

Statement of Qualifications

Coastal Engineering Consulting Services in Jefferson Parish

SOQ 24-020
Resolution No. 144205
July 16, 2024



Submitted By:
Aptim Environmental & Infrastructure, LLC
2424 Edenborn Avenue, Suite 450
Metairie, Louisiana 70001
Telephone: 504-832-4878 • Fax: 504-832-4897





July 16, 2024

Jefferson Parish Council
General Government Building
200 Derbigny Street, Suite 6700
Gretna, Louisiana 70053

**Reference: SOQ 24-020 Coastal Engineering Consulting Services as needed
parish wide
Jefferson Parish Government**

To Whom It May Concern:

In response to your recent Public Notice regarding the subject project, Aptim Environmental & Infrastructure, LLC (APTIM) is pleased to submit the enclosed Qualifications Statement and Professional Services Questionnaire to Jefferson Parish.

APTIM maintains a local office on the East bank (Metairie) of Jefferson Parish and can draw additional support from our other Louisiana offices, centrally located within Orleans, Terrebonne, and East Baton Rouge Parishes. Our Louisiana offices in Metairie, New Orleans, Houma, and Baton Rouge also have the ability to reach out to APTIM's vast pool of talented professionals across the U.S. and around the world.

APTIM offers a wide range of Engineering and Environmental consulting services. Our team's experience and background will allow us the capacity to provide the level of competency and professionalism required to accomplish the project objectives.

We are prepared to begin the subject project upon notice of award and negotiation of mutually agreed upon terms and will provide the necessary services throughout the contract term. We appreciate the opportunity to submit the enclosed Statements and Questionnaires and look forward to continuing our long standing and productive relationship with Jefferson Parish.

Sincerely,

Aptim Environmental & Infrastructure, LLC

A handwritten signature in blue ink, appearing to read 'Hamid R. Alizadeh', written over a horizontal line.

Hamid R. Alizadeh, P.E.
Operational Manager

TEC Professional Services Questionnaire



A. Project Name and Advertisement Resolution Number:

Routine Engineering Services for Streets Projects in Jefferson Parish SOQ No. 24-020 (Resolution No. 144205)

B. Firm Name and Address where Project work will be performed:



**APTIM ENVIRONMENTAL & INFRASTRUCTURE, LLC
2424 Edenborn Avenue, Suite 450
Metairie, Louisiana 70001**

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:

Hamid R. Alizadeh, P.E., Operations Manager
Louisiana Licensed Professional Engineer
P.E. License No. 24449
Tel: (504) 832-4878 Fax: (504) 832-4897
Email: hamid.alizadeh@aptim.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.

Hamid R. Alizadeh, P.E., Operations Manager
Louisiana Licensed Professional Engineer
P.E. License No. 24449
Tel: (504) 832-4878 Fax: (504) 832-4897
Email: hamid.alizadeh@aptim.com

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

<u>14</u> Administrative	<u>2</u> Estimators	<u>3</u> Specification Writers
<u>1</u> Architects (Licensed)	<u>4</u> Geologists	<u>1</u> Structural Engineers
<u> </u> Chemical Engineers	<u> </u> Geotechnical Engineers	<u> </u> Graduate Engineers
<u>7</u> Civil Engineers	<u> </u> Interior Designers	<u>3</u> Project Managers
<u>2</u> Construction Inspectors	<u> </u> Landscape Architects	<u>3</u> Clerical
<u>4</u> Ecologists	<u> </u> Land Surveyor	<u>2</u> Grant/Funding Specialist
<u>1</u> Electrical Engineers	<u>1</u> Mechanical Engineers	<u> </u> Sanitary Engineers
<u>3</u> Engineer Intern	<u>2</u> Environmental Engineers	
<u> </u> Professional Land Surveyors		<u>53</u> TOTAL

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

If marked "NO" Skip to Section I. If marked "YES" complete Sections G-H.

TEC Professional Services Questionnaire



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

1. N/A

2. N/A

H. Has this JOINT –VENTURE previously worked together? Please check: N/A

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. 2-98(a)(3). Please attach additional pages if necessary.

Name & Address	Specialty	Worked with Firm Before (Yes or No):
1. Note: The use of a sub-consultant (survey, geotechnical, testing, etc.) will be proposed for the specific project at time of project selection and contract authorization through council resolution		
2.		
3.		

J. Please specify the total number of support personnel that may assist in the completion of this Project: 53

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:

Hamid R. Alizadeh, P.E., Operations Manager

Project Assignment:

Civil & Environmental Engineer, Principal-in-Charge

Name of Firm with which associated:

Aptim Environmental & Infrastructure, LLC

Years' experience with this Firm:

32 Years

Education: Degree(s)/Year/Specialization:

B.S./1981/Civil Engineering • M.S./1985/Civil Engineering

Active Registration: Year first registered/discipline:

1991/Civil Engineering/LA License No. 24449

Other experience and qualifications relevant to the proposed Project:

Working as a Civil Design Engineer since 1981, Mr. Alizadeh has developed conceptual, preliminary, and final designs for several drainage and roadway design, water and wastewater design (collection and treatment), and mechanical and structural design projects. He is experienced in program management, construction management; cost analysis; project coordination and scheduling; construction cost estimates; construction supervision; daily QC/QA reporting; review and approval of shop drawings; verification of contractor's submittals; and invoicing.

Employment History:

- Aptim Environmental & Infrastructure, LLC, LA, *Operations Manager (1992– to date)*
- Environmental Professionals Limited, LS, *Project Engineer (1985-1992)*

Project Experience:

Clearview Pkwy / St. Peter's Ditch (Phase 3A), Jefferson Parish Department of Public Works, Jefferson Parish, Louisiana As the principal engineer, Mr. Alizadeh was responsible for the design and construction contract administration.

Clearview Pkwy / St. Peter's Ditch (Phase 3 B), Jefferson Parish Department of Public Works, Jefferson Parish, Louisiana (As Project Manager and Principal Engineer, Mr. Alizadeh oversaw and managed the design and construction contract administration.

Clearview Pkwy / St. Peter's Ditch (Phase 3C), Jefferson Parish Department of Public Works, Jefferson Parish, Louisiana Mr. Alizadeh is responsible for the management of the design and construction contract administration for this project.

TEC Professional Services Questionnaire



Other experience and qualifications relevant to the proposed Project (continued):

Hamid. R. Alizadeh, P.E.

Clearview Pkwy / St. Peter's Ditch (Phase 4) Pump Station, Jefferson Parish Department of Public Works, Jefferson Parish, Louisiana As Project Manager and Principal Engineer, Mr. Alizadeh oversaw the design process and will manage the construction administration portion of this project as it moves forward.

Westwego Pump Station No.1 Improvements, Jefferson Parish Department of Public Works, Jefferson Parish, Louisiana Mr. Alizadeh oversaw the design and construction contract administration as the principal engineer.

Additional projects that Mr. Alizadeh managed as principal engineer within the metropolitan New Orleans area are outlined below:

City of Kenner - Webster Street Roadway and Drainage Improvements; Jackson Street Roadway and Drainage Improvements Water Treatment Plant; Urban Flood Control Project; Coastal Wetlands Conservation and Restoration Plan

Terrebonne Parish - Brady Road Drainage and Roadway; F-Street Paving; Bayou Lacache Pumping Station

Jefferson Parish - Bi-Directional Culvert Crossings on W. Esplanade Avenue, Drainage Capital Improvements; West Bank Water Chlorination System

Lafitte - Goose Bayou Levee Alignment; Crown Point Water Quality Study and Report; Canal E and Fleming Canal Pump Stations

West Jefferson Levee District - Crown Point Levee Alignment; Permits for Baratavia; Rosethorne; Gloria Drive and Lafitte Tidal Flood Protection Projects

City of Westwego - Waterline Extensions; WPA Drainage Canal Improvements; Water Tower Booster Pump; Wastewater Treatment Plant Improvements; Overall Hurricane Protection Plan for West Bank of Jefferson Parish

St. Charles Parish - Precast Concrete Access Bridge for Raw Water Intake (Mississippi River).

Regulatory Experience

Jefferson Parish Kelven Landfill - Prepared geotechnical and geohydrologic portions of an LDEQ Solid Waste Permit Application for Phase IIA-Expansion of the landfill.

LPDES/NPDES Discharge Permits - Houma, LA - Evaluated facility processes and secured water discharge permits for shrimp processing facility.

New Orleans Lakefront Airport Multi-Sector Storm Water Permitting - New Orleans, LA - Evaluated drainage system layout, coordinated tenant education and planning, developed a Storm Water Pollution Prevention Plan, and filed an NOI for EPA permit coverage.

Blackhawk Plantation Well Site Environmental Assessment - Concordia Parish, LA - Completed regulatory compliance evaluation of eight active petroleum well structures.

Flood Control Experience

Fisher School Basin Feasibility Study - Jean Lafitte, LA - Evaluated and prepared environmental studies components of a USACE flood protection feasibility study on behalf of the local sponsor.

Rosethorne Basin Feasibility Study - Jean Lafitte, LA - Evaluated and prepared environmental studies components of a USACE flood protection feasibility study on behalf of the local sponsor.

TEC Professional Services Questionnaire



KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Gerard Gillen, PE
Project Assignment
Project Manager
Name of Firm with which associated:
Aptim Environmental & Infrastructure LLC
Year's Experience with this Firm
3
Education: Degree(s)/Year/Specialization
B.S./1981/Civil Engineering
Active Registration: Year first registered/discipline:
1988/Civil Engineering/LA License No. 23072
Other experience and qualifications relevant to the proposed Project:
<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>Mr. Gerard Gillen has over 40 years of engineering experience in both engineering consulting and state government. This has provided the opportunity to supervise staff, coordinate with public agencies, administer consultant and construction contracts, administer grants, and present projects in public forums and Board meetings. Mr. Gillen was employed by the Port of New Orleans as a project engineer for the Nashville B and C Wharf and Shed Projects including foundation design, cost estimation, technical specifications, and coordination of contracted geotechnical, mechanical, electrical, and container crane disciplines. Mr. Gillen went on to excel his career at the Orleans Levee District where he progressed from an Engineer Supervisor and Assistant Chief Engineer, to Chief Engineer, onto become the Executive Director for Orleans Levee District for over 10 years. Before joining APTIM this year, Mr. Gillen acted as Director of Operations for the SLFPA-East.</p> </div> <div style="width: 48%; padding-left: 20px;"> <p><u>Employment History:</u></p> <ul style="list-style-type: none"> Aptim Environmental & Infrastructure, LLC <i>Project Manager (2020-present)</i> <p><u>Project Experience:</u></p> <p>Permanent Canal Closures and Pumps (PCCP) New Orleans, LA</p> <p>Managed the operation and maintenance transfer of the \$615M US Army Corps of Engineers PCCP completed project to the Flood Protection Authority – East. Duties included site coordination of ongoing USACE contractor warranty work, developing an asset maintenance management plan, implementing an operation training program for new employees, and procuring equipment, support services and extended warranty agreements. Project Manager for maintenance improvement contracts included the design and construction of bulk tanks fuel offload improvements and enhancing security for the three locations.</p> </div> </div>

Other experience and qualifications relevant to the proposed Project (continued): *Gerard Gillen, PE*

**Florida Ave and 40 Arpent Stormwater
Protection Levee O&M Manual
New Orleans and St Bernard, LA**

Coordinated and drafted the production of an O&M Manual as required for the FEMA accreditation of the existing 19 mile tidal and drainage protection levee. Operations and maintenance features addressed in the manual were levees, floodwalls, floodgates and drainage structures.

**Pump Station 6 and 7 Pump and Outfall Pipe
Repairs
St Bernard, LA**

FEMA authorized repairs for the Katrina corrosion damaged pumps and outfall pipe hangars including refurbishing six pumps that provide 1900 cfs of stormwater drainage. Duties included contract administration of consultant and construction contracts including design, bidding, construction and construction management and submitting reimbursement requests to GOHSEP and FEMA.

**Lake Borgne Storm Surge Barrier
New Orleans and St Bernard, LA**

Managed the operation and maintenance transfer of the \$1.1B storm surge barrier that consists of 1.8 miles of concrete barrier wall, a flood control sector gate and a bypass barge gate both 150 feet wide and a vertical lift gate at Bayou Bienvenue. Duties included developing an asset maintenance management

TEC Professional Services Questionnaire



KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	Gene S. Gillen, P.E., Civil Engineer
Project Assignment	Project Manager
Name of Firm with which associated:	Aptim Environmental & Infrastructure, LLC
Year's Experience with this Firm	15
Education: Degree(s)/Year/Specialization	B.S./1996/Civil Engineering
Active Registration: Year first registered/discipline:	2001/Civil Engineering/ LA License No. 29384
Other experience and qualifications relevant to the proposed Project:	
<p>Mr. Gillen is a Registered Civil Engineer with more than 20 years of experience in a broad range of civil projects. His design and project management experience for Jefferson Parish includes roadway design, sub-surface drainage improvements, new drainage pump stations, relocating sewer lift stations, and coastal restoration and protection projects. Mr. Gillen has managed these projects from design through construction. Previously, Mr. Gillen designed and managed transportation planning projects for LaDOTD, including the future I-49 South corridor from Raceland to the West Bank Expressway. Mr. Gillen is familiar with the NEPA process and has completed the National Highway Institute's (NHI) course "National Environmental Policy Act (NEPA) and Transportation Decision Making". Other design experience includes storm water detention, water distribution, sewer collection systems, commercial site development, and residential land development.</p> <p><u>Employment History:</u></p> <ul style="list-style-type: none"> ◆ Aptim Environmental & Infrastructure, LLC, LA, Sr. Project Engineer (2009 to present) ◆ Tower Engineering, LLC, LA, Project Engineer (2004-2009) 	<ul style="list-style-type: none"> ◆ DMJM+Harris, LLC, LA, Deputy Project Manager/Project Engineer (2002-2004) ◆ Buchart-Horn, Inc., LA, Regional Office Manager/Project Engineer (1998-2002) ◆ Kelly J. McHugh & Assoc., Inc., LA, Project Engineer (1996-1998) <p><u>Project Experience:</u></p> <p>Project Manager and Engineer, Clearview Pkwy / St. Peter's Ditch (Phase 3A), Jefferson Parish Department of Public Works, Jefferson Parish, Louisiana As the engineer of record, Mr. Gillen was responsible for the design and construction contract administration of 2,625 linear feet of pre-cast 6x6 Reinforced Concrete Box culverts, 325 linear feet of dual cell pre-cast railroad box culverts, and other miscellaneous lateral pipe, drop inlets, manholes, junction boxes, and final grading of the project site. The installed drainage pipe corridor reaches from Cross-Canal at Earhart Expressway to Airline Drive, traversing five active railroad tracks and the Garden of Memories Cemetery.</p> <p>Project Manager and Engineer, Clearview Pkwy / St. Peter's Ditch (Phase 3 B), Jefferson Parish Department of Public Works, Jefferson Parish, Louisiana As Project Manager and Project Engineer, Mr. Gillen managed the design and</p>

TEC Professional Services Questionnaire



Other experience and qualifications relevant to the proposed Project (continued):

Gene S. Gillen, P.E.

construction contract administration of 318 linear feet of pre-cast 6x6 Reinforced Concrete Box culverts, 508 linear feet of 42" diameter drain pipes utilizing trenchless installation methods, and other miscellaneous lateral pipe, drop inlets, manholes, junction boxes, and parking lot pavement to final grade. The installed drainage pipe corridor reaches from the south side of Airline Drive to the north end of Harry's Dive Shop parking lot. *Total project construction cost = \$3.5 million.*

Project Manager and Engineer, Clearview Pkwy / St. Peter's Ditch (Phase 3C), Jefferson Parish Department of Public Works, Jefferson Parish, Louisiana As the engineer of record, Mr. Gillen is responsible for the design and construction contract administration of 4,792 linear feet of pre-cast 6x6 Reinforced Concrete Box culverts, 76 linear feet of pre-cast 5x8 Reinforced Concrete Box culverts, and other miscellaneous lateral pipe, drop inlets, manholes, junction boxes, and final grading of the project site. The drainage pipe corridor stretches from Harry's Dive Shop at Airline Highway to W. Metairie Canal, traversing between two developed subdivisions in a very narrow drainage right-of-way. *Current project construction cost = \$7.0 million.*

Project Manager and Engineer, Clearview Pkwy / St. Peter's Ditch (Phase 4) Pump Station, Jefferson Parish Department of Public Works, Jefferson Parish, Louisiana

As Project Manager and Project Engineer, Mr. Gillen managed the design process for a new 220 cfs drainage pump station to be constructed at the Clearview Pkwy. and Earhart Blvd. interchange. The public bid process was recently completed and construction shall begin in the summer of 2016. The project was bid under budget. *Low bidder construction cost = \$6.2 million.*

Project Manager and Engineer, Westwego Pump Station No.1 Improvements, Jefferson Parish Department of Public Works, Jefferson Parish, Louisiana As the engineer of record, Mr. Gillen was responsible for the design of a pump station upgrade from 300 cfs to 600 cfs. Station improvements include a new pile supported concrete pump platform within the existing intake

basin, two new 100 cfs pumps each with a 400hp electric motor, space for a future third 100 cfs pump with electric motor, a new MCC control house, two back-up diesel generators, and 180 linear feet of 48" diameter steel discharge pipes. *Total project construction cost = 3.6 million*

Project Engineer, Upper Kraak Pump Station Improvements, Jefferson Parish Department of Public Works, Jefferson Parish, Louisiana

Mr. Gillen designed the pump station upgrade from 110 cfs to 180 cfs. Station improvements include a new pile supported foundation, two 35 cfs pumps with electric motors, concrete in-take basin, steel discharge piping, trash screen, MCC control house, and a 400 kW back-up diesel generator. The existing duplex system shall be rehabilitated to be controlled by the new MCC control house and back-up generator.

Jefferson Parish Department of Public Works, Veterans Boulevard Improvements (Mississippi Avenue to David Drive), Jefferson Parish, LA.

Project included widening an existing four-lane, urban, high-volume roadway with raised median to six lanes. Services included the hydraulic design of new subsurface drainage, geometric planning, striping and pavement marking, and cost estimating. Project included coordination around existing sewer and water lines that required adjustments. Mr. Gillen designed new sub-surface trunk lines that outfall into the Soniat Canal.

TEC Professional Services Questionnaire



KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Paul Tschirky, PhD, PE, DCE
Project Assignment
Project/Environmental Manager
Name of Firm with which associated:
Aptim Environmental & Infrastructure LLC
Year's Experience with this Firm
3
Education: Degree(s)/Year/Specialization
PhD, Civil (Coastal) Engineering BS/1998/Civil Engineering
Active Registration: Year first registered/discipline:
Professional Engineer – Civil – Canada (No. 90424029)
Other experience and qualifications relevant to the proposed Project:
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Dr. Paul Tschirky is Senior Director in the Coastal, Ports, and Marine Group at APTIM with more than 20 years of experience in coastal engineering, resiliency, restoration, and water management. He has provided planning, design, analysis, modeling, construction documents, and project management for a wide variety coastal and riverine projects for public and private sector clients. Dr. Tschirky has led multidisciplinary teams developing coastal master plans, preparing guidance for the design of coastal infrastructure, and assessing the impact of coastal structures. Projects have ranged in size from small beach nourishments to state-wide coastal planning studies.</p> <p><u>Employment History:</u></p> <ul style="list-style-type: none"> Aptim Environmental & Infrastructure, LLC, LA, <i>Senior Director Coastal Engineering and Resiliency (2020 to date)</i> </div> <div style="width: 45%;"> <p><u>Project Experience:</u></p> <p>Golden Triangle Marsh Creation Project Orleans Parish, LA Senior technical reviewer for engineering and design of proposed marsh creation project in Orleans Parish for the Louisiana Coastal Protection and Restoration Authority (CPRA). CPRA is implementing this project through the Resources and Ecosystems Sustainability, Tourist Opportunities, and Revived Economies of the Gulf Coast States Act (RESTORE Act) as well as NRDA. Conducted ecological profiles, vegetation assessments, fisheries assessments, wetland monitoring, and salinity analysis.</p> <p>LCA BUDMAT Program West Bay and Tiger Pass USACE New Orleans/Plaquemines Parish, LA Project Manager as part of team providing planning and engineering and design services for the Parish (local cost share partner) as part of the Louisiana Coastal Area (LCA) Beneficial Use of Dredged Material (BUDMAT) Program with the U.S. Army Corps of Engineers.</p> </div> </div>

TEC Professional Services Questionnaire



Other experience and qualifications relevant to the proposed Project (continued): *Paul Tschirky, PhD, PE, DCE*

Work includes developing and evaluating alternatives for the beneficial use of navigation maintenance dredge material including dredge placement modeling, alternative sediment delivery analysis, developing cut/fill dredge quantities, design templates, and design layouts for selected plans.

Mississippi River Long Distance Sediment Pipeline and Bayou Dupont Marsh and Ridge Creation Projects - Plaquemines and Jefferson Parishes, Louisiana

Project Manager and technical lead preparing designs, plans, specifications, cost estimate, and bid package for combined project which includes placement of 13 miles of sediment delivery pipeline, 38,000 feet of containment dikes, 11,000 feet of ridge, over 7 million cubic yards of dredging from the river and the creation of over 600 acres of marsh. This includes corridor, potential marsh restoration, alignment/placement, design, cost analysis, and river sediment borrow site assessment and dredging. Prepared pre-bid meeting, site visit, and pre-construction support. Provided construction administration and inspection for the \$80M joint State and NOAA project.

Pontchartrain Levee District Shoreline Protection and Wetland Restoration - St. Charles Parish, Louisiana

Project manager for multiphase project to protect and enhance 18,000 feet of Lake Pontchartrain shoreline and restore of the LaBranche Wetlands. The project includes a feasibility study, joint watershed planning study with the USACE, extensive hydrodynamic numerical modeling of flows, salinity, fresh water inputs (included assessment of the Cross-Bayou pump station), and self-regulating salinity intrusion restriction structures along key waterways. Development of plans and specifications of the construction of shore protection along the Lake Pontchartrain shoreline including detached breakwaters, sills, revetments, lightweight materials, and beneficial use opportunities to create and enhance habitat.

TEC Professional Services Questionnaire



KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Stephen Keehn, PE (FL)
Project Assignment
Sr. Coastal Engineer
Name of Firm with which associated:
Aptim Environmental & Infrastructure LLC
Year's Experience with this Firm
32
Education: Degree(s)/Year/Specialization
Master of Engineering – Coastal & Hydraulic Engineering Bachelor of Engineering/1991/Civil Engineering
Active Registration: Year first registered/discipline:
Professional Engineer – Civil - FL (No. 34857)
Other experience and qualifications relevant to the proposed Project:
<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>Stephen Keehn, PE, is a Program Advisor and Senior Coastal Engineer. He served with the U.S. Army Corps of Engineers, Jacksonville District in planning, engineering, and construction assignments on beach and navigation projects. He continued this type of work with APTIM, where his major programs include those for Collier County, Captiva Island, Panama City Beaches in Florida and Fire Island, New York. He has served as a Project Manager and Senior Coastal Engineer with CB&I/ APTIM since 1992 on numerous beach and inlet projects including four ASBPA Top Restored Beaches. He has worked on over a dozen inlet management plans in addition to planning, designing and permitting of numerous inlet structures and dredging projects. He won the Per Brunn Distinguished Service Award by the Florida Shore and Beach Preservation Association in 1999. He was recently honored by the Bay County Tourist Development Council of Panama City Beach, which declared August 12, 2014 “Stephen Keehn Day” for his instrumental role in their beach nourishment program.</p> </div> <div style="width: 48%; vertical-align: top;"> <p><u>Employment History:</u></p> <ul style="list-style-type: none"> • Aptim Environmental & Infrastructure, LLC <i>Coastal Engineer (1992-present)</i> <p><u>Project Experience:</u></p> <p>Beach Renourishment Project Collier County, Florida Mr. Keehn was Senior Project Manager for Collier County’s coastal program including the beaches between Vanderbilt Beach and Naples. Work for this project included preparation of a comprehensive engineering report to identify alternatives, natural resources and scope for the project. His tasks included field inspections, survey data analysis, volumetric and shoreline change calculations, sand search, as well as preparation and presentation of annual monitoring reports. He conducted inspection and evaluation of the existing outfall and groin structures along the project area and analyzed trends related to the sediment budget and inlet effects. The design incorporated techniques to avoid nearshore habitat impacts. Mr. Keehn designed and developed plans and specifications for the construction of a 1.09-acre artificial reef in Naples, Florida as mitigation for the beach project.</p> </div> </div>

Other experience and qualifications relevant to the proposed Project (continued): *Stephen Keehn, PE*

Florida Inlet Management Plan and Navigation Improvement Project

Collier County, Florida

Mr. Keehn was project manager for improvements to a sand bypassing plan and navigation channel design to increase the maintenance dredging interval and reduce adjacent shoreline impacts within the County and Parks planning objectives. He managed modeling, design, permitting, field investigations, and permit activities leading to project construction in 2013, 2015 and 2018.

Combined Doctors & Wiggins Pass 2009

Maintenance Dredging

Collier County, Florida

As project manager, Mr. Keehn was responsible for the project management, design, and construction management of the Doctors and Wiggins Pass project. Tasks included contractor selection, construction observations, verification of fill volume placement, and compliance with project permit conditions.

Jefferson
Parish
State of Louisiana

TEC Professional Services Questionnaire



KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Jeffrey Hillson, PE, SE
Project Assignment
Structural Engineer
Name of Firm with which associated:
Aptim Environmental & Infrastructure LLC
Year's Experience with this Firm
10
Education: Degree(s)/Year/Specialization
B.S./1980/Civil Engineering
Active Registration: Year first registered/discipline:
Professional Engineer – Civil - LA (No. 38884) NCEES Professional Engineer, Nationwide - (53504)
Other experience and qualifications relevant to the proposed Project:
<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>Jeffrey Hillson has over 40 years of national and international, structural/civil engineering experience on nearly 500 public and private-sector design-build and design-bid-build projects. He has demonstrated ability in detail design, specifications, report writing, teamwork, coordination, life cycle analysis, bid evaluation, cost-estimating, safety, and constructability of multidisciplinary engineering projects across diverse markets, including: flood control structures; marine and port facilities; coastal engineering structures; bridges and transportation infrastructure; commercial buildings; water/wastewater facilities; industrial and chemical facilities;. Structural/civil engineering of infrastructure for environmental projects include revetments for marine landfill caps, ground water remediation, barrier wall performance specifications and pond liners. Mr. Hillson holds (shares) a U.S. Patent (7,431,686) granted for specialized mobile vapor containment structure used by USACE for cleanup of unexploded ordinance. Mr. Hillson, with previous firm was seconded to the San Antonio Area Office (SAAO) of the USACE to provide structural supervisory support for BRAC projects at Ft. Sam Houston and Lackland AFB during 2011-12.</p> </div> <div style="width: 48%;"> <p><u>Project Experience:</u></p> <p>Houma Navigation Canal (HNC) Lock Complex Terrebonne Parish, LA Mr. Hillson was responsible for structural design of precast concrete, Inland Side Sector Gate Float-In Monolith located at the north end of the proposed Lock Chamber as well as cofferdam for construction of Gulfside Sector Gate Monolith, located at the south end of the Lock Chamber.</p> <p>Point-Aux-Chenes, Flood and Roller Gates (TL&CD) Terrebonne Parish, LA Mr. Hillson was responsible for the structural design of structural steel roller-gate, its pile- supported foundation and integration with the public road as well as steel sheet pile bulkhead for roadway.</p> <p>Bayou Teche and Grand Bayou Flood Control Structures - St. Mary Levee District Mr. Hillson was responsible for the structural design of equipment support on floodgates.</p> </div> </div>

TEC Professional Services Questionnaire



Other experience and qualifications relevant to the proposed Project (continued):

Jeffery Hillson, PE

**Franklin Canal Floodgate and Pump Station,
SMLD/LA CPRA - Franklin, LA**

Mr. Hillson was responsible for the structural independent check of support piles for the pump house, preparation of technical specifications, as well as review of technical submittals during construction phase.

**Bayou Chene Floodgate, SMLD - St Mary Parish,
LA**

Mr. Hillson was responsible for the structural design of equipment support on the floodgate.



TEC Professional Services Questionnaire



KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Scott Vanzant, PE
Project Assignment
Civil Engineer
Name of Firm with which associated:
Aptim Environmental & Infrastructure LLC
Year's Experience with this Firm
2
Education: Degree(s)/Year/Specialization
B.S./1995/Civil Engineering
Active Registration: Year first registered/discipline:
2019/Civil Engineering/LA License No. 43426
Other experience and qualifications relevant to the proposed Project:
<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>Mr. Vanzant has over 28 years of civil engineering and construction management experience in design and permitting of coastal and flood control projects, OG&C facilities, industrial and municipal water/wastewater facilities. He has served as Civil/Structural Department Manager, Owner & Principal Engineer, Assistant City Engineer and Project Manager and is experience in Conceptual Studies, FEED, Final Design, Estimating and Construction Management for design only and full EPC/CM projects. Mr. Vanzant's technical skills include designing shoreline protection/erosion control structures, dredging & containment, civil site grading & drainage, roadways, storm water management and detention systems, hydrologic/hydraulic studies and design, water/wastewater distribution, collection, and treatment systems.</p> </div> <div style="width: 48%; padding-left: 20px;"> <p><u>Project Experience:</u></p> <p>Lead Project Engineer, Houma Navigation Canal (HNC) Lock Complex, Terrebonne Levee and Conservation District (TLCD), Terrebonne Parish, LA</p> <p>The HNC Lock Complex Project is an ecosystem restoration, salinity control, and flood control project. The project scope includes the placement of hydraulically dredged material, creation of lock structures and floodwall for flood and saltwater intrusion protection. Mr. Vanzant was the responsible Lead Engineer for bidding and construction administration services, progress survey reviews, construction documents compliance enforcement, RFI's and material submittal reviews, daily construction observation reporting, and accounting/invoicing approval.</p> <p>Project Engineer, Bayou Chene Flood Control Structure, St. Mary Levee District; St. Mary Parish, LA</p> <p>Mr. Vanzant was the engineer in charge of producing the final Operations & Maintenance Manual for the floodgate for St. Mary Levee District (SMLD) use.</p> </div> </div>

TEC Professional Services Questionnaire



Other experience and qualifications relevant to the proposed Project (continued):

Scott Vanzant, PE

Project Engineer, Regional Stormwater Detention System, Manvel, TX

This project was intended to provide regional flood control improvements by providing a large scale stormwater runoff collection system and detention pond. Mr. Vanzant was the responsible Engineer for providing preliminary design documents, sizing calculations, estimate and permitting for the regional detention system.

Project Engineer, Clarified River Water Project, DOW Oyster Creek, Freeport, TX

This project was intended to provide regional flood control improvements by providing a large scale stormwater runoff collection system and detention pond. Mr. Vanzant was the responsible Engineer for providing preliminary design documents, sizing calculations, estimate and permitting for the regional detention system.

Assistant City Engineer, Alvin, TX

Mr. Vanzant was responsible for review of commercial/residential development within the City and it's extra territorial jurisdiction. In house design of multiple water, sewer, roadway and drainage CIP projects. Co-authored the City's Drainage Criteria Manual and served as Floodplain Administrator (CFM).

Design Engineer, Skookumchuck River Floodplain Modeling, WA

Mr. Vanzant assisted in the HEC RAS/HMS modeling effort of the river system for FEMA Floodplain FIRM map revision.

TEC Professional Services Questionnaire



KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Brian S. Hava, P.G., Resident Inspector

Project Assignment

Sr. Environmental Specialist

Name of Firm with which associated:

Aptim Environmental & Infrastructure, LLC

Year's Experience with this Firm

32

Education: Degree(s)/Year/Specialization

B.S./1985/Geology

Active Registration: Year first registered/discipline:

1993/LEDQ UST Certified Closure C-0420-1993

Other experience and qualifications relevant to the proposed Project:

Mr. Hava has been employed in the environmental consulting industry for over 35 years, performing both project management and field level tasks. By virtue of this experience, he has gained knowledge and competency in a diverse array of state and federal regulatory issues, including the mandates established within the National Environmental Policy Act (NEPA) and the Comprehensive Environmental Response and Cleanup Liability Act (CERCLA). Mr. Hava has successfully conducted Environmental Assessments under the guidelines of the US Army Corps of Engineers (USACE) and the Federal Aviation Administration (FAA). He has also completed numerous Phase I and Phase II Assessments under ASTM guidelines. Mr. Hava is an accomplished technical writer and his ability to take complex scientific information and present it in language that is useful to a layman will be an asset to this project.

Employment History: Aptim Environmental & Infrastructure, LLC, LA, Scientist/Inspector (1991-to date)

Project Experience:

Water Quality Assessment , Mississippi

Completed sampling, analysis, and reporting on the water quality conditions of Back Bay in Biloxi, Mississippi.

Morganza to the Gulf of Mexico Feasibility Study, Louisiana

Coordinated with the USACE on the development of a feasibility level water quality assessment to evaluate flood protection implementation impacts.

Martin Marietta Storm Water Dispersion Study, Louisiana

Coordinated field efforts and performed sample analysis for dye study to model storm water dispersion at NASA Michoud Facility.

Lakeshore Drive Reach 1A Improvements, New Orleans, Louisiana

Completed Phase I and II Environmental Site Assessments of facilities to be demolished, prepared lead and asbestos abatement specifications, provided certified UST removal supervision, coordinated OSHA and environmental air quality monitoring, and documented all activities.

Bayou St. John Dredge Material Disposition, Louisiana

Sampled, analyzed, and negotiated with the LDEQ to secure approval of the onsite encapsulation of lead contaminated spoil.

TEC Professional Services Questionnaire



Other experience and qualifications relevant to the proposed Project (continued):

Brian Hava, P.G.

Galvez Street Drainage Improvements, Mandeville, Louisiana Prepared due-diligence Phase I Environmental Assessment of a drainage improvement project corridor in accordance with ASTM specifications.

Bulkhead Rehabilitation Status Investigation, New Orleans Lakefront Airport, Louisiana Completed preliminary analysis of impact categories per FAA specification and developed documentation required to obtain FONSI.

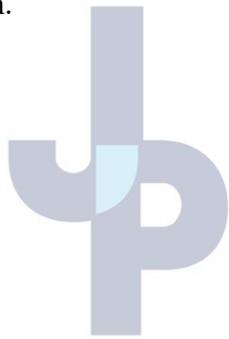
Former Steel Casting Foundry, Jefferson Parish, Louisiana Prepared Phase II Environmental Site Assessment of an industrial property in accordance with ASTM specifications.

Fisher School Basin Feasibility Study, Jean Lafitte, Louisiana Evaluated and prepared environmental studies components of a USACE flood protection feasibility study on behalf of the local sponsor.

Jefferson Parish Kelven Landfill, Jefferson Parish, Louisiana Prepared geotechnical and geohydrologic portions of an LDEQ Solid Waste Permit Application for Phase IIA-Expansion of the landfill.

Rosethorne Basin Feasibility Study, Jean Lafitte, Louisiana Evaluated and prepared environmental studies components of a USACE flood protection feasibility study on behalf of the local sponsor.

North-South Runway Extension, New Orleans Lakefront Airport, Louisiana Completed analysis of impact categories and developed a NEPA EA per FAA specification.



**Jefferson
Parish**
State of Louisiana

TEC Professional Services Questionnaire



KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	Vickie Duffourc, Environmental Specialist
Project Assignment	Environmental Specialist/Permit Advisor
Name of Firm with which associated:	Aptim Environmental & Infrastructure, LLC
Year's Experience with this Firm	21
Education: Degree(s)/Year/Specialization	B.S./1997/Environmental Science & Policy
Active Registration: Year first registered/discipline:	N/A
Other experience and qualifications relevant to the proposed Project:	
<p>Ms. Duffourc has over twenty years of professional experience in coastal zone planning and management, environmental regulatory compliance and wetlands permitting. Ms. Duffourc previously worked with the Jefferson Parish Department of Environmental Affairs, where she was instrumental in the development and implementation of coastal zone management regulations for Jefferson Parish. Prior to entering the environmental field, she worked for over ten years for various newspapers, printing agencies and publishing companies, where she gained extensive professional experience in publications and communications.</p> <p>At APTIM her job responsibilities as an environmental specialist include: project coordination and management; task management; design and preparation of work plans; technical report preparation and editing; environmental regulatory compliance and permitting; interaction with clients and regulatory agencies; and data research and analysis. She has used her broad experience base, comprehensive understanding of wetland policy and regulation and knowledge of coastal Louisiana to assist both business and governmental clients in a variety of projects.</p> <p><u>Employment History:</u></p> <p><i>Aptim Environmental & Infrastructure, Inc., LA, Environmental Specialist (1998–to date)</i></p>	<p>Project Experience:</p> <p>Coastal Impact Assistance Program (CIAP) Ms. Duffourc served as the program manager, assisting Jefferson parish with the program development of its local Coastal Impact Assistance Program. She helped to prepare 12 grant applications, as well as amendments to these grants, annual status reports and grant close-out reports as required to see five coastal restoration projects through completion. Ms. Duffourc also assisted with regulatory agency coordination, public outreach, project scoping, permitting, monitoring of program progress, and the delivery of documents for Jefferson Parish Reimbursements.</p> <p>Coastal Zone Boundary Study, Louisiana Department of Natural Resources, LA Developed methodology for marine spatial planning analysis to evaluate the effectiveness of current Louisiana coastal zone inland boundary, coordinated stakeholder outreach, and prepared final study report.</p>

TEC Professional Services Questionnaire



Other experience and qualifications relevant to the proposed Project (continued):

Vickie Duffourc

Coastal Zone Management Program Assistance, Jefferson Parish Department of Environmental Affairs, LA Assisted with the review of state and local coastal use permit applications; conceptual development of coastal restoration projects; liaison with coastal stakeholder groups; design and composition of public outreach materials; grant writing and assistance; conducted an analysis of all environmental and coastal zone management ordinances in Jefferson Parish to assess the need for revisions to the current program; drafted language for mitigation, appeals and enforcement procedures as requested by the Louisiana Department of Natural Resources Coastal Management Division; researched seismic regulations in Louisiana, coordinated with coastal stakeholders involved with or impacted by seismic operations and prepared a local ordinance to regulate seismic activity within parish boundaries.

Jefferson Parish Permit Information Center, LA Provided staff training in coastal use permitting procedures and developed public outreach materials designed to assist the general public with understanding and complying with permit regulations.

Jefferson Parish Conservation and Restoration Plan, LA Updated the Parish's conservation plan and researched existing wetland projects to identify future needs; planning, coordinating, and leading stakeholder meetings; and developing project fact sheets for conceptual projects.

Modification to the Memorandum of Understanding (MOU) between Jefferson Parish and the U.S. Environmental Protection Agency for the Marrero-Lafitte Waterline, LA Researched existing literature, compile data, conducted field investigation and completed an environmental impact document (EID) which successfully secured a modification to the MOU to allow water service to an existing eco-tourism business.

Greater Jefferson Port District Port Master Plan, LA Researched navigation and shallow port activities in Jefferson Parish and gathered social and economic data relative to waterborne commerce.

Port of Iberia, Port Master Plan, LA Prepared a comprehensive master plan of development of the Port of Iberia. Tasks for this project included personal interviews; field investigations; marine, inland waterways and general transportation economic data acquisition; socio-economic data analysis; and environmental assessments and impact evaluations.

Integrated Ecosystem Restoration and Hurricane Protection: Louisiana's Comprehensive Master Plan for a Sustainable Coast, LA Served as team lead for the regional planning unit captains in the research, development, and presentation of existing and proposed alternative levee alignments and coastal protection measures for each region of the coast. Acted as project coordinator to facilitate communication between the Integrated Planning Team and project personnel in planning, engineering, and GIS. This experience has provided her with extensive knowledge of the overall coastal protection goals for the State.

TEC Professional Services Questionnaire



KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Whitney Reese	
Project Assignment	
Scientist	
Name of Firm with which associated:	
Aptim Environmental & Infrastructure LLC	
Year's Experience with this Firm	
2	
Education: Degree(s)/Year/Specialization	
B.S./2022/Environmental Science	
Active Registration: Year first registered/discipline:	
N/A	
Other experience and qualifications relevant to the proposed Project:	
<p>Ms. Reese has assisted in providing administrative support and document control services for various environmental and engineering projects. She additionally assists with project coordination, environmental permitting, research, and data analysis. Ms. Cessac's experience includes assisting applicants in completing and submitting applications for coastal use permits; grant monitoring; local, state and federal government agency coordination support; and community outreach.</p> <p><u>Employment History:</u></p> <p><input type="checkbox"/> Aptim Environmental & Infrastructure, LLC, LA, Scientist/Admin Assistant (2022-to date)</p> <p><u>Project Experience:</u></p> <p>Multidisciplinary Engineering and Planning Services for the Jefferson Parish Environmental and Development Control Department Assists with the review of state and local coastal use permit</p>	<p>applications; conceptual development of coastal restoration projects; liaison with coastal stakeholder groups; design and composition of public outreach materials; and a variety of other administrative and technical tasks.</p> <p>Rosethorn Tidal Protection Levee, Lafitte, LA Responsible for providing necessary documentation for the acquisition of the permit including permit application, drawings, and correspondence.</p> <p>Jefferson Parish Street Improvement Projects, Jefferson Parish, LA. Assisted with Program/ Construction Management duties including but not limited to: project and program prep work, contract drafting, maintaining a GIS database for current and future projects, and data collection.</p> <p>Emergency Preparedness Building, Westwego, LA Maintain and edit master set of construction specifications for the project. Assist with project coordination with contractors.</p>

TEC Professional Services Questionnaire



KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	Cody A. Bruhl, CAPM
Project Assignment	Project Manager
Name of Firm with which associated:	Aptim Environmental & Infrastructure LLC
Year's Experience with this Firm	10
Education: Degree(s)/Year/Specialization	B.S./2009/Business Admin/Management
Active Registration: Year first registered/discipline:	Certified Levee Inspector, Active, Louisiana
Other experience and qualifications relevant to the proposed Project:	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Cody Bruhl has over 10 years of project management experience. Mr. Bruhl has extensive experience in coastal restoration, coastal monitoring and emergency & natural disaster programs. Provides project management & controls support to a variety of projects throughout APTIM's Coastal Ports & Marine Group.</p> <p><u>Employment History:</u> Aptim Environmental & Infrastructure, LLC, LA, Project Manager (2014-to date)</p> <p><u>Project Experience:</u></p> <p>CRMS-swamp Water Quality-CES, LLC Various Parishes, LA Operations Manager as of March 1st, 2021. Oversees daily field & data activities and manages the 6 CRMS & SWAMP Water Quality Field Offices. Provides day-to-day reporting on operations & financials to upper management while maintaining and cultivating a strong client relationship. Estimates, manages and monitors multiple task order budgets. Manages the complexities of the CES, LLC Joint Venture.</p> </div> <div style="width: 45%;"> <p>Golden Triangle Marsh Creation Project Orleans Parish, LA Provided project management and design phase services for the Golden Triangle Marsh Creation Project (PO-163). CPRA is implementing this project through the Resources and Ecosystems Sustainability, Tourist Opportunities, and Revived Economies of the Gulf Coast States Act (RESTORE Act) as well as NRDA. Mr. Bruhl's tasks included project management; project initiation and planning, permit development; and engineering and design. Mr. Bruhl will provide project management, engineering team support during the construction phase.</p> <p>Grand Isle/Elmer's Island Continued Oil Monitoring - Grande Isle, LA Mr. Bruhl was responsible for the oversight of field crews monitoring efforts on the beaches of Jefferson Parish, managing resources, logistics and financials, handling and submitting confidential data collected, and invoice generation & submittals.</p> </div> </div>

TEC Professional Services Questionnaire



Other experience and qualifications relevant to the proposed Project (continued): *Cody A. Bruhl, CAPM*

CPPRA Program Management

Baton Rouge, Louisiana

As an imbedded project manager for CPRA, Mr. Bruhl worked alongside a team of three project managers that provided program and project management support for projects funded by the Coastal Wetlands Planning, Protection, and Restoration Act (CWPPRA). Primary duties included Acting as extension of staff for CPRA and perform project management duties for CWPPRA funded projects that are in Engineering and Design Phase (Phase I) or Approved for Construction Phase (Phase II). Also, setting up and managing task orders with third party engineering and consulting services firms on behalf of CPRA, assisted CPRA with refinement of project budget and expense tracking mechanisms, interacted with landowners, local governments, districts, state agencies and various other stakeholders to negotiate competing interests and consolidate mutual interests, oversaw preparation of presentations and materials for evaluation by the CWPPRA community, managed the development of state and federal permit applications and comment responses, participated in the development of construction bid packages and evaluation of proposals, and closed out projects, financially and logistically, and handover to CPRA regional offices for monitoring and operations and maintenance.

TEC Professional Services Questionnaire



KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Charlotte Liner	
Project Assignment	
Permit Coordinator	
Name of Firm with which associated:	
Aptim Environmental & Infrastructure LLC	
Year's Experience with this Firm	
24	
Education: Degree(s)/Year/Specialization	
General Studies	
Active Registration: Year first registered/discipline:	
N/A	
Other experience and qualifications relevant to the proposed Project:	
<p>Mrs. Liner has over 28 years of experience in the field of regulatory compliance permitting, surveying, environmental issues, and general engineering. She has worked for surveying/ engineering firms where she permitted regulatory activities within southeast Louisiana for state governmental agencies as well as local government and various private industrial and commercial companies. Ms. Liner's work has included Section 10/404 permitting, numerous Phase 1 Site Assessments, wetland site visits, restoration project development, mitigation plan development, DEQ stormwater permit compliance, NPDES permit compliance, and drafting and technical assistance on a multitude of environmental projects including Environmental Impact Statements, Environmental Assessments, Land Use History, and HTRW Investigations. Ms. Liner is capable of using the following software programs: AutoCAD, ArcGIS, Microsoft Word, Excel, PowerPoint, Access, Adobe Professional, and SharePoint Designer.</p> <p><u>Employment History:</u></p> <ul style="list-style-type: none"> • Aptim Environmental & Infrastructure LLC, LA, <i>Scientist/Admin Assisstant (2000-to date)</i> 	<p><u>Project Experience:</u></p> <p>Morganza to the Gulf, Terrebonne Interim Flood Risk Reduction Project (TIFRRP) Terrebonne Parish, LA The project activity consists of acquiring all the necessary regulatory permits to construct and maintain various reaches and structures of the Morganza to the Gulf Levee System for the Terrebonne Levee & Conservation District. This includes permitting of the flood gates and other structures, as well as earthen Levee alignments.</p> <p>Upper Barataria Risk Reduction System Permitting Lafourche and St. Charles Parish, LA The project activity consists of acquiring all the necessary regulatory permits to construct and maintain various reaches and structures of the Upper Barataria Risk Reduction System. This system includes modification of existing levees and construction of new levees and flood control structures.</p>

Other experience and qualifications relevant to the proposed Project (continued):

Charlotte Liner

**Ward 7 Levee System Permitting & Compliance
Chauvin, LA**

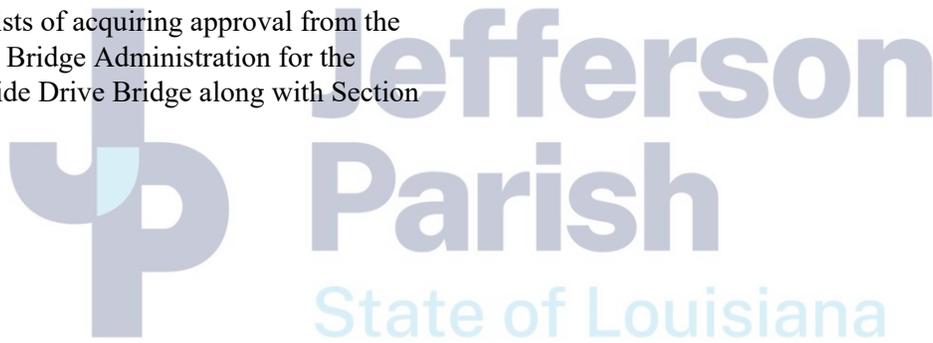
The project activity consists of permitting several phases of the Ward 7 Levee System from Houma to Chauvin, Louisiana. This included acquiring all the necessary Section 10-404 permits to construct, upgrade, and maintain various reaches, pump stations, and water control structures along the alignment.

**Bayou Teche Flood Protection System, Baldwin
St. Mary Parish, LA**

The project consists of Section 10-404 permitting for a flood control structure and connecting levees on Bayou Teche near Baldwin, Louisiana.

**Bayou Drive Bridge
Houma, LA**

This project consists of acquiring approval from the U.S. Coast Guard Bridge Administration for the proposed Bayou Drive Bridge along with Section 10-404 permits.



TEC Professional Services Questionnaire



KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Drew Dyas, P.E., Mechanical Engineer

Project Assignment

Mechanical Engineer

Name of Firm with which associated:

Aptim Environmental & Infrastructure, LLC

Year's Experience with this Firm

33

Education: Degree(s)/Year/Specialization

B.S./1989/Mechanical Engineering

Active Registration: Year first registered/discipline:

1989/Mechanical Engineering/LA License No. 40494

Other experience and qualifications relevant to the proposed Project:

Drew Dyas, PE, has over 30 years of engineering experience in semi- and fully-automated machinery and controls on many scales ranging from commercial aircraft cockpit instrumentation to production machinery and integrated controls for discrete manufacturing - electronics packaging, plastics molding, automotive, and major home appliance, chemical processing, as well as marine seaport, mining, and foundry operations. Mr. Dyas is adept at producing computer simulations of machine and control system physical behavior.

Employment History:

- Aptim Environmental & Infrastructure, LLC, LA, *Mechanical Engineer (1989-to date)*

Project Experience:

Houma Navigational Canal Lock Complex Houma, LA Coordinating with Houma and Baton Rouge offices, Mr. Dyas is designing a diesel skid powered, water-based ballasting and hydraulic actuation system for a 147-foot long sinkable/floatable swinging flood control gate.

Swing Gate Mechanical Design South LaFourche

Levee District Grand Bayou Flood Control Structure (near Houma, Louisiana) Coordinating with Houma and Baton Rouge offices, Mr. Dyas is designing a diesel skid powered, water-based ballasting and hydraulic actuation system for a 147-foot long sinkable/floatable swinging flood control gate.

Metalna Bucket-Type Ship Unloader Boom Hinge Replacement, McDuffie Coal Terminal, Alabama State Port Authority Mobile, AL Long-defunct (since 1996) crane manufacturer had instructed an expensive boom hinge replacement method. Mr. Dyas proposed and executed inexpensive alternative, designing required tooling, with supporting calculations and documentation, and oversaw fabrication and bearing replacement process, confirming suggested cost savings.

Barge Haul System, Pinto Island Steel Slab Terminal, Mobile, AL Mr. Dyas designed and cost estimated mule, track, and integrated controls for subject system, a critical part of a new advanced facility for transferring 25 MT steel slabs from ships to river barges. System has 3 semi-automatic mules operating on a common 1000' track alongside a barge slip and beneath 3 gantry quay cranes that control spotting of barges coupled to the mules.

TEC Professional Services Questionnaire



KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	Scott S. Davis, PE, LEED AP
Project Assignment	Electrical Engineer
Name of Firm with which associated:	Aptim Environmental & Infrastructure, LLC
Year's Experience with this Firm	25
Education: Degree(s)/Year/Specialization	Bachelor of Science/1992/Electrical Engineering
Active Registration: Year first registered/discipline:	Professional Engineer/Electrical/LA (No.33042)
Other experience and qualifications relevant to the proposed Project:	
<p>Scott Davis is a Senior Electrical Engineer with 27 years of experience in all phases of the engineering and design of electrical power, instrumentation, and controls systems for the infrastructure, environmental remediation, textile, and petrochemical industries as well as for various sites for the U.S. Department of Energy (DOE) and the Tennessee Valley Authority (TVA). He has held positions of increasing responsibility, from Associate Electrical Engineer in a power plant construction organization through Lead Electrical Engineer performing design and at APTIM. He presently supervises an electrical/instrumentation group that includes both engineers and designers. He has previously supervised the work of instrumentation technicians and oversaw the work of electricians who have been assigned to him for the completion of his projects.</p> <p><u>Project Experience:</u></p> <p>Inner Harbor Navigation Canal Design-Build New Orleans, LA Electrical Engineer providing engineering design and construction support services for the electrical power and control systems for the Inner Harbor Navigation Canal (IHNC). Performed site walk-downs, developed design packages,</p>	<p>performed site engineering submittal reviews, attended factory witness tests, and issued design changes. Completed the preliminary electrical distribution design and provided design reviews and technical input on various portions of the project including a full range of industrial power distribution and controls, including 480V power distribution, panel boards, redundant generators, starters, control panels, control schematics, motor control centers, and SCADA system. Coordinated and reviewed gate navigation aids and instrumentation with the Coast Guard and USACE.</p> <p>Waste Isolation Pilot Plant (WIPP) New Filter Building Carlsbad, NM Performed electrical and instrumentation & controls systems design. Coordinated multiple engineers and designers to perform a complete electrical and instrumentation package for a ventilation system that includes medium voltage drives on large motors, double-ended switchgear with redundant feeds, and multiple building communications systems, and separate critical function and general plant PLC systems. Produced design documentation (drawings, specifications, procurement specifications, calculations, cable schedules, 3D BIM model).</p>

TEC Professional Services Questionnaire



KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	Louis A. Savoye, Jr., A.I.A, Architect
Project Assignment	Project Architect
Name of Firm with which associated:	Aptim Environmental & Infrastructure, LLC
Year's Experience with this Firm	9
Education: Degree(s)/Year/Specialization	B.A./1967/Architecture
Active Registration: Year first registered/discipline:	1969/Architecture/LA License No. 1392
Other experience and qualifications relevant to the proposed Project:	
<p>Mr. Savoye's Professional experience includes over 40 years of architectural planning and design, architectural building project management, design proposal preparation and governmental management. He has extensive experience in all aspects of the profession from production to marketing. As a Managing Architect, he has coordinated overall office operations, project budgeting, project scheduling, and inter-office personnel management, liaison and communications.</p> <p>Employment History:</p> <ul style="list-style-type: none"> • Aptim Environmental & Infrastructure, Inc., LA, <i>Project Architect (2015-present)</i> • Jefferson Parish, <i>Deputy Chief Administrative Assistant Director (1994-2003)</i> • Design Consortium, Ltd., <i>Principal/Managing Architect (1989-1994)</i> • Grimball/Gorrondona/Savoye-Architects/Engineers/Planners, Inc. <i>(1969-1987)</i> <p>While working with APTIM Mr. Savoye has taken on the role of principal and design architect on the following projects:</p>	<p>Westwego Emergency Preparedness Building, Westwego, Louisiana. The elevated facility includes temporary living quarters and a general meeting area, designed to withstand 154 mph winds.</p> <p>Westwego Fire Station No. 91, Westwego, Louisiana. The facility includes living quarters, office space, and apparatus storage of 8 emergency vehicles.</p> <p>Additionally, Mr. Savoye has served in the capacity as architect of record, design architect, principal-in-charge, project manager, project architect, or construction administrator on the following projects:</p> <ul style="list-style-type: none"> • Jefferson Parish Classroom buildings, Phase I and II, Jefferson, LA • U.S. Coast Guard, Planned community, Mew Orleans, LA • Golf Course Feasibility Study, Jefferson Parish, LA • Bayou Segnette State Park, Jefferson Parish, LA • Bayou Segnette Fire Station, Westwego, LA

TEC Professional Services Questionnaire



KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	Brittany Bryant, EI
Project Assignment	Engineering Intern
Name of Firm with which associated:	Aptim Environmental & Infrastructure, LLC
Year's Experience with this Firm	7
Education: Degree(s)/Year/Specialization	B.S./2013/Civil Engineering
Active Registration: Year first registered/discipline:	2015/Engineering in Training/LA No. 32419
Other experience and qualifications relevant to the proposed Project:	
<p>Experience includes assisting with H&H Analysis reports for Bossier and Webster Parish , preparation of LADOTD Feasibility Study and Environmental Assessment Reports, and Tier 1 Analysis for Implementation Study Alignment. Responsibilities also include assisting project managers verify project documentation, preparing construction cost estimates and generating plans and specifications.</p> <p><u>Employment History:</u></p> <ul style="list-style-type: none"> • Aptim Environmental & Infrastructure, LLC, LA, <i>Structural/Civil Engineer (2017-to date)</i> <p><u>Project Experience:</u></p> <p>LA 447 Corridor Study, Louisiana DOTD, Livingston Parish, Louisiana, APTIM was contracted to complete a Line and Grade Study, Environmental Evaluation with Environmental Assessment (EA) and Conceptual Design for the LA 447 Corridor from I-12 to Joe May Road in Livingston Parish, LA. Mrs. Bryant assisted with the production of the final plan set using Microstation and the preparation and submission of the Stage 1 Environmental Assessment Report</p>	<p>I-49 South (Raceland to Westbank Expressway), Louisiana DOTD, Jefferson, Lafourche, and St Charles Parishes, Louisiana Line and Grade Study and a Supplemental Environmental Impact Statement beginning at the interchange of US 90 with LA 1/LA 308 Interchange in Lafourche Parish, and extending eastward to the Westbank Expressway in Jefferson Parish. Mrs. Bryant assisted with Tier 1 Analysis including 39 interchange forms at a total of 13 sites to determine the area of impact and the construction cost for each interchange form.</p> <p>Webster Parish Roadway, Bridge and Culvert Engineering, Damage Assessment and Reconstruction Services, Webster Parish, Webster Parish APTIM is providing engineering services, post disaster damage assessments, and reconstruction services. The services provided include damage assessments, planning, engineering, and construction management services for over 200 sites which consist of roadways, bridges and culverts. Required improvements include bridge repairs, roadway reconstruction, patching and overlays, construction of retainage walls, MSE walls as well as new drainage structures.</p>

TEC Professional Services Questionnaire



Other experience and qualifications relevant to the proposed Project (continued):

Brittany Bryant, EI.

Continued....

Mrs. Bryant assisted with the review of post disaster damage assessments and cost estimates for road reconstruction services for sites consisting of roadways, bridges, and culverts. She was also responsible for the analysis and completion of H&H studies for various sites

Parish Roadway, Bridge and Culvert Engineering, Damage Assessment and Reconstruction Services, Bossier Parish APTIM provided engineering services, post disaster damage assessments, and reconstruction services. The services provided include damage, assessments, planning, engineering, and construction management services for approximately 150 sites which consist of roadways, bridges and culverts. Required improvements include bridge replacement and repairs, roadway reconstruction, patching and overlays, construction of retaining walls, MSE walls as well as new drainage structures. Mrs. Bryant assisted with the review of post disaster damage assessments and cost estimates for road reconstruction services for sites consisting of roadways, bridges, and culverts. She was also responsible for the analysis and completion of H&H studies for various sites.

Patterson Bayou Vista Road Rehab, St Mary Parish, St Mary Parish, Louisiana APTIM was contracted to provide basic services for engineering/design of the 2018 Patterson and Bayou Vista Road Improvement Project. Mrs. Bryant completed preliminary cost estimates for roads requiring full reconstruction, patch and overlay, or patch repair. Mrs. Bryant completed preliminary cost estimates for roads requiring full reconstruction, patch and overlay, or patch repair.

LA 384 Stage 0 Feasibility Study, Louisiana DOTD, Calcasieu Parish

APTIM examined the feasibility of making improvements to LA 384 between Big Lake Road and McNeese Street (LA 3186) in Calcasieu Parish, Lake Charles, Louisiana. The study examined two proposed alternatives for the LA 384 corridor in addition to a No Build option. Mrs. Bryant assisted with preparing project design plans with the use of MicroStation and the preparation, submission of the Final Stage 0 Feasibility Report, and monthly project invoicing

LA 328 Stage 0 Feasibility Study, Louisiana DOTD, St Martin Parish

APTIM examined the feasibility of making improvements to LA 328 between Latiolais Drive and Julie Street and the adjacent I-10 interchanges in St. Martin Parish, Breaux Bridge, LA. The study examines two proposed alternatives for the LA 328 corridor in addition to a No-Build option. Mrs. Bryant assisted with preparing project conceptual design plans with the use of MicroStation, preparation and submission of the Final Stage 0 Feasibility Report, and monthly project invoicing.

St Charles Parish Power Station, Entergy Louisiana LLC, Montz, Louisiana

APTIM will prepared a weir design to be associated with Outfall 003 in the proposed location identified by Entergy personnel and provide a design for a limestone access road and turnaround ability at the weir location suitable for a standard vehicle/ truck. Mrs. Bryant designed the proposed access road and turnaround for weir access. Brittany also managed the production of the plan set.

TEC Professional Services Questionnaire



KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	Scott P. Landry, CAD Technician
Project Assignment	CAD Services
Name of Firm with which associated:	Aptim Environmental & Infrastructure, LLC
Year's Experience with this Firm	12
Education: Degree(s)/Year/Specialization	Associates Degree/Drafting and Design Technology
Active Registration: Year first registered/discipline:	N/A
Other experience and qualifications relevant to the proposed Project:	
<p>Mr. Landry has provided significant engineering and architectural design for various drainage and sewer relocation projects, as well as civil, mechanical, and architectural projects. He has co-designed and drafted many flood protection projects. His work on various architectural projects includes the restoration of several churches, restaurants and schools post Katrina.</p> <p><u>Employment History:</u></p> <ul style="list-style-type: none"> • Aptim Environmental & Infrastructure, LLC, LA, I&C Design Tech (2012-to date) <p>Projects in which Mr. Landry has been involved in the design and development of the project plans include:</p> <ul style="list-style-type: none"> • Clearview Parkway / Earhart Expressway Interchange & St. Peter's Ditch Drainage Improvements (<i>Jefferson Parish, LA</i>) • North Galvez Street Reconstruction (Elysian Fields to Almonaster) (<i>New Orleans, LA</i>) • Drainage Improvements in the Elise Avenue/ Camphor Street Area (<i>Jefferson Parish, LA</i>) 	<ul style="list-style-type: none"> • Drainage Improvements to Upper Kraak Pump Station (<i>Jefferson Parish, LA</i>) • Improvements to Westwego Pump Station No. 1 (<i>Westwego, LA</i>) • Maplewood/Paillet Drainage Improvements (<i>Jefferson Parish, LA</i>) • Repairs for FEMA-Eligible Paving: St. Anthony Quad 2 (<i>New Orleans, LA</i>) • Rosethorn Basin Tidal Flood Protection Project (<i>Lafitte, LA</i>) • Lafitte Area Levee Repair (<i>Lafitte, LA</i>) • Drainage Improvements to Mounes St. (Phase 1 Dickory Ave. to Crochet Ditch) (<i>Jefferson Parish, LA</i>) • Improvements to David Dr. & York St. Sewer Lift Station D6-9 (<i>Jefferson Parish, LA</i>) • Improvements to Sewer Lift Station N-12-1 Sewerage Capital improvement Program (<i>Jefferson Parish, LA</i>) • Goose Bayou Basin Drainage Pump Station No. 2 (<i>Jefferson Parish, LA</i>) • Fire Station No. 91 Westwego, La. (<i>Jefferson Parish, LA</i>) • Emergency Preparedness Building Westwego, La. (<i>Jefferson Parish, LA</i>)

TEC Professional Services Questionnaire



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

PROJECT NO. 1

Project Name, Location and Owner's Contact Information	Nature of Firm's Responsibility:
<p style="text-align: center;">West Barataria Marsh Creation Corridor and Marsh Restoration Projects</p> <p style="text-align: center;"><i>Barataria Basin, LA</i></p> <p style="text-align: center;">Jefferson Parish Department of Ecosystem & Coastal Management 1221 Elmwood Park Blvd Suite 310 Jefferson, LA 70123</p>	

The long-distance transport of the nutrient rich sediment dredged from the Mississippi River is the most effective way to restore wetland habitat in strategic areas of the central Barataria Basin. To deliver sediment, a linear, earthen landform will be constructed extend the existing Phase 1 corridor to serve as a corridor for pipeline and booster pump installation, from which lateral lines will be able to strategically target areas for marsh creation at various locations throughout the basin.

The goal of the overall project is to extend the existing corridor an additional 6.5 miles from the Barataria Waterway west towards Lafourche Parish (referred as WBA-01), while restoring selected areas back to a healthy marsh environment (areas referred as WBA-02 and WBA-03). The benefits gained from the project include marsh creation of 204.7 acres in WBA-01, 519.4 acres in WBA-02, and 415.5 acres in WBA-03. The Engineer's Opinions of Probable Construction Cost for each segment of the project is estimated as \$41.5M for WBA-01, \$95.4M for WBA-02, and \$83.9M for WBA-03. The project will be constructed in phases as funding sources are identified and allocated toward the project.

Project responsibilities include:

- Provide Professional Engineering services to develop plans and specifications for construction.
- Prepare a Joint Permit Application and develop schematic permit drawings to support environmental benefits obtained by the project.
- Attend regulatory agency meetings with the U.S. Army Corps of Engineers (USACE) and Louisiana Office of Coastal Management (OCM) throughout the permitting process.
- Track permit progress and provide regular updates to the Department Director.
- Coordinate Geotechnical Surveys and Investigations to support Engineering design of the project.
- Assist with public bid procedures and recommend award to lowest bidder in accordance with state law.
- Provide Construction Administration services to ensure project is constructed according to plans and specifications.
- Provide Resident Inspection services to document all field activities during construction.

As of July 2024, APTIM has submitted a complete Coastal Use Permit application and has addressed all regulatory agency concerns to construct the West Barataria Marsh Creation Corridor and Marsh Restoration Projects. Jefferson Parish is identifying funding sources for construction of the project.

Completion Date (Actual or Estimated):	Estimated Cost:	
	Entire Project	Work for which Firm was Responsible
Ongoing	\$239.4M	\$18.6M

TEC Professional Services Questionnaire



PROJECT NO. 2

<p align="center">Project Name, Location and Owner's Contact Information</p>	<p align="center">Nature of Firm's Responsibility:</p>
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Lower Lafitte Shoreline Stabilization at Bayou Rigolettes

Jefferson Parish, LA

Department of Environmental Affairs
 834 S Clearview parkway
 Harahan, LA 70123



The project consists of approximately 10,600 linear feet of foreshore rock dike to protect the west bank of the Barataria Waterway and adjacent interior marshes from Bayou Rigolettes south to the existing CWPPRA shoreline protection project. Additional shoreline protection was constructed on the north shoreline of Bayou Rigolettes at Bayou Barataria to eliminate shoreline erosion and protect the Grand Isle water storage tank which is located on the peninsula.

This project was completed under Louisiana's Coastal Impact Assistance Program (CIAP).



Specific project tasks include:

- Grant submittal, annual updates, and close-out reports
- Regulatory Agency Coordination
- Permit application and coordination
- Engineering Design
- Construction Administration
- Project Resident Inspection

<p align="center">Completion Date (Actual or Estimated):</p>	<p align="center">Estimated Cost:</p>	
	<p align="center">Entire Project</p>	<p align="center">Work for which Firm was Responsible</p>
<p align="center">2016</p>	<p align="center">\$8.4M</p>	<p align="center">\$0.490M</p>

TEC Professional Services Questionnaire



PROJECT NO. 3

<p align="center">Project Name, Location and Owner's Contact Information</p>	<p align="center">Nature of Firm's Responsibility:</p>
<p>New Orleans Landbridge Shoreline Stabilization & Marsh Creation PO-169) <i>Orleans Parish, LA</i> Coastal Protection and Restoration Authority (CPRA) 450 Laurel Street Suite 1200 Baton Rouge, LA 70801</p>	

The New Orleans Landbridge Shoreline Stabilization and Marsh Creation project's goal is to restore and reinforce marsh habitat along the eastern shore of Lake Pontchartrain. The project will incorporate marsh restoration and shoreline stabilization. Borrow material will be dredged from areas within Lake St. Catherine and Lake Pontchartrain to create 169 acres and to nourish 109 acres of brackish marsh. Containment dikes will be constructed around four marsh creation areas to hold sediments during dredging. Banklines will also be reinforced by creating or extending earthen berms to increase protection from wind waves. After constructing the marsh areas, vegetative plantings are planned the marsh areas and shoreline protection berms.

Teamed with Providence Engineering and contracted to the Coastal Protection and Restoration Authority (CPRA), S&ME completed planning, and managing drilling and soil sampling at 8 locations in the marsh creation areas with depths varying from 30 to 50 feet below existing mudline and at 7 locations in the proposed borrow areas to a depth of 20 feet below existing mudline. In addition to the soil borings, S&ME completed cone penetration test (CPT) soundings at 20 locations in the marsh creation areas using S&ME's VERTEK CPT cone pushed using GeoProbe direct push equipment and, rods, and S&ME owned data collection software. S&ME worked closely with APS Design and Testing, L.L.C. (APS) to complete specialized testing for the project and performed thorough QA/QC of the laboratory testing results provided by APS. For quality control, S&ME setup the low-stress consolidation test in their Cleveland, Ohio office and re-ran the test completed by APS. Cost for the additional low-stress consolidation test was not invoiced to CPRA and is considered as part of S&ME's QA/QC process for this project. A Geotechnical Data Report was submitted to CPRA in October 2017. As this project is a collaborative effort between S&ME and CPRA, traditional timeline for Geotechnical Engineering Report could not be followed as multiple alternatives were checked being checked by S&ME upon CPRA's request. Based on wave analyses completed by Mott MacDonald, innovative alternatives were discussed with CPRA to better address the concerns. The Geotechnical Engineering Report deadline for the project was set for May 4th and S&ME is on schedule to submit the report.

<p align="center">Completion Date (Actual or Estimated):</p>	<p align="center">Estimated Cost:</p>	
	<p align="center">Entire Project</p>	<p align="center">Work for which Firm was Responsible</p>
<p align="center">2015</p>	<p align="center">\$14M</p>	<p align="center">\$0.248M</p>

TEC Professional Services Questionnaire



PROJECT NO. 4

<p>Project Name, Location and Owner's Contact Information</p>	<p>Nature of Firm's Responsibility:</p>
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Chenier Ronquille Barrier Island Restoration (BA-76)

Plaquemines Parish, LA

National Oceanic and Atmospheric Restoration Center

5401 Lakeshore Dr
New Orleans, LA 70126



Chenier Ronquille is located immediately east of Grand Terre in Plaquemines Parish and has undergone rapid shoreline retreat and disintegration. APTIM designed the beach/dune and back-barrier marsh restoration project for CPRA under the Coastal Wetland Planning, Protection, and Restoration Act (CWPPRA). Our firm performed coastal engineering analyses including shoreline changes and volumetric changes due to longshore transport, cross-shore transport, overwash, and relative sea level rise. APTIM calculated relative sea level rise rates based on the latest NOAA measurements of subsidence along the Louisiana coast. APTIM also developed acreage values for a Wetland Value Assessment for various target years following construction using the Barrier Island Community Model.

A marsh settlement analysis provided time settlement curves, which incorporate consolidation of the underlying soils and consolidation of the marsh fill material itself. The analysis highlighted the marsh elevations required at construction to maximize the period during which the marsh is in the intertidal zone. Gulf of Mexico borrow sources were targeted, and geophysical surveys were collected to facilitate the development of several borrow areas. APTIM performed construction oversight for NOAA when the \$28M project was built. We evaluated performance post-construction. An analysis of vegetative species was performed, and we oversaw the vegetative plantings installation contract for NOAA in March 2018. Quality control was performed during the installation process. UAV monitoring was also performed to assess project performance relative to sand movement and marsh restoration success. Major tasks within this project included:

- Review of existing data and analysis of coastal processes
- Collection of additional geophysical, geotechnical, bathymetric, and magnetometer data
- Development of project alternatives and modeling of project future performance
- Development of Gulf of Mexico borrow areas
- Analysis of offshore borrow area impacts with numerical wave modeling
- Final engineering and design of preferred alternative
- Development of plans and specifications and detailed final construction cost estimate
- State and Federal permit application support
- Construction administration and oversight
- Vegetative plantings design support and installation oversight.

<p>Completion Date (Actual or Estimated):</p>	<p>Estimated Cost:</p>	
	<p>Entire Project</p>	<p>Work for which Firm was Responsible</p>
<p>2018</p>	<p>\$28M</p>	<p>\$0.696M</p>

TEC Professional Services Questionnaire



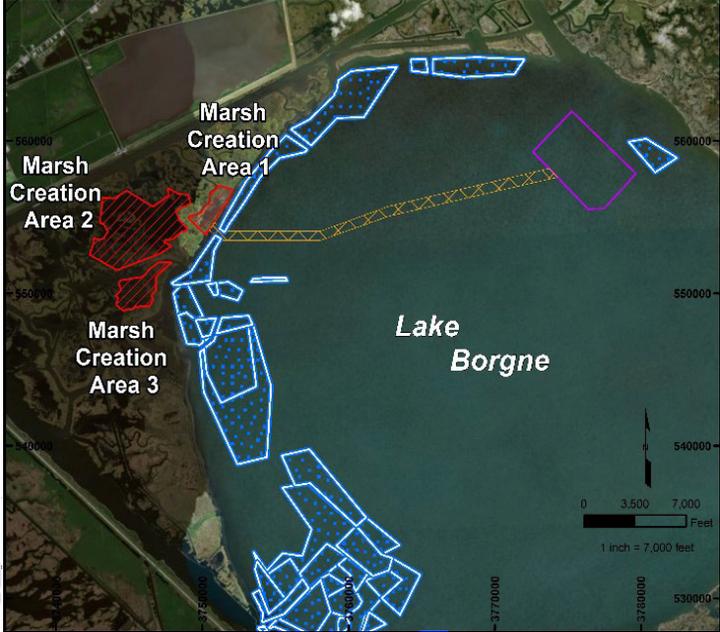
PROJECT NO. 5

Project Name, Location and Owner's Contact Information	Nature of Firm's Responsibility:	
<p style="text-align: center;">Shell Island East/West Barrier Island Restoration (BA-110/1111)</p> <p style="text-align: center;"><i>Plaquemines Parish, LA</i></p> <p style="text-align: center;">Coastal Protection and Restoration Authority (CPRA) 450 Laurel Street Suite 1200 Baton Rouge, LA 70801</p>		
<p>APTIM developed a feasibility report for the Shell Island portion of the Barataria Basin Barrier Island Shoreline Restoration Study. APTIM performed coastal engineering analyses including shoreline changes and volumetric changes due to longshore transport, cross-shore transport, overwash, and relative sea level rise. We calculated updated relative sea level rise rates based on the latest NOAA measurements of subsidence along the Louisiana coast. We performed an even-odd analysis to investigate the effect of the jetties on shoreline retreat. APTIM developed acreage values for a Wetland Value Assessment for various target years following construction using the Barrier Island Community Model. A without project assessment was also made. We used the cross-shore model (SBEACH) to predict the cross-shore response of the with- and without-project conditions at various target years.</p> <p>A marsh settlement analysis provided time settlement curves, which incorporate consolidation of the underlying soils and consolidation of the marsh fill material itself. The analysis highlighted the marsh elevations required at construction to maximize the period during which the marsh is in the intertidal zone. The Mississippi River was targeted as a borrow source, and geophysical surveys and vibracores were collected to facilitate the development of several borrow areas. A sediment pipeline conveyance corridor was developed between the Mississippi River and Shell Island, including levee and highway crossings. APTIM also performed construction oversight as the \$43 million project was implemented.</p> <p>Major tasks within this project included:</p> <ul style="list-style-type: none"> • Review of existing data and analysis of coastal processes • Collection of additional geophysical, geotechnical, bathymetric, and magnetometer data • Development of project alternatives and modeling of project future performance • Development of Mississippi River borrow areas • Analysis of both offshore and Mississippi River borrow area impacts with numerical wave modeling, including current and infilling rate modeling in the Mississippi River • Final engineering and design of preferred alternative • Development of plans and specifications and detailed final construction cost estimate • Construction administration and oversight • State and Federal permit application and support 		
Completion Date (Actual or Estimated):	Estimated Cost:	
	Entire Project	Work for which Firm was Responsible
2017	\$120M	\$3.063M

TEC Professional Services Questionnaire



PROJECT NO. 6

<p>Project Name, Location and Owner's Contact Information</p> <p>Golden Triangle Marsh Creation Project (PO-163)</p> <p><i>Lake Borgne, LA</i></p> <p>Coastal Protection and Restoration Authority (CPRA) 450 Laurel Street Suite 1501 Baton Rouge, LA 70801</p>	<p>Nature of Firm's Responsibility:</p> 					
<p>The Golden Triangle wetlands are an important natural buffer that is one of the multiple lines of defense protecting vulnerable communities in and around the city of New Orleans from storm surge. The goal of the Golden Triangle Marsh Creation project is to identify a borrow area containing 6-9 million cubic yards of suitable marsh fill material and design a project to create new wetland habitat, restore degraded marsh, and reduce wave erosion outside of the Inner Harbor Navigation Canal surge barrier.</p> <p>In order to identify a borrow area with appropriate fill material and avoid potential biological impacts, APTIM surveyed Lake Borgne using a variety of remote sensing and in-situ investigations. This investigation was done not only to identify marsh fill but to ensure that natural resources and sensitive habitat are avoided during borrow area design. As data was collected in Lake Borgne for the SWAMP within the same timeframe, APTIM was able to combine efforts to reduce field costs and develop an expanded dataset for each project.</p> <p>Oyster habitat identification is one of the key components of this project. Oyster reefs are prevalent throughout Lakes Pontchartrain and Borgne. This project includes a review of existing data on oyster ecology and habitat in the area followed by a comprehensive investigation using remote sensing techniques to characterize the benthic habitat.</p> <p>APTIM collected and interpreted sidescan sonar data for bottom type as well as areas with potential oysters and SAV. After the sidescan analysis is complete, our divers will conduct ground truthing dives to verify the presence or absence of resources. Ultimately, APTIM will identify and map historic and current locations of oyster reefs and submerged aquatic vegetation to aid in the permitting and development of this restoration project. The project will create over 600 acres of marsh habitat. APTIM developed a project layout utilizing existing geomorphic features to efficiently form containment to facilitate construction of the marsh, focusing on the most vulnerable areas. A sediment pipeline corridor will be designed to facilitate delivery of dredged sediment. Environmental assessment documentation as well as construction plans and specifications are in development.</p>						
<p>Completion Date (Actual or Estimated):</p> <p>2019</p>	<p>Estimated Cost:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center; vertical-align: middle;">Entire Project</td> <td style="width: 33%; text-align: center; vertical-align: middle;">Work for which Firm was Responsible</td> </tr> <tr> <td style="text-align: center; vertical-align: middle;">\$50M</td> <td style="text-align: center; vertical-align: middle;">\$2.384M</td> </tr> </table>		Entire Project	Work for which Firm was Responsible	\$50M	\$2.384M
Entire Project	Work for which Firm was Responsible					
\$50M	\$2.384M					

TEC Professional Services Questionnaire



PROJECT NO. 7		
Project Name, Location and Owner's Contact Information	Nature of Firm's Responsibility:	
<p style="text-align: center;">Phase 1 Environmental Site Assessments</p> <p style="text-align: center;"><i>New Orleans Metropolitan Area, LA</i></p>	<p>Project Name: Phase 1 ESA for 3839 River Road Project Owner: Jefferson Parish Dept of Environmental Affairs Point of Contact Name: Marnie Winter Point of Contact Number: 504.736.6440 Project Description: APTIM conducted a Phase I Environmental Site Assessment (ESA) for as site located at 3839 River Road, which is a portion of Rosedale Plantation Tract 4, Lot C. The Phase 1 ESA was conducted in accordance with American Society for Testing and Materials (ASTM) Standard E1527-05, for the purpose of identifying recognized environmental conditions, including the presence or likely presence of hazardous substances or petroleum products on the property under conditions that indicate an existing release, past release or threatened release onto the property, structures, ground, groundwater, or surface water of the property.</p> <p>Project Name: Phase 1 ESA for N.O. Lakefront Airport Project Owner: Orleans Levee District Point of Contact Name: Wilma Heaton Point of Contact Number: 504.286.3100 Project Description: APTIM was retained by the Orleans Levee District (OLD) to conduct a Phase I ESA of the property and facilities located at the New Orleans Lakefront Airport (NOLA), 6001 Stars and Stripes Boulevard. The property is located within the City of New Orleans, in Orleans Parish, Louisiana.</p> <p>Project Name: Phase 1 ESA for 175 Avenue A Project Owner: City of Westwego Point of Contact Name: Georgia Peoples Point of Contact Number: 504.341.3424 Project Description: APTIM was retained by the City of Westwego to conduct a Phase I ESA of the property located at 175 Avenue A, the Former Gulf States Asphalt site, in Westwego, LA. The objective of this ESA has been to identify, to the extent feasible, recognized environmental conditions (RECs), as defined by ASTM E1527-13, and conditions indicative of releases or threatened releases of hazardous substances as defined in 40 CFR Section 312.</p>	
	Estimated Cost:	
Completion Date (Actual or Estimated):	Entire Project	Work for which Firm was Responsible
2003-Present	\$Varies	\$Varies

TEC Professional Services Questionnaire



PROJECT NO. 9		
Project Name, Location and Owner's Contact Information	Nature of Firm's Responsibility:	
<p style="text-align: center;">EPA 104(k) Brownfields Grants Technical Assistance</p> <p style="text-align: center;"><i>Jefferson, LA</i></p> <p style="text-align: center;">Jefferson Parish Department of Environmental Affairs 834 S. Clearview Parkway Harahan, LA 70123</p>	<p>APTIM provided professional services to assist Jefferson Parish with Technical and Programmatic Services for the 2009 EPA Brownfields Assessment Grants. One grant was for petroleum projects and the other grant was for hazardous substance projects. The technical Assistance included the following:</p> <p>Task 1 – Initiation:</p> <p>Included justification of need to redevelop or reuse, identify and hold meetings with current stakeholders and potential stakeholders</p> <p>Task 2 - Evaluation:</p> <p>Collect/Identify preliminary data, evaluate land use viability factors, evaluate economic viability factors, evaluate environmental risks, and determine applicable laws and regulations.</p> <p>Task 3 - Transaction:</p> <p>Identify potential environmental liability provisions, development of preliminary and pre-closing agreements, and develop financial risk allocation provisions. Identified buyer, owner/seller, and lender objectives.</p> <p>Task 4 - Report Preparation</p>	
	Estimated Cost:	
Completion Date (Actual or Estimated):	Entire Project	Work for which Firm was Responsible
2010	\$.025M	\$.025M

TEC Professional Services Questionnaire



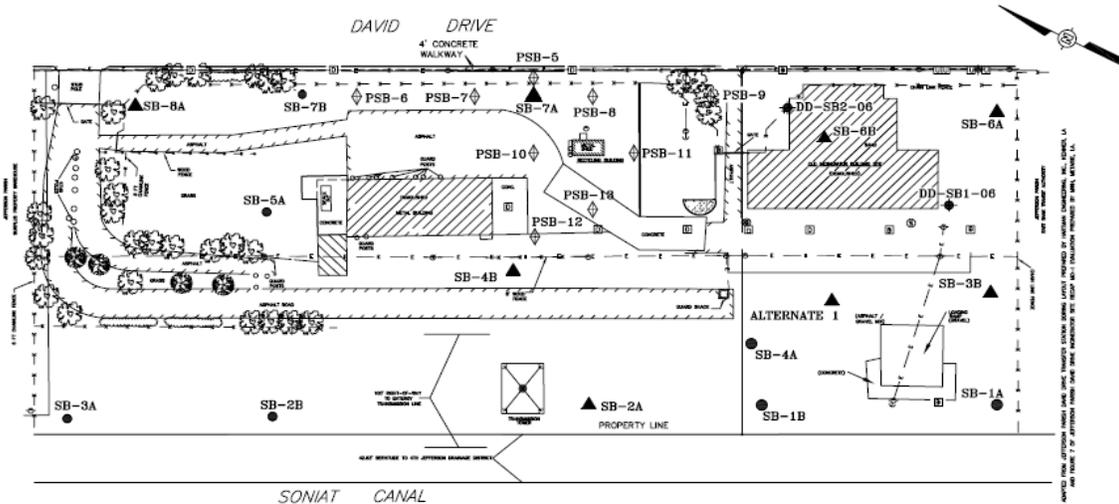
PROJECT NO. 10

<p align="center">Project Name, Location and Owner's Contact Information</p>	<p align="center">Nature of Firm's Responsibility:</p>
<p>David Drive RECAP Assessment</p> <p align="center"><i>Jefferson Parish, LA</i></p> <p>Jefferson Parish Department of Environmental Affairs 834 S. Clearview Parkway Harahan, LA 70123</p>	

APTIM conducted an investigative study pursuant to the Louisiana Department of Environmental Quality (LDEQ) Risk Evaluation/ Corrective Action Program (RECAP) regulations to identify risks associated with chemical constituents of concern (COC) present in the soils of the David Drive Incinerator Site. The study included identifying and delineating COC, determining remedial requirements and developing recommended engineering controls that would satisfy LDEQ remediation requirements and allow re-development of the site.

The project included the following tasks:

- Task 1: Health and Safety Program Preparation
- Task 2: Prepare Comprehensive Site Investigation Work Plan
- Task 3: Borehole Delineation Surveys and Notifications
- Task 4: Report Preparation



<p align="center">Completion Date (Actual or Estimated):</p>	<p align="center">Estimated Cost:</p>	
	<p align="center">Entire Project</p>	<p align="center">Work for which Firm was Responsible</p>
<p align="center">2005</p>	<p align="center">\$.065M</p>	<p align="center">\$.065M</p>

TEC Professional Services Questionnaire



M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary. NONE

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

APTIM is not and never has been involved in any litigation or adversarial proceedings with Jefferson Parish.

TEC Professional Services Questionnaire



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



APTIM is a global provider of integrated maintenance services, environmental engineering and remediation, infrastructure EPC services, program management, and disaster response and recovery for private sector and government customers.

As evidenced by our experience, APTIM is one of the nation's most respected contractors tasked by local, state, and federal governments and commercial clients with the management of complex and mission-critical programs. Through strategic acquisition, APTIM and its acquired companies bring a legacy of more than 100 years of design, engineering, environmental, project and program management, construction management, and emergency response and recovery services. APTIM provides a strong foundation for developing and implementing successful long-term programs for local, state, and federal governments and commercial entities. APTIM's history and experience have cultivated a performance-based culture focused on quality and client satisfaction.

Aptim Environmental & Infrastructure, LLC. (APTIM) is pleased to respond to the request by the Parish of Jefferson for firms interested and qualified to provide coastal engineering consulting services on an "as-needed" basis throughout the Parish.

APTIM is a registered professional engineering firm with offices in Metairie, LA (Jefferson Parish), New Orleans, LA (Orleans Parish), Houma, LA (Terrebonne Parish), and Baton Rouge, LA (East Baton Rouge Parish). Our staff has experience in areas of engineering, field surveying, environmental services, regulatory compliance and construction management. This experience translates into tremendous field knowledge, engineering/geological knowledge, familiarity with Federal and State Governmental regulations, and access to a well-developed resource database.

As a result of our extensive array of knowledge and experience, APTIM is recognized as one of the premiere professional engineering organizations in the State. APTIM has worked with and continues to work for a number of Federal, State, local and private clients.

Aptim Environmental & Infrastructure, LLC will use the approved Jefferson Parish professional services hourly rate for this project.

APTIM has significant experience in preparing plans and specifications for civil, structural, and environmental engineering projects; especially public works projects located in the Louisiana coastal zone. All projects consisted of study and report phase, preliminary design phase, final design phase, and construction management and inspection.

APTIM has completed a number of projects that involved bid document preparation and advertisement for the bid. APTIM has experience in bid acceptance, bid opening, review tabulation and evaluation of bids, bidder selection and project award. Following these processes, contract documents were prepared as per project and client objectives and negotiations were carried out with the selected contractors on prices and other issues.

TEC Professional Services Questionnaire



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

APTIM also has the experience and staff to provide the following services:

Civil/Geotechnical Engineering - APTIM is well versed in all aspects of land use, planning, highway and bridge construction, water control structures, utilities layout, drainage, forced drainage pumping stations, levees, and geotechnical engineering. Our experienced personnel are capable of providing the client with services that begin with conceptual design and culminate with a project on the ground.

Construction Management - APTIM has extensive experience in preparing construction and bid documents, bidding projects and providing construction inspection services for all aspects of construction. We assure our clients of QA/QC for all of their construction work. Our staff has the ability to develop project schedules using state-of-the-art software to monitor costs and to provide construction layout surveys to ensure that the highest quality product is delivered to our clients.

As demonstrated through the key project personnel mentioned in this questionnaire, APTIM has an experienced team of technical experts who are dedicated to the success of any Jefferson Parish Coastal project.



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

Signature: _____

Print Name: Hamid R. Alizadeh, P.E.

Title: Operations Manager

Date: July 16, 2024