remedies, and state-of-the-art gray and green infrastructure technologies.

2. Capacity for timely completion of newly assigned work, considering the factors of type of routine engineering task, current unfinished workload, and person or firm's available professional and support personnel.

WSP has the capacity to complete all tasks that might be assigned under this contract. The individuals identified, resumes provided, have the availability to start work immediately.

WSP prides itself in providing high quality services on time and within our clients' budgets. Even if there is an aggressive schedule, we can provide resources quickly to meet demands. With more than 2500 professionals located in the firm's Southeast region, we can staff projects and contracts large and small, simple, and complex, at a moment's notice.

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

WSP's office is located at 1100 Poydras Street in New Orleans. Most of the work will be performed from this office. There could be instances when a subject matter expert is needed, and their work could be performed remotely, but all work will undergo the strict quality control and assurance reviews in our New Orleans office. This ensures that all state and local regulations and requirements are met.

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

WSP USA Inc. has had NO legal proceedings with Jefferson Parish.

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

WSP has a portfolio of experience that spans from planning, design, and construction management of

large diameter pipelines, sewers, outfalls, water and force mains, separate and combined collection systems, pump stations, flow control facilities, as well as special structures related to the storage, transmission and conveyance of water, wastewater, and reclaimed water. Jefferson Parish will benefit from the lessons learned and innovative solutions we bring from similar projects. The projects included in the questionnaire all have verifiable references.

6. Size of firm, considering the number of professional and support personnel required to perform the type of routine engineering tasks, including project evaluation, project design, drafting of technical plans, development of technical specifications and construction administration.

Nationally, our staff of 10,000+ provide engineering and multidisciplinary services in a vast array of industry sectors, with a focus on technical excellence and client service. In Louisiana, we have a staff of 38. We will assemble our team as we see the scope of the work for any engineering tasks.

7. Past Performance by person or firm on Parish contracts.

WSP is currently completing work on the Jefferson Parish Bonnabel Blvd. Improvements project. Brian Hundt, PE is serving as the project engineer on the Bonnabel Blvd. project. His resume is included in this package. WSP anticipates starting work in Q3 of 2024 on Project 2023-035D-WRB Kenner Waterline Project (21st Street to 14th Street) (Resolution #143101), which will be lead and managed by Rebecca Howell.

Additionally, all proposed team members have experience working on projects within Jefferson Parish or in neighboring Parishes. In addition, our Louisiana Area Manager, Max Nassar, will serve as Officer in Charge. Max will ensure that Jefferson Parish receives the highest quality of service and deliverables.

Max is a life-long resident of Louisiana and will devote his considerable efforts to understanding the challenges faced by the Parish and will make sure that the very best individuals are assigned to exceed your expectations of our firm.

Statement of Qualifications

AFFIDAVIT

STATE OF Louisiana

PARISH/COUNTY OF Jefferson

BEFORE ME, the undersigned authority, personally came and appeared: Max Nassar
_____, (Affiant) who after being by me duly sworn, deposed and said that
he/she is the fully authorized Senior Vice President of WSP USA, Inc. (Entity),
the party who submitted a Statement of Qualifications (SOQ) to 24-013
Routine Engineering Services for Water Projects (Briefly describe the services the SOQ
will cover), to the Parish of Jefferson.

Affiant further said:

Campaign Contribution Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A X Attached hereto is a list of all campaign contributions, including the date and amount of each contribution, made to current or former elected officials of the Parish of Jefferson by Entity, Affiant, and/or officers, directors and owners, including employees, owning 25% or more of the Entity during the two-year period immediately preceding the date of this affidavit or the current term of the elected official, whichever is greater. Further, Entity, Affiant, and/or Entity Owners have not made any contributions to or in support of current or former members of the Jefferson Parish Council or the Jefferson Parish President through or in the name of another person or legal entity, either directly or indirectly.

Choice B _____ there are **NO** campaign contributions made which would require disclosure under Choice A of this section.

Affiant further said:

Debt Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all debts owed by the affiant to any elected or appointed official of the Parish of Jefferson, and any and all debts owed by any elected or appointed official of the Parish to the Affiant.

Choice B X There are **NO** debts which would require disclosure under Choice A of this section.

Affiant further said:

Solicitation of Campaign Contribution Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all elected officials of the Parish of Jefferson, whether still holding office at the time of the affidavit or not, where the elected official, individually, either by **telephone or by personal contact**, solicited a campaign contribution or other monetary consideration from the Entity, including the Entity's officers, directors and owners, and employees owning twenty-five percent (25%) or more of the Entity, during the two-year period immediately preceding the date the affidavit is signed. Further, to the extent known to the Affiant, the date of any such solicitation is included on the attached list.

Choice B X there are **NO** solicitations for campaign contributions which would require disclosure under Choice A of this section.

Affiant further said:

Subcontractor Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Affiant further said that attached is a listing of all subcontractors, excluding full time employees, who may assist in providing professional services for the aforementioned SOQ.

Choice B X There are **NO** subcontractors which would require disclosure under Choice A of this section.

Affiant further said:

That Affiant has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for Affiant; and

[The remainder of this page is intentionally left blank.]

That no part of the contract price received by Affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for Affiant.



Signature of Affiant

MAX NASSAR

Printed Name of Affiant

SWORN AND SUBSCRIBED TO BEFORE ME

ON THE 12th DAY OF June, 2024, in Baton Rouge, Louisiana.



Notary Public

Phaedra Canright

Printed Name of Notary

83530

Notary/Bar Roll Number



My commission expires Lifetime, Ascension

Contributions by Affiant, Max Nassar		
ELECTED OFFICIAL	Date	Amount
JEFFERSON PARISH		
Dominic Impastato, Councilmember		
	April 21, 2022	\$100.00
	May 21, 2022	\$100.00
	June 21, 2022	\$100.00
	July 21, 2022	\$100.00
	August 21, 2022	\$100.00
Deano Bonano	April 28, 2023	\$100.00
Jack Rizzuto, Candidate Jefferson Parish Council		
	August 14, 2023	\$1,000.00
	September 28, 2023	\$1,500.00