

**SOQ No. 22-010
Resolution No. 138812
Engineering Services for**

Sewer

March 25, 2022





March 25, 2022

Re: SOQ NO. 22-010 Routine Engineering Services for Sewer Projects (Resolution No. 138812)

Mott MacDonald
650 Poydras St.
Suite 2550
New Orleans, LA 70130

Dear Members of the Selection Committee,

Thank you for the opportunity to submit our qualifications to the Jefferson Parish Council to provide routine engineering services for your sewage project needs.

Mott MacDonald is highly qualified to provide professional engineering and consulting services for any proposed project. As you will find in our attached statement of qualifications, our team has extensive experience providing professional services for Jefferson Parish, and expertise in providing all types of routine engineering task, including project evaluation, project design, drafting of technical plans, development of technical specifications, and construction administration.

Ms. Elizabeth Guiza, PE will serve as Project Manager as well as Mott MacDonald's point of contact for your projects. Elizabeth has more than 10 years of experience providing engineering services to coastal Louisiana. We understand the importance of providing high-quality deliverables, as well as frequent and effective communication with our clients. Our team is committed to continuing to build upon our existing working relationship with the Parish. Ms. Guiza will be supported by a team of engineers, scientist, and surveyors, to respond to any project that may be assigned.

Jefferson Parish Technical
Evaluation Committee
Parish Clerk
200 Derbigny Street
Suite 6700
Gretna, Louisiana 70053

Mott MacDonald fully understands the challenges facing Jefferson Parish. We are prepared to respond immediately to your needs and ask that you select Mott MacDonald for this most important contract.

Sincerely,

MOTT MACDONALD


Many Heymann, PE
Vice President


Katie Parker, PE
Senior Vice President

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:		
SOQ No. 22-010 Routine Engineering Services for Sewer Projects Resolution No. 138812		
B. Firm Name & Address where Project work will be performed:		
M M MOTT MACDONALD	Mott MacDonald, LLC 650 Poydras Street Suite 2550 New Orleans LA 70130	
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:		
Many Heymann, PE 650 Poydras Street Suite 2550 New Orleans LA 70130 P: 504.799.0437 E: many.heymann@mottmac.com LA PE: 35554		
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.		
Many Heymann, PE 650 Poydras Street Suite 2550 New Orleans LA 70130 P: 504.799.0437 E: many.heymann@mottmac.com LA PE: 35554		
E. Please provide the number of employees whose primary function corresponds with each category:		
156 Administrative	5 Estimators	0 Specification Writers
26 Architects (Licensed)	11 Geologist	66 Structural Engineers
4 Chemical Engineers	47 Geotechnical Engineers	0 Graduate Engineers
204 Civil Engineers	1 Interior Designers	114 Project Managers
40 Construction Inspectors	6 Landscape Architects	56 Clerical
2 Ecologists	22 Land Surveyor	80 CAD Operators
75 Electrical Engineers	53 Mechanical Engineers	2 Grant Funding Specialist
130 Engineer Intern	29 Environmental Engineers	8 Sanitary Engineers
22 Professional Land Surveyors		2149 Total
F. Is this submittal by a JOINT-VENTURE? Please check: YES <input type="radio"/> NO <input checked="" type="radio"/>		
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.

N/A

H. Has the JOINT-VENTURE previously worked together? Please check:

Yes ____ No ____

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

Name & Address:	Specialty:	Worked with firm before (Yes or No)

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

40

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:

Many Heymann, PE - Vice President (Meets minimum qualification 2 + 3)

Project Assignment:

Project Prinicipal

Name of Firm with which associated:

Mott MacDonald

Years' experience with this Firm:

With this firm: 19 With other firms: 0

Education: Degree(s)/Year/Specialization:

BS, 2002, Chemical Engineering, University of South Alabama

Active registration: Year first registered/discipline:

LA, Civil, #35554, 2010

Other experience and qualifications relevant to the proposed Project:

Mr. Heymann has over 19 years of engineering experience and is the Project Manager for several recent utilities projects, most notably the Bourbon Street Rehabilitation, Little Farms Avenue overlay, Cargo Roads Rehabilitation Project and N. Perimeter Road located at the Louis Armstrong New Orleans International Airport and the rehabilitation design of over 20 miles of streets for the City of New Orleans. Mr. Heymann has extensive utilities experience on the featured projects.

Selected experience

Oxidation Pond, St. Charles Parish, LA: Project Director. Performed Civil Design for the oxidation pond located in St. Charles Parish, LA. The project scope includes aiding the client in identifying and describing the major components of a new oxidation pond facility, providing preliminary civil site planning and design, developing construction documents, and providing input and assistance with a study document for the new facilities.

Bourbon Street Rehabilitation (Canal Street to Dumaine Street), City of New Orleans, Department of Public Works, New Orleans, LA: Project Director, providing plan review services for the repair of Bourbon Street surface and underground infrastructure from Canal Street to Dumaine Street as part of the City-wide Public Safety Program. Mott MacDonald coordinated and sequenced construction after engaging the City of New Orleans, Department of Public Works, the Sewerage and Water Board of New Orleans, residents, business owners, utilities, and contractors.

St. Ann Street Rehabilitation (Bourbon Street to Dauphine Street), City of New Orleans, New Orleans, LA: Project Engineer Mott MacDonald provided professional design services for the full reconstruction of St. Ann Street surface and subsurface infrastructure from Bourbon Street to Dauphine Street. MacDonald coordinated the accelerated design as a result of the existing sewer system being in poor condition causing large subsurface voids beneath the existing roadway. The sequence of construction was also developed while engaging the City of New Orleans, Department of Public Works, the Sewerage and Water Board of New Orleans, residents, business owners, utilities, and contractors and lesson learned during Bourbon Street Phase I/II.

Conti Street Rehabilitation (Bourbon Street to Chartres Street), City of New Orleans, New Orleans, LA: Project Engineer, Mott MacDonald provided professional design services for the full reconstruction of Conti Street surface and subsurface infrastructure from Bourbon Street to Chartres Street. Mott MacDonald is currently coordinating the design and construction sequenced construction after engaging the City of New Orleans, Department of Public Works, the Sewerage and Water Board of New Orleans, residents, business owners, utilities, and contractors.

Little Farms Avenue Rehabilitation, Jefferson Parish, Louisiana: Project Principal for the Engineering, Construction Administration, and Resident Inspection services for the improvement of Little Farms Avenue from Stewart Avenue to Airline Drive. Mott MacDonald is responsible for the coordination between the Parish, the LADOTD, Canadian National Railway, private utility owners, and contractors.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Elizabeth Guiza, PE - Principal Engineer (Meets minimum qualification 1)
Project Assignment:
Project Manager
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With this firm: 11 With other firms:0
Education: Degree(s)/Year/Specialization:
BS, 2010, Civil Engineering, University of Mississippi
Active registration: Year first registered/discipline:
2015, Civil, LA, #39531
Other experience and qualifications relevant to the proposed Project:
Ms. Guiza has over a decade of engineering experience and is responsible for the underground utilities for several recent projects in southeast Louisiana, notably the rehabilitation design of over 20 miles of streets for the City of New Orleans. Ms. Guiza has completed the ATSSA Traffic Control Technician, Supervisor and Flagger WorkZone Training Program.
Selected experience
Oxidation Pond, St. Charles Parish, LA: Project Engineer. Performed Civil Design for the oxidation pond located in St. Charles Parish, LA. The project scope includes aiding the client in identifying and describing the major components of a new oxidation pond facility, providing preliminary civil site planning and design, developing construction documents, and providing input and assistance with a study document for the new facilities.
Bourbon Street Rehabilitation Phase I (Canal Street to St. Louis Street), City of New Orleans, New Orleans, LA: Project Engineer. Mott MacDonald provided professional design services to reconstruct 4 blocks of Bourbon St (Canal Street to St. Louis Street) in the historic French Quarter as part of the City-wide Public Safety Program. Many of the existing utilities are well over 100 years old, the work for this project includes upsizing the existing drain lines, replacing the existing water lines, repairing the existing sewer lines, and improving the existing low-pressure gas lines, replacing the existing underground electrical conduits, replacing the existing pavement and providing movable traffic bollards.
St. Ann Street Rehabilitation (Bourbon Street to Dauphine Street), City of New Orleans, New Orleans, LA: Project Engineer Mott MacDonald provided professional design services for the full reconstruction of St. Ann Street surface and subsurface infrastructure from Bourbon Street to Dauphine Street. MacDonald coordinated the accelerated design as a result of the existing sewer system being in poor condition causing large subsurface voids beneath the existing roadway. The sequence of construction was also developed while engaging the City of New Orleans, Department of Public Works, the Sewerage and Water Board of New Orleans, residents, business owners, utilities, and contractors and lesson learned during Bourbon Street Phase I/II.
Conti Street Rehabilitation (Bourbon Street to Chartres Street), City of New Orleans, New Orleans, LA: Project Engineer, Mott MacDonald provided professional design services for the full reconstruction of Conti Street surface and subsurface infrastructure from Bourbon Street to Chartres Street. Mott MacDonald is currently coordinating the design and construction sequenced construction after engaging the City of New Orleans, Department of Public Works, the Sewerage and Water Board of New Orleans, residents, business owners, utilities, and contractors.
New Orleans Sewerage and Water Board - FEMA Waterline Rehabilitation Design at St. Anthony and Dillard Neighborhoods, New Orleans, LA: Project Engineer. The project scope includes developing preliminary design plans, final plans and specifications, bid documents, and construction administration for the design of 30,000LF of 8" and 12" waterlines in New Orleans. Mott MacDonald's responsibilities include horizontal and vertical layout of waterlines, providing an opinion of probable cost and construction administration.
FEMA Street Repairs at Milneburg, City of New Orleans, New Orleans, LA: Project Engineer for professional engineering design and surveying services for FEMA-eligible street repairs. The project scopes of work include conducting topographic and boundary surveys, preparing drainage models, developing preliminary design plans, final plans and specifications, and bid documents for use in the reconstruction of damaged roadways, curbs, drainage, utilities, and driveways for approximately 18 linear miles of roadways. Mott MacDonald conducted detailed field assessments to identify locations and extents of damage that has occurred as a result of Hurricane Katrina.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Lila Lasecki, PE - Senior Project Manager
Project Assignment:
Civil Engineer
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With this firm: 6 With other firms:0
Education: Degree(s)/Year/Specialization:
BS, Civil Engineering, The University of Alabama, 2015
Active registration: Year first registered/discipline:
2019, Civil, LA, #44145
Other experience and qualifications relevant to the proposed Project:
<p>Ms. Lasecki joined Mott MacDonald in 2015 with a specialization in stormwater management and construction engineering. She is skilled in site design using Civil 3D and other, similar software. Ms. Lasecki has extensive underground utility design experience in Southeastern Louisiana.</p> <p>Selected experience</p> <p>Oxidation Pond, St. Charles Parish, LA: Project Manager and performed Civil Design for the oxidation pond located in St. Charles Parish, LA. The project scope includes aiding the client in identifying and describing the major components of a new oxidation pond facility, providing preliminary civil site planning and design, developing construction documents, and providing input and assistance with a study document for the new facilities.</p> <p>Bourbon Street Reconstruction (Phases 1 and 2), New Orleans, LA: Project Engineer, providing plan design and review services for the repair of Bourbon Street surface and underground infrastructure from Canal Street to Dumaine Street as part of the City-wide Public Safety Program. Mott MacDonald coordinated and sequenced construction after engaging the City of New Orleans, Department of Public Works, the Sewerage and Water Board of New Orleans, residents, business owners, utilities, and contractors.</p> <p>RR069 Lake Terrace and Oaks Group A (PCI), New Orleans, LA: Project Engineer for the design and surveying services for FEMA-eligible street repairs in the Lake Terrace and Lake Oaks neighborhoods. Mott MacDonald conducted detailed field surveys to identify locations and extents of damage that has occurred as a result of natural disasters. Mott MacDonald is responsible for providing data regarding features to be reconstructed in order to obtain FEMA funds. The project scope of work includes conducting topographic and boundary surveys, developing preliminary design plans, final plans and specifications, and bid documents reconstruction of damaged roadways, curbs, utilities, and driveways. Mott MacDonald is responsible for coordinating with utility owners and providing construction administration services.</p> <p>RR130 Milneburg Group A Project, New Orleans, LA: Project Engineer for professional engineering design and surveying services for FEMA-eligible street repairs. Mott MacDonald conducted detailed field surveys to identify locations and extents of damage that has occurred as a result of natural disasters. Mott MacDonald is responsible for providing data regarding features to be reconstructed in order to obtain FEMA funds. The project scope of work includes conducting topographic and boundary surveys, developing preliminary design plans, final plans and specifications, and bid documents for use in the reconstruction of damaged roadways, curbs, utilities, and driveways.</p> <p>Loyola Drive at I-10 Interchange Improvements, Kenner, LA: Project Engineer providing roadway and utility plan reviews for the Design Build project that will widen a portion of I-10 between Loyola Drive and Williams Boulevard, elevated ramps to and from Loyola Drive, and improvements to Loyola Drive to enhance operational conditions and increase the capacity of this interchange accommodating future traffic demand in the area and ingress and egress for airline passenger traffic to the new Louis Armstrong New Orleans International Airport terminal. Mott MacDonald is the project coordinator for utilities.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Austin Kittok, PE - Civil Engineer IV
Project Assignment:
Civil Engineer
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With this firm: 5 With other firms:0
Education: Degree(s)/Year/Specialization:
BS, Civil Engineering, University of Louisiana at Lafayette, 2016
Active registration: Year first registered/discipline:
2021, Civil, LA, #45850
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Kittok provides engineering support for a range of projects including civil/site developments, gravity stormwater systems, and roadway construction. Mr. Kittok is experienced in the development of cost estimates, quantity calculations, drainage design, stormwater management plans, geometric design, erosion control, maintenance-of-traffic, preparation of specifications, and construction inspection. Mr. Kittok has extensive underground utility design experience in Southeastern Louisiana.</p> <p>Selected experience</p> <p>Oxidation Pond, St. Charles Parish, LA: Project Engineer. Performed Civil Design for the oxidation pond located in St. Charles Parish, LA. The project scope includes aiding the client in identifying and describing the major components of a new oxidation pond facility, providing preliminary civil site planning and design, developing construction documents, and providing input and assistance with a study document for the new facilities.</p> <p>Water System Pipeline Assessment and Near Term (5-Year) Plan, N-Y Associates, Jefferson Parish, LA: Project Engineer assisting in the assessment of Jefferson Parish's existing water system to develop and provide a 5-year plan defining critical areas requiring replacement within the Parish's water system. Mott MacDonald is acting as a subconsultant to N-Y Associates, Inc for this project and all work is split 50-50. Mott MacDonald's scope of work consists of evaluating and determining problem areas within the Parish's water system through interviews with Parish workers, GIS records, and existing water models received from the Parish. Once a full assessment has been completed Mott MacDonald will update and develop a prioritized list of probable water main failures which include both transmission and distribution mains. Additional analysis shall be completed to provide Jefferson Parish with rough orders of magnitude associated with the construction cost to replace the assessed mains recommended for replacement and provide a written report documenting the years in which mains should be replaced.</p> <p>Water Strategic Plan, City of Kenner, Kenner, LA: Project Manager for the water strategic plan for the City of Kenner's existing water system. Mott MacDonald's scope of work consists of analyzing the City of Kenner's existing water system and providing goals, needs and methodology for upgrades to the City's existing water system by working with the City of Kenner to fully understand their current needs and what will be needed in the future.</p> <p>Bourbon Street Reconstruction (Phases 1 and 2), New Orleans, LA: Project Engineer, providing plan design and review services for the repair of Bourbon Street surface and underground infrastructure from Canal Street to Dumaine Street as part of the City-wide Public Safety Program. Mott MacDonald coordinated and sequenced construction after engaging the City of New Orleans, Department of Public Works, the Sewerage and Water Board of New Orleans, residents, business owners, utilities, and contractors.</p> <p>Conti Street Rehabilitation (Bourbon Street to Chartres Street), City of New Orleans, New Orleans, LA: Lead Project Engineer, providing plan development services for the full reconstruction of Conti Street surface and subsurface infrastructure from Bourbon Street to Chartres Street. Mott MacDonald is currently coordinating the design and construction sequenced construction after engaging the City of New Orleans, Department of Public Works, the Sewerage and Water Board of New Orleans, residents, business owners, utilities, and contractors. Mr. Kittok managed extensive underground sewer utility rehabilitation on the Conti Street Rehabilitation project.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Amir Zafar, PE - Principal Project Manager
Project Assignment:
Wastewater Civil Engineer
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With this firm: 22 With other firms: 2
Education: Degree(s)/Year/Specialization:
MBA, Mississippi State University, 2010 MS, Chemical Engineering Concentration in Process Design and Environmental Engineering, University of South Alabama, 1998 BS, Chemical Engineering University of South Alabama, 1996
Active registration: Year first registered/discipline:
2017, Civil, FL, #56829
Other experience and qualifications relevant to the proposed Project:
Mr. Zafar has experience in detailed industrial and municipal water and wastewater treatment facilities design, pump station, sewer collection system, inflow and infiltration analysis, water distribution system, booster pump station, solid waste management and recycling, stream water quality analysis, regulatory permitting, facility startup, analytical testing, effluent reuse, project funding, and odor control.
Selected experience
Oxidation Pond, St. Charles Parish, LA: Project principal responsible for oversight and Civil design for the oxidation pond located in St. Charles Parish, La. The project scope includes aiding the client in identifying and describing the major components of a new oxidation pond facility, providing preliminary civil site planning and design, developing construction documents, and providing input and assistance with a study document for the new facilities. Primary duties include devising a viable treatment process scenario using an oxidation lagoon to satisfy project parameters and develop a concept report. This includes studying topographical data, identifying major components of the new facility, preparing a preliminary site plan, providing order of magnitude construction costs, providing support regarding operation and control strategies, providing input and assistance with the study components, and providing QA/QC services related to the process design concept.
Wastewater Facilities Plan, Town of Havana, FL: Produced a planning document to be used to secure approximately \$2 million dollars of SRF funding for the Town of Havana's wastewater conveyance and treatment system. The document explicitly evaluated several alternatives to rehabilitate or replace several lift stations that were releasing untreated sewage (SSOs) into the environment. The study included preliminary engineering, scheduling, and detailed cost estimates.
Wastewater Effluent Disposal, City of Chipley, Chipley, FL: Assisted with preparing both feasibility and preliminary engineering reports to both State and Federal funding and permitting agencies for a \$10 million dollar effluent disposal project. Provided civil design support for the design, cost estimating, permitting, bidding, and construction services of a 1.2 MGD treated effluent land disposal scheme. The project included a 12-mile+/- long, 14-inch forcemain, an intermediate 1,200-GPM vertical turbine pump station, and a sprayfield. Primary duties within the project include the design of the 200-acre+/- sprayfield, a 5 million-gallon+/- effluent holding pond, and a triplex, 1,240-GPM.
Potable Water Distribution System Assessment, Jefferson Parish, LA: Principal Engineer responsible for the review and preparation of a water strategic plan for Jefferson Parish, Louisiana. Work included assisting in the assessment of Jefferson Parish's existing water distribution and transmission system to develop and provide a 5-year plan defining critical areas requiring replacement within the Parish's water system. Mott MacDonald's scope of work consists of evaluating and determining problem areas within the Parish's water system through interviews with Parish workers, GIS records, and existing water models received from the Parish. The assessment included spatial risk analysis, such that a prioritized list of probable water main failures (both transmission and distribution) could be developed. The prioritized list of repairs and replacements total approximately \$125 million over 5-years and conforms to the planned annual capital spending budget of the Parish.
Potable Water Strategic Plan, City of Kenner, Kenner, LA: Project principal responsible for the water strategic plan for the City of Kenner's existing water system. Mott MacDonald's scope of work consists of analyzing the City of Kenner's existing water system and providing goals, needs and methodology for upgrades to the City's existing water system by working with the City of Kenner to fully understand their current needs and what will be needed in the future.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Douglas Brown, PE - Civil Engineer IV
Project Assignment:
Wastewater Civil Engineer
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With this firm: 3 With other firms: 1
Education: Degree(s)/Year/Specialization:
MS, Civil Engineering, Florida State University, 2018 BS, Civil Engineering, Florida State University, 2016
Active registration: Year first registered/discipline:
2017, Civil, FL, #92723
Other experience and qualifications relevant to the proposed Project:
Mr. Brown specializes in the planning, design, and construction of engineering projects as a civil engineering water resource engineer. Skilled in an array of software, including ArcGIS products, Bentley water modeling software, ICPR, and the Autodesk suite. Mr. Brown is a dedicated engineering professional with a master's degree focused in Civil & Environmental Engineering from Florida State University. Prior to pursuing civil engineering, Mr. Brown worked for several years as a residential and commercial electrician within the Florida Panhandle.
Selected experience
Oxidation Pond, St. Charles Parish, LA: Project Engineer Performed Civil Design for the oxidation pond located in St. Charles Parish, LA. The project scope includes aiding the client in identifying and describing the major components of a new oxidation pond facility, providing preliminary civil site planning and design, developing construction documents, and providing input and assistance with a study document for the new facilities.
Lift Station 1 Relocation, City of Newberry, FL: Engineer, for the design of a new master lift station which was relocated from a high-profile area. The design included hydraulic modeling of the pump station, along with properly sizing the structure and equipment to be easily upgraded, allowing for a low-cost solution to the station's capability in pumping future flows.
Renaissance Development, City of Mary Esther, FL: Engineer, for the design and analysis for pump upgrades to two master pump stations which flow to the WWTF. The design included hydraulic modeling and analysis of the manifold system, to support a 228-unit multifamily residential complex which pumps into the Mary Esther WWTF. The upgrades were equipment only, with refurbishment of the structures on an as-need basis. The design included an emergency back-up, bypass pump, and VFD controls at one of the pump stations.
Panama City Combined Water/Wastewater Planning Document, City of Panama City, FL: Provided a comprehensive planning document which included several infrastructure elements into a holistic post Hurricane Michael recovery plan for the City of Panama City. Elements included wastewater treatment facilities, wastewater collection and conveyance systems, drinking water distribution, storm water, and transportation (roadway) items. The planning document identified approximately \$300 million dollars in required infrastructure work and has to date been used to successfully acquire over \$125 million dollars in low cost loan and grant funding.
Wastewater Facilities Plan, Town of Havana, FL: Produced a planning document to be used to secure approximately \$2 million dollars of SRF funding for the Town of Havana's wastewater conveyance and treatment system. The document explicitly evaluated several alternatives to rehabilitate or replace several lift stations that were releasing untreated sewage (SSOs) into the environment. The study included preliminary engineering, scheduling, and detailed cost estimates.
Wastewater Effluent Disposal, City of Chipley, Chipley, FL: Assisted with preparing both feasibility and preliminary engineering reports to both State and Federal funding and permitting agencies for a \$10 million dollar effluent disposal project. Provided civil design support for the design, cost estimating, permitting, bidding, and construction services of a 1.2 MGD treated effluent land disposal scheme. The project included a 12-mile+/- long, 14-inch forcemain, an intermediate 1,200-GPM vertical turbine pump station, and a sprayfield. Primary duties within the project include the design of the 200-acre+/- sprayfield, a 5 million-gallon+/- effluent holding pond, and a triplex, 1,240-GPM, vertical turbine sprayfield pump station.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Billy Perry, PE, SI - Senior Vice President
Project Assignment:
Wastewater QA/QC
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With this firm: 21 With other firms: 18
Education: Degree(s)/Year/Specialization:
BS, Civil Engineering, Auburn University, 1982
Active registration: Year first registered/discipline:
FL #40552, 1988 (Civil) and AL #16701, 1988 (Civil)
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Perry serves as a project engineer whose primary duties include project management of a multi-disciplined team on various engineering and environmental projects for local, state, and federal clients. His experience includes civil/site, stormwater, water and wastewater treatment, collection and transmission, port and airport facilities, building systems and facilities assessment, fuel storage systems, environmental assessments and various private projects. Mr. Perry has considerable structural experience in building systems, hydraulic structures and port facilities and often serves as lead structural engineer in addition to project management duties. Mr. Perry often serves as the client contact for several governmental clients where he serves as the "liaison" between our company and the client.</p>
Selected experience
<p>Oxidation Pond, St. Charles Parish, LA: QA/QC. Performed Design review for the oxidation pond located in St. Charles Parish, LA. The project scope includes aiding the client in identifying and describing the major components of a new oxidation pond facility, providing preliminary civil site planning and design, developing construction documents, and providing input and assistance with a study document for the new facilities.</p>
<p>City of Lake City WWTF – 3.0 MGD New Plant, Lake City, FL: QA/QC responsible for overseeing and checking the design, specifications and cost estimate to construct a new 3.0 MGD AWT. The project includes headworks, Stage 5 Bardenpho- biological treatment units, final clarification, UV disinfection, RAS-WAS pumping Stations, digesters, effluent pump station and restricted access public reuse facility. Mr. Perry Provided quality control for structural design.</p>
<p>City of Bonifay, WWTF Upgrade, Bonifay, FL: QA/QC responsible for overseeing and checking the design, specifications, and cost estimate to add new 3.4 MGD headworks, 3.4 MGD influent pump station, 4.0 MGD Effluent disk filter, Sludge and Operations building. Mr. Perry Provided quality control and oversight for structural design and cost.</p>
<p>T.P. Smith WRF, City of Tallahassee, Tallahassee, FL: QA/QC responsible for overseeing and checking construction plans for 64 MGD primary effluent pump station, three primary clarifiers, odor control system, sludge pump station and secondary digester. Work includes analysis and design, cost estimate, and coordination of the work with other disciplines.</p>
<p>Millville WWTF Permit Renewal, City of Panama City, Panama City, FL: QA/QC responsible for overseeing and checking preparation of application to renew the discharge permit. The work required a site inspection, and preparation of a Capacity Analysis Report and Operation & Maintenance Report, in addition to the Permit Application. Mr. Perry Provided Quality control for structural design.</p>
<p>Bonifay Sewer System Improvements, Bonifay, FL: Project Principal responsible for the evaluation and design of the City's sewer system upgrades. Project deliverables included hydraulic model, and construction plans to upgrade and expand the City's current sewer system. More particularly the project included replacement of several major lift stations with grinder type lift stations ranged in capacity from 5 hp to 60 hp, over 300 manholes, and over 25,000 LF of sewer mains.</p>
<p>Sewer System Improvements, City of Springfield, FL: Project Director for the design, permitting, bidding and construction of the sanitary sewer collection and transmission system. The project included approximately 12 miles of 8-inch gravity sewer and 6 pump stations. The force main system was modeled to ensure that the existing pipe to the WWTP had adequate capacity.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Jason Garz, PE, BCEE - Principal Project Manager
Project Assignment:
Pump Station Design
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With this firm: 17 With other firms: 10
Education: Degree(s)/Year/Specialization:
MCE, Civil Engineering, Auburn University, 1994 BCE, Civil Engineering, Auburn University, 1993
Active registration: Year first registered/discipline:
2014, LA, #39118 (Civil)
Other experience and qualifications relevant to the proposed Project:
Mr. Garz joined Mott MacDonald in April 2005 and serves as a Senior Project Manager in our water and wastewater division. Mr. Garz has 27 years of experience in the analysis, design and permitting of water, wastewater and stormwater projects.
Selected experience
Water System Hydraulic Model Update and Recalibration, District of Columbia Water and Sewer Authority (DC Water), Washington, DC: Hydraulic modeling support and QA/QC review for updates to the existing water model to better reflect current conditions with respect to demands and operational conditions. The scope of work includes pressure monitoring, fire flow tests, review of available SCADA data, customer meter data analysis, pump performance review, and development of diurnal demand patterns by property type.
Anacostia 2nd High Pressure Zone Commissioning, District of Columbia Water and Sewer Authority (DC Water), Washington, DC: Program Manager for commissioning of a new pressure zone in the distribution system. Commissioning of the new zone is the final step in the 20-year planning process, which included nearly \$100M in Capital Improvement Plan (CIP) projects required to implement a ninth pressure zone for approximately 6,000 customers
Pump Station #1 Force Main and Reclaimed Water Main, City of Fort Walton Beach, FL: Served as project manager for project involving the design of approximately five miles of 20-inch and 36-inch force main as well as approximately one mile of 6-inch and 10-inch reclaimed water main. The project included a 700-ft open cut crossing of Cinco Bayou, highway jack and bores and horizontal directional drills. Project also included SRF loan documentation and permitting through Florida Department of Environmental Protection, Army Corps of Engineers, United States Coast Guard, Florida Department of Transportation and Okaloosa County Public Works.
Facility Plan for Central Water Reclamation Facility, ECUA, Pensacola, FL: Project Engineer for a new facility Plan for the replacement of the 20 MGD Main Street Wastewater Treatment Plant. Completed analysis and hydraulic model of the raw sewage transmission system and reclaimed water distribution system, reviewed sites for new regional lift stations, identified existing lift stations to be upgraded, evaluated and established proposed sewage transmission main routes, prepared cost estimates for alternatives analysis. Established design conditions for new master lift stations and existing ECUA lift stations to be upgraded.
Engineering Program Management Consultant (EPMC-2E) Contract, District of Columbia Water and Sewer Authority (DC Water), Washington, DC: Program Manager Officer (PMO) for the 10-year \$700 million Capital Improvement Program (CIP) for upgrading the water system. Responsibilities include program quality plan implementation, enforcement and audits, task order quality plan coordination, assistance with 10-year CIP updates and regular Primavera P6 schedule updates, invoicing, project reporting, project controls, and hydraulic modeling assistance and review.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Bailey Favaloro, EI - Civil Engineer II
Project Assignment:
Civil Engineer
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With this firm: 2 With other firms: 2
Education: Degree(s)/Year/Specialization:
BS, Civil Engineering, Louisiana State University, 2019
Active registration: Year first registered/discipline:
2019, Civil, LA, #34250(EI)
Other experience and qualifications relevant to the proposed Project:
<p>Ms. Favaloro has experience providing engineering support for a range of projects including civil/site developments, gravity stormwater systems, and roadway construction. Ms. Favaloro is experienced in the development of cost estimates, quantity calculations, drainage design, stormwater management plans, geometric design, erosion control, maintenance-of-traffic, preparation of specifications, and construction inspection. Ms. Favaloro is an Autodesk Certified Professional in Civil 3D for Infrastructure Design and has completed the ATSSA Traffic Control Supervisor, Technician and Flagger Work Zone Training Program.</p> <p>Selected experience</p> <p>Bourbon Street Reconstruction (Phases 1 and 2), New Orleans, LA: Engineer Intern provided CA review assistance for the full reconstruction of Bourbon Street surface and subsurface infrastructure from St. Louis to Dumaine Street as part of the City-wide Public Safety Program. Mott MacDonald coordinated and sequenced construction after engaging the City of New Orleans, Department of Public Works, the Sewerage and Water Board of New Orleans, residents, business owners, utilities, and contractors and lessons learned during Bourbon Street Phasel.</p> <p>RR069 Lake Terrace and Oaks Group A (PCI), New Orleans, LA: Engineer Intern providing CA review assistance for FEMA-eligible street repairs in the Lake Terrace and Lake Oaks neighborhoods. Mott MacDonald conducted detailed field surveys to identify locations and extents of damage that has occurred as a result of natural disasters. Mott MacDonald is responsible for providing data regarding features to be reconstructed in order to obtain FEMA funds. The project scope of work includes conducting topographic and boundary surveys, developing preliminary design plans, final plans and specifications, and bid documents for the full reconstruction of damaged roadways, curbs, utilities, and driveways. Mott MacDonald is responsible for coordinating with utility owners and providing construction administration services.</p> <p>RR072 - Lake Terrace and Oaks Group D (FRC), New Orleans, LA: Engineer Intern providing CA review assistance for FEMA-eligible street repairs in the Lake Oaks neighborhood. The project scope of work includes conducting topographic and boundary surveys, developing preliminary design plans, final plans and specifications, and bid documents for the full reconstruction of all subsurface utilities located on Oriole Street, Killdeer Street, and Jay Street. Mott MacDonald is responsible for coordinating with utility owners and providing construction administration services.</p> <p>RR130 Milneburg Group A Project, New Orleans, LA: Engineer Intern providing surveying, design, and CA assistance for the FEMA-eligible street repairs at the Milneburg neighborhood. Mott MacDonald conducted detailed field surveys to identify locations and extents of damage that has occurred as a result of natural disasters. Mott MacDonald is responsible for providing data regarding features to be reconstructed in order to obtain FEMA funds. The project scope of work includes conducting topographic and boundary surveys, developing preliminary design plans, final plans and specifications, and bid documents for use in the reconstruction of damaged roadways, curbs, utilities, and driveways. Mott MacDonald is responsible for coordinating with utility owners and providing construction administration services.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Conner Wick, EI - Civil Engineer I
Project Assignment:
Civil Engineer
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With this firm: 1 With other firms: 0
Education: Degree(s)/Year/Specialization:
BS, Civil Engineering, Louisiana State University, 2020
Active registration: Year first registered/discipline:
2021, Civil, LA, #34873(EI)
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Wick has experience providing engineering support for a range of projects including civil/site developments, gravity stormwater systems, and roadway construction. Mr. Wick is experienced in the development of cost estimates, quantity calculations, drainage design, stormwater management plans, geometric design, erosion control, maintenance-of-traffic, preparation of specifications, and construction inspection. Mr. Wick has completed the ATSSA Traffic Control Supervisor, Technician and Flagger Work Zone Training Program.</p> <p>Selected experience</p> <p>Milneburg (Group A), City of New Orleans, New Orleans, LA: Engineer Intern providing surveying, design, and CA assistance for the FEMA-eligible street repairs at the Milneburg neighborhood. Mott MacDonald conducted detailed field surveys to identify locations and extents of damage that has occurred as a result of natural disasters. Mott MacDonald is responsible for providing data regarding features to be reconstructed in order to obtain FEMA funds. The project scope of work includes conducting topographic and boundary surveys, developing preliminary design plans, final plans and specifications, and bid documents for use in the reconstruction of damaged roadways, curbs, utilities, and driveways. Mott MacDonald is responsible for coordinating with utility owners and providing construction administration services.</p> <p>New Orleans Sewerage and Water Board - FEMA Waterline Rehabilitation at St. Anthony and Dillard Neighborhoods, New Orleans, LA: Engineer Intern providing surveying and engineering services for the development of preliminary design plans, final plans and specifications, bid documents, and construction administration for the design of 30,000 LF of waterlines in New Orleans.</p> <p>Lake Terrace and Lake Oaks (Group B), City of New Orleans, New Orleans, LA: Engineer Intern assisting in design and surveying services for FEMA-eligible street rehabilitation in the Lake Terrace neighborhood. The project scope of work includes conducting topographic and boundary surveys, developing preliminary design plans, final plans and specifications, and bid documents for the full reconstruction of all subsurface utilities located in nine (9) neighborhood blocks. Mott MacDonald is responsible for coordinating with utility owners and providing construction administration services.</p> <p>Lake Terrace and Lake Oaks (Group D), City of New Orleans, New Orleans, LA: Engineer Intern providing CA assistance for FEMA-eligible street repairs in the Lake Oaks neighborhood. The project scope of work includes conducting topographic and boundary surveys, developing preliminary design plans, final plans and specifications, and bid documents for the full reconstruction of all subsurface utilities located on Oriole Street, Killdeer Street, and Jay Street. Mott MacDonald is responsible for coordinating with utility owners and providing construction administration services.</p> <p>West End (Group E), City of New Orleans, New Orleans, LA: Engineer Intern assisting in design services for FEMA-eligible street repairs in the West End neighborhood. The project scope of work includes conducting topographic and boundary surveys, developing preliminary design plans, final plans and specifications, and bid documents for the full reconstruction of all subsurface utilities located on Bellaire Drive (NO Hammond Hwy – 32nd Street). Mott MacDonald is responsible for coordinating with utility owners and providing construction administration services.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Andrew Gibbs, PE - Senior Project Manager
Project Assignment:
Electrical Engineer
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With this firm: 13 With other firms: 1
Education: Degree(s)/Year/Specialization:
BS, Electrical Engineering, University of South Florida, 2008
Active registration: Year first registered/discipline:
LA, #456164, 2014; AL, #33994, 2013 (Electrical)
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Gibbs is a Senior Project Manager and Deputy Practice Leader for Mott MacDonald's Electrical Engineering and Instrumentation, Controls & Automation (ICA) group. His broad range of technical experience includes: medium and low voltage power distribution, overcurrent protective device coordination studies, short circuit analysis, load flows, arc flash hazard analysis, interior, exterior area, and roadway lighting, generator paralleling, power factor correction, grounding and lightning protection systems, industrial control systems and networks, SCADA, instrumentation systems, access security systems, airfield visual and navigational aids (aeronautical ground lighting), and electrical inspection. This technical experience has been in the aviation, highways, pipelines, ports and harbors, stormwater, tunnels, water, and wastewater sectors across North America.</p>
Selected experience
<p>Sewer Extension Highway 69, Town of Grand Ridge, Grand Ridge, FL: Engineer of Record for the design of a new sanitary sewer pump station. The pump station was a 10.2 HP duplex pump station with provisions for standby power. The pump station was designed in accordance with rules of the Florida DEP.</p>
<p>Sanitary Sewer Phase 1, City of Midway, Midway, FL: Electrical Engineer of Record for the design of a new sanitary sewer pump station and flow meter site. The pump station was a 7.5 HP duplex pump station with permanently installed standby power and remote monitoring.</p>
<p>Arc Flash Hazard Analysis for the S. Palmer Gaillard Pump Station, Mobile Area Water and Sewer Service, Mobile, AL: Electrical Engineer of Record and Project Manager for updates to an arc flash analysis at a raw water pumping facility. The analysis included the updates to the evaluation based on NFPA 70E-2015</p>
<p>Arc Flash Hazard Analysis for the Eslava Creek Pump Station, Mobile Area Water and Sewer Service, Mobile, AL: Electrical Engineer of Record and Project Manager for updates to an arc flash analysis at a wastewater pumping facility. The analysis included the updates to the evaluation based on NFPA 70E-2015</p>
<p>Arc Flash Hazard Analysis for the Perch Creek Pump Station, Mobile Area Water and Sewer Service, Mobile, AL: Electrical Engineer of Record and Project Manager for updates to an arc flash analysis at a wastewater pumping facility. The analysis included the updates to the evaluation based on NFPA 70E-2015</p>
<p>Arc Flash Hazard Analysis for the Faye Lane Creek Pump Station, Mobile Area Water and Sewer Service, Mobile, AL: Electrical Engineer of Record and Project Manager for updates to an arc flash analysis at a wastewater pumping facility. The analysis included the updates to the evaluation based on NFPA 70E-2015</p>
<p>Virginia St Pump Station Electrical Rehabilitation, MAWSS, Mobile, AL: Electrical Engineer for electrical rehabilitations to a wastewater pump station. The design included relocating the 1200A service equipment, motor control center, and control system to a new elevating building to prevent damage from sewer gasses and flood waters.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Lowry Denty, PE, SI - Principal Project Manager
Project Assignment:
Structural Engineer
Name of Firm with which associated:
Mott MacDonald
Years' experience with this Firm:
With this firm: 25 With other firms: 3
Education: Degree(s)/Year/Specialization:
BS, 1993, Civil Engineering, Georgia Institute of Technology BS, 1993, University of Georgia, (Dual Degree Program)
Active registration: Year first registered/discipline:
2013, LA, #38440 (Civil)
Other experience and qualifications relevant to the proposed Project:
Mr. Denty currently serves as Structural Design Manager for Mott MacDonald. As a Senior Structural Engineer, Project Manager, and Special Inspector, he is involved in all aspects of project design, administration, and threshold inspections. His broad base of structural engineering experience includes structural design and construction administration for commercial, municipal, educational, and transportation projects.
Selected experience
Players Club Water Reclamation Facility (WRF) Expansion, SJCUD, Ponte Vedra Beach, FL: Structural QA/QC Engineer for the design, permitting, bidding, and construction services for a new 2.4 mgd WRF to consolidate the flow from the Players Club, Innlet Beach, and Sawgrass WWTPs. The project includes screens, grit removal systems, UV, two-10 disk cloth disk filters, belt filter press, and six vertical turbine reclaimed water pumps to three different discharge locations. Project challenges include an accelerated schedule associated with State Revolving Fund (SRF) requirements, improvements that meet AWT limits, creative consolidation of existing flow from the other WWTPs, and maintenance of plant operations during construction.
McMillan St. Pump Station Rehabilitation, JEA, Jacksonville, FL: Structural QA/QC Engineer for the McMillan Street Class III/IV Pump Station rehabilitation. The project consists of the installation of new influent sluice gates, a multi-rake bar screen, replacement of four extended shaft centrifugal pumps, installation of an odor control system, structural rehabilitation of the deteriorated portions of the station exposed to sewer gases, and electrical upgrades
Marietta WTP HSP Replacement, JEA, Jacksonville, FL: Structural EOR for the design, permitting, bidding, and construction services of an upgrade to JEA's Marietta WTP. The project includes three new 2,500 gpm horizontal-split case pumps, new standby generator, VFDs, and controls. The new electrical building will be a precast concrete building and will be sized for the upgrades and for future upgrades anticipated at the plant. Structural design includes new concrete pads for the building and generator and pump bases.
A1A Ground Storage Tank, and Booster Pump Station, SJCUD, St. Johns County, FL: Structural QA/QC Engineer for the necessary improvements to meet a fire flow of 1,500 gpm. The recommended improvements are a 0.18 MG cast-in-place ground storage tank and new split-face block building to house the vertical turbine can booster pumps and jockey pump to use during low pressure periods and fire flow events and new electrical room.
Southeast WTP HSP Upgrades, JEA, Jacksonville, FL: Structural EOR for the design, permitting, bidding, and construction services of an upgrade to the high service pump building. The project included five 2,500 gpm pumps and VFDs in a new 3,150 sf split-face block building complete with a new 3-ton bridge crane. The building includes an electrical room, operator work area, and restroom. The project also includes yard piping improvements, new standby generator, VFDs, and controls.

TEC Professional Services Questionnaire

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

PROJECT NO. 1

Project Name, Location and Owner's contact information:

St. Charles Parish Oxidation Pond

St Charles Parish, LA

St. Charles Parish, David DeGeneres
15045 River Road, Hahnville, Louisiana, 70057
904.783.5000

**Nature of Firm's
Responsibility**

See below

Our team is devising a viable treatment process scenario using oxidation lagoon, or comparable process, to satisfy project parameters and develop a concept report. We're studying topographical data, identifying and describing the major components of the new facility, preparing a preliminary site plan, providing an OOM probable construction cost, providing support regarding recommended operation and control strategies, providing input and assistance with the study documents, and providing QA/QC services related to the process design concept.

Mott MacDonald performed Civil Design for the oxidation pond, including aiding the client in identifying and describing the major components of a new oxidation pond facility, providing preliminary civil site planning and design, developing construction documents, and providing input and assistance with a study document for the new facilities.



Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible
2023 EST	\$9M EST	\$65K (to date)

TEC Professional Services Questionnaire

PROJECT NO. 2	
Project Name, Location and Owner's contact information: Bourbon Street Rehabilitation (Canal Street to Dumaine Street) City of New Orleans, Louisiana City of New Orleans Department of Public Works, Josh Hartley, PE 1300 Perdido Street, Room 6W03, New Orleans, Louisiana 70112 (504) 658-8000	Nature of Firm's Responsibility See below

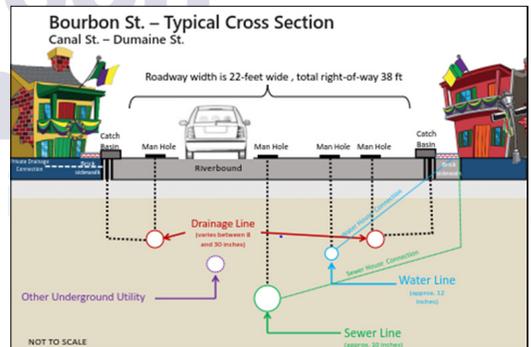
The City of New Orleans needed to fully reconstruct eight blocks of utilities underneath Bourbon Street without retracting from the historical aspects of the French Quarter. Mott MacDonald was selected to creatively address the sensitive design needs.

Understanding that Bourbon Street had not undergone any reconstruction in over 90 years, the City of New Orleans saw a need for a major infrastructure improvement. This included upsizing the existing stormwater infrastructure, replacing the existing water lines, **repairing the existing sewer lines**, replacing and improving the existing low-pressure gas lines, replacing the existing underground electrical conduits and duct banks, and replacing the existing pavement, sidewalks and ADA ramps.

Mott MacDonald developed an approach to address the time constraints and unknown variables relating to underground utility and infrastructure. Awarded as a fast track construction project, our design team agreed to be at least one block ahead of the contractor while simultaneously updating designs within hours of gaining new field information. **With the expectation of facing many drainage and other utility conflicts our team provided real time design solutions.**

Although the project goals were to replace the existing utilities, our team identified and recommended an opportunity to provide flood prevention. The main causes of flooding on Bourbon Street were undersized drainage systems and especially, the clogging or collapsing of existing drain lines due to directional boring utilities and large amounts of littering and debris. By maintaining a sustainability and environmentally conscious mindset, Mott MacDonald pro-actively designed adequate drain line sizes and new curb-guards on the stormwater inlets to vastly reduce the ability of litter to enter the new stormwater drainage system.

There were numerous positive outcomes as a result of the completion of this project, including: fast-track comprehensive design approach, value-added and insightful utility upgrades, the use of innovative curb guards to protect new infrastructure, maintaining one travel lane open during a 10 year storm event, and bringing the City of New Orleans a final project design that will survive the challenging conditions on Bourbon Street.



Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible
2020	\$20.7M	\$2.5M

TEC Professional Services Questionnaire

PROJECT NO. 3

Project Name, Location and Owner's contact information:

**Players Club Water Reclamation Facility
Ponte Vedra Beach, Florida**

Saint John's County Utilities Department, Mr. Scott Trigg, PE Project Manager
1205 State Road 16, St. Augustine, Florida, 32084
904-209-2622, strigg@sjcfl.us

**Nature of Firm's
Responsibility**

See below

To improve the effluent quality of treated wastewater and produce public-access reclaimed water in Ponte Vedra, St. Johns County Utility Department underwent its largest capital project to-date – the new Players Club Water Reclamation Facility. This effort consolidated wastewater flows from three existing wastewater treatment plants – Players Club, Inlet Beach, and Sawgrass.

Mott MacDonald designed this advanced wastewater treatment facility with headworks equipped with a 5 mm fine screen, and a vortex grit removal system, biotrickling filter odor control and carbon polisher, a four-stage Bardenpho treatment process with Micro-C and alum to meet TN of 5 mg/L and TP of 1 mg/L, secondary clarifiers, tertiary disk filters, and ultraviolet disinfection to public access reuse standards. Reclaimed water is stored in onsite ponds prior to pumping to one of several golf courses or discharged in wet weather events to surface waters. Solids are pumped to a holding tank and pressed in the dewatering facility prior to disposal. The plant's capacity is an average daily flow of 2.4 mgd and 6.5 mgd peak capacity.



The plant employs an energy-efficient aeration system using turbo blowers and fine bubble diffusers to optimize the dissolved oxygen in the treatment trains. This 5-acre site (excluding the ponds) also required design and permitting of a single wet detention facility, asphalt drives and parking areas, concrete sidewalks, and other ancillary features necessary for a complete and functional WRF. The site also includes a 3312 sf operations/laboratory building, dewatering building, as well as a combined blower and main electrical building. The WRF is protected by an earthen berm from CAT 2 storm surge and buildings and other critical facilities are at two feet above the 100-year flood event. Special coatings were used for any exposed metals for the buildings to protect them from the salt air.

Project challenges include an accelerated design schedule associated with State Revolving Fund (SRF) requirements, improvements that meet advanced wastewater treatment limits, creative consolidation of existing flow from other wastewater treatment plants, and maintenance of plant operations during construction. To meet the requirements to secure the State Revolving Fund low interest rate loan, the project followed an accelerated design schedule. Design was completed in nine months and construction was substantially completed in 24 months, five months ahead of schedule. This project is critical to providing high-level wastewater treatment reliably and cost-effectively, as well as delivering reclaimed water to customers in the area. The new facility will allow for a 60% reduction in nutrients. Treated water will most times be 100% recycled and is used to irrigate adjacent golf courses.

“It’s a pleasure to take the time to reach out and applaud all the efforts that make this project successful and to acknowledge that everything that was promised by the team in the proposal and schedule has been achieved.”

**Scott Trigg, PE
Chief Engineer, SJCUD**

Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible
2019	\$32M	\$4.2M

TEC Professional Services Questionnaire

PROJECT NO. 4	
Project Name, Location and Owner's contact information: <b style="color: green;">Iris Avenue Water Line Replacement River Road to Jefferson Highway Jefferson Parish, Louisiana Mr. Jerome Wood, P.E. Jefferson Parish Water Department 1221 Elmwood Park Blvd., Suite 907 Jefferson, LA 70123	Nature of Firm's Responsibility See below



Mott MacDonald was responsible for design services for the replacement of 3,500 feet of 12" PVC-C-900 waterline and associated street repairs. The project also includes resident inspection.

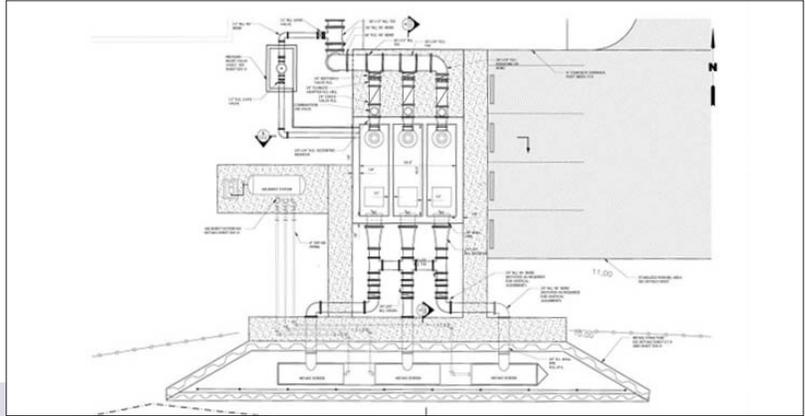
The project was broken into two Phases; Phase I includes Iris Avenue 12" (3500LF.) waterline replacement from River Road to Lance Street and includes 8" (500LF) waterlines on Jeanette & Lance Streets and Phase II is Iris Avenue 12" Waterline Replacement from Lance Street to Jefferson Highway. The project included the removal and replacement of 200S.Y. of Asphaltic Pavement. The abandoned waterlines were decommissioned using flowable fill.

Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible
2018	\$1M	\$140K

TEC Professional Services Questionnaire

PROJECT NO. 5	
<p>Project Name, Location and Owner's contact information: Bonifay Sewer Rehabilitation Bonifay, Florida</p> <p>City of Bonifay; James Eddie Sims, 301 E. Etheridge Street, Bonifay, Florida, 32425 850.547.4238</p>	<p style="text-align: center;">Nature of Firm's Responsibility See below</p>

The City of Bonifay's sewer system is over 50 years old, in poor condition and typically constructed of vitrified clay pipe. Rainfall induced infiltration and inflow (I/I) was causing excessive flows at the WWTP and the general condition of the system was requiring excessive maintenance. Mott MacDonald was selected by the City of Bonifay to perform a Sanitary Sewer Evaluation Study (SSES) which included an evaluation of known issues, pipeline inspection by flashing (lamping) method, a physical inspection of the manholes and smoke testing of the sewer pipelines. The study identified the various sources of I/I and other areas which would require additional investigation. The study prioritized the areas for the City and phased the program to allow for improvements to be made with available funding. Our team was able to quickly secure American Recovery and Reinvestment Act (ARRA) funding for the work identified thus saving the City in the overall construction dollars spent on the rehabilitation efforts. Due to the extremely tight timeframe required to secure the ARRA funds, the SSES was successfully completed in less than 45 days and the subsequent rehabilitation and replacement plans and specifications were completed in 45 days.



Mott MacDonald prepared the Phase 1 design and construction documents which included replacement of 23,552 lf of sewer main ranging from 8-12 inches in diameter size and 101 manholes, 1,375 vertical linear feet of manhole epoxy lining, and 19,200 lf of closed circuit television inspection. The work included in Phase 1 addressed the areas of the system with the greatest I/I. Therefore, it resulted in approximately 30 percent flow reduction at the WWTP. Phase 2 addressed the second tier of I/I and focused on the rehabilitation of pump stations that were being clogged (daily) by rags and debris coming from two prisons and a hospital facility. One pump station was relocated due to the proximity from the city's water well and the other two pump stations were upgraded with chopper pumps. The stations have been in operation without any problem for the past 6 months. Phase 2 also included the rehabilitation of 680 manholes and 33,350 lf of sewer. Methods of rehabilitation included cured-in-place pipe liner, and manhole lining using Spectrashield. Mott MacDonald also provided resident engineering services during construction for both Phase 1 and 2.

Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible
2020	\$8M	\$750K

TEC Professional Services Questionnaire

PROJECT NO. 6

Project Name, Location and Owner's contact information:

**McMillan Master Pump Station
Jacksonville, Florida**

Jacksonville Electric Authority, Beth DiMeo, PE, WWW System Delivery & Collection
21 W Church Street, Jacksonville, FL32202
904.665.8139, dimeea@jea.com

**Nature of Firm's
Responsibility**

See below

The McMillan St. Sewage Pumping Station was put into operation in 1961 and most of its preexisting mechanical and electrical/I&C equipment were at the end of their useful life. It was urgent to fast-track rehabilitation efforts to reduce risks, improve operator safety and system reliability, and increase the station's performance.

Mott MacDonald performed the design, permitting, bidding, and services during construction for the 42.5 mgd (firm pumping capacity) pump station rehabilitation. The project included pump selection and rehabilitation of the existing pump station, electrical system design, ventilation and odor control system, bypass pumping system, structural rehabilitation, construction sequencing. The design included four new vertical centrifugal pumps with VFDs (11,500 gpm, 100 hp, each), mechanical screen, sluice gates and stop logs, 4,600 cfm biotrickling filter odor control system, and sump pumps and controls. Electrical upgrades included all new components including MCCs, VFDs, transformers, 600 rpm pump motors, wiring and conduits, 500 kW generator and fuel tank, and I&C devices.



The project also included significant structural rehabilitation using Spectrashield, all new HVAC fans, ducts, and controls, development of detailed bypass pumping plans and coordination with bypass pumping vendors, yard piping system improvements, and permitting within FDOT and City ROW.

Significant challenges to the project included requiring a full bypass operation to properly upgrade the structural damage incurred to the concrete, screen channels, and wet well as a result of corrosion. The outdated electrical/I&C system also required major upgrades, including system selection, replacement, and relocation. Mechanical upgrades to the odor control system and HVAC were required as well.

To ensure the cost-effective and long-term success of the pump station, we evaluated various alternative protective concrete coatings, offered creative bypass solutions, and suggested reuse of components that could be salvaged, such as the existing control system/PLC panel, for cost savings.

The new pump station is rated at a design capacity of 14.5 mgd with peak pumping capacity up to 42 mgd. The team completed the design with an aggressive schedule from inception to bidding in eight months, successfully meeting all major design schedule milestones.



Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible
2018	\$7.75M	\$945K

TEC Professional Services Questionnaire

PROJECT NO. 7	
<p>Project Name, Location and Owner's contact information: Walnut Street Trunk Sewer Replacement Jacksonville, Florida</p> <p>Jacksonville Electric Authority, Beth DiMeo, PE, WWW System Delivery & Collection 21 W Church Street, Jacksonville, FL32202 904.665.8139, dimeea@jea.com</p>	<p>Nature of Firm's Responsibility See below</p>

A gravity sewer built in the 1950s received a new lining and another chance to provide reliable service to the area. Mott MacDonald was selected to perform the condition assessment, flow capacity, design, permitting, bidding, and construction services to rehabilitate 3,800 lf of 60-inch gravity trunk sewer.

Several sinkholes in 2015 caused JEA to inspect the sewer, which revealed deterioration of the pipe interior and in 2016, the sewer experienced partial collapse. As a result, it was rated by JEA as the 6th highest priority project based on its criticality, historical repairs, and recent CCTV inspection.

The project includes evaluating and implementing a gravity sewer or force main alternate pipe for the future flow of the 60-inch trunk sewer drainage basin.

Rehabilitation efforts were complex and involved determining lining methods, relocation/addition of manholes, and bypass pumping. A detailed MOT plan was required to manage the congested roadway and utility corridors and permitting with FDOT and COJ was required.



Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible
2019	\$3.5M	\$365K

TEC Professional Services Questionnaire

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

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

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

**MOTT
MACDONALD M M**

About us

Mott MacDonald is a North American based consulting engineering firm with over 70 offices in North America and staff resources of over 16,000 worldwide. Mott MacDonald has designed and managed some of the world's most prominent projects. Proud of our role in major ventures across North America, we provide comprehensive engineering services in all areas of transportation, tunnels, water, wastewater, environmental, pipeline, and utility markets. We offer public and private clients the complete range of services from planning, feasibility studies, environmental assessments, conceptual through preliminary and detailed design, to procurement, construction inspection, construction management, and full project and program management services, as well as design evaluations of existing systems and structures. Behind every successful project is a team of dedicated career – engineers, project managers, and technicians – who understand that in addition to technical excellence, success depends on sustained coordination and synergy between client, engineers, regulatory agencies, and stakeholders. Finding innovative solutions to design problems, meeting project milestones, and building cost-effective projects comes down to the skills and expertise of our Local Staff.

Capacity for timely competition of work

Our team is ready to assist Jefferson Parish with any task necessary. Our local team is backed by more than 250 regional staff though out the Southeast and more than 16,000 globally. Which means we are able to respond quickly thanks to our close proximity to the Parish, while also having the ability to support multiple projects due to the deep bench provided by our highly qualified additional staff.



TEC Professional Services Questionnaire

Location

Our local office is located at 650 Poydras Street, Suite 2550, New Orleans, Louisiana, less than an hour from Jefferson Parish. Our team can be on site to support Jefferson Parish quickly to assist with mitigating any challenges that arise.

Regional Wastewater Experience

We are confident that Mott MacDonald has a strong team of experienced wastewater professionals. For the purposes of presenting Mott MacDonald's wastewater experience and qualifications in support of the Parish's RFQ, this section will focus on the "primary areas of experience" that have specific application to Jefferson Parish's envisioned improvements and upgrades to its collection, biosolids handling, treatment and disposal. Our team's strong local knowledge of Jefferson Parish's infrastructure, programs and goals, combined with our extensive corporate experience in evaluating, designing, permitting, and overseeing projects throughout the U.S. makes us especially qualified to provide the requested professional services for Jefferson Parish.



Pumping Stations and Hydraulic Structures

Wastewater pumping facilities are essential elements of collection systems, wastewater treatment plants, and wet weather temporary storage systems. To operate over a large range of flows, pump stations often need built-in flexibility—sustaining energy efficiency, minimizing operational and maintenance requirements, and optimizing facility useful life. Adding to those critical issues are the aesthetics of building appearance (where applicable) and odor controls, which can often be the most challenging elements of pump station siting, design, and operation. Mott MacDonald has produced hundreds of designs that have been built and operated for decades. Many have delivered several decades of continuous service before mechanical upgrades were required. Our facilities range in capacity to more than 250 MGD.



Mott MacDonald addresses the full suite of operational issues—hydraulic, heating/ventilation, electrical, and SCADA—when developing wastewater pumping systems. Mott MacDonald uses state-of-the-art analysis methodologies, which incorporate all aspects of physical, hydraulic, and energy issues into comprehensive analyses—including physical hydraulic modeling—from the onset of any pump station project. All Mott MacDonald pump stations are designed to satisfy the client's basic flow and hydraulic requirements, while focusing on minimizing the capital costs, optimizing energy efficiency, and satisfying facility performance objectives. For any range of design flows, Mott MacDonald can deliver projects using pre-fabricated stations or one-of-a-kind customized facilities that incorporate screening, comminutors, disinfection, and/or odor controls. Hydraulic structures in sewage conveyance and processing require Mott MacDonald's unique blend of technical design and analytical skills. Our engineers have built critical hydraulic facilities to split, measure and convey sewerage. We perform sophisticated, dynamic computational evaluations, pilot testing, and/or physical modeling to address transient pressures, air entrainment, and odors that can often accompany sewage conveyance systems.

TEC Professional Services Questionnaire

Wastewater Treatment

Throughout our existence, Mott MacDonald has been a leader in wastewater treatment and management facilities. The performance of our facility designs—some of which have been in place for more than 40 years—are “living” demonstrations of Mott MacDonald’s focus on delivering solutions that work for our clients—reliably, cost-effectively, and sustainability. Over the years, wastewater facility assessment, design, construction, and operation have grown more sophisticated and complex. From early systems with no screening and grit removal to some of the more equipment intensive fine screening and grit removal systems incorporated in today’s designs, Mott MacDonald has delivered tailored solutions to meet our clients’ needs. Mott MacDonald recognizes the importance of capitalizing on our clients’ wastewater assets to optimize potential energy and chemical recovery. To implement these strategies, Mott MacDonald maintains a cadre of dedicated professionals who have made nationally recognized contributions to the wastewater scientific community. These experts sustain Mott MacDonald’s culture of continuous improvement, fostering OUR state-of-the-art scientific and pragmatic technical skills.

Our technological approach utilizes the latest software tools (BioWin, computational fluid dynamics, BIM/ 3D design) to achieve the balance among energy use, process complexity, effluent quality reliability, ease of operations, sustainable odor control, and biosolids practices, as well as system flexibility to meet the ever-changing regulations of the industry.



Instrumentation, Control, And SCADA

Modern water and wastewater treatment control systems are becoming increasingly complex, requiring the integration of smart field devices, programmable logic controllers (PLC), computers, networks, databases, and other high-technology equipment with systems operations. Remote connectivity via internet, cellular networks, or radio frequency have become necessities for efficient utility operations. Our Automation, SCADA, and Information Technology (IT) specialists excel in creating system architectures that support this level of complexity while ensuring process optimization and system integration for the water marketplace.

Mott MacDonald SCADA specialists evaluate existing systems, design and configure software and human interface systems, and create transition strategies. Our services include: design, construction management, equipment pre-purchase process, software integration, and startup. If desired, Mott MacDonald can provide ‘turn-key’ services—design, procure, install, set-up, and validate performance—for comprehensive SCADA systems.

TEC Professional Services Questionnaire

Biosolids Management

Complex regulatory, political, and public issues make the management of biosolids a substantial challenge for wastewater utilities. Additionally, the cost of managing biosolids is significant, typically ranging from 25 to 50 percent of a utility's total wastewater treatment costs. As costs rise and regulations become more restrictive, wastewater utilities continue to look for ways to improve the efficiency of managing their biosolids.

Mott MacDonald works with communities across North America to plan and design biosolids treatment facilities that meet the unique needs of each community. Past projects have included all facets of biosolids management, including thickening, stabilization, dewatering, transport, and disposal. Internationally, our experts have been at the forefront of the planning and design of regional biosolids management facilities that utilize enhanced anaerobic digestion processes. We have implemented successful plans using all final disposal methods: landfills, composting, land spreading, and incineration. These advanced facilities have resulted in improved stabilization, reduced biosolids volumes, and increased methane production that can be used for energy generation.

Mott MacDonald understands the importance of delivering sustainable solutions for biosolids management and has a proven track record for delivering projects that meet the unique needs of each facility. Recent relevant biosolids related projects have included two-stage aerobic digestion at the Cities of Marianna and Panama City, both of which already had belt press dewatering systems, designed earlier by Mott MacDonald staff members. Mott MacDonald has also designed sludge dewatering facilities at the Bonifay, Florida plant utilizing screw presses which have recently been constructed and commissioned and are currently finalizing design of centrifuge dewatering for Lake City, Florida.

Collection, Interceptor and Outfall Systems

The firm is very experienced with the construction requirements and the practical considerations that must be incorporated into the design effort when installing sewer piping systems. The firm has extensive experience in the design and construction elements of various large diameter sewer systems (from 8-inch to over 102-inch diameter) constructed through areas constrained by extensive networks of highways, existing utilities and storm sewers.

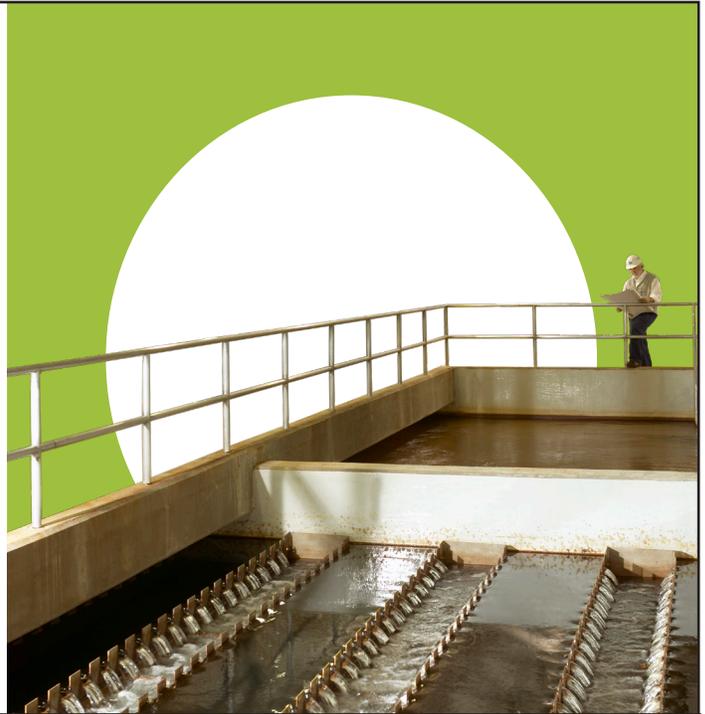
Additional experience with the New Orleans Sewage & Water Board

To further demonstrate our more local sewer experience we have provided a list of recent projects our local team has completed for the New Orleans Water & Sewage Board.

- LTO D: 4,000 LF 8"-12" gravity sewer design, CA & inspection
- West End E: 2,400 LF of 8"-12" gravity sewer design, CA & inspection
- Bourbon: (PH I: 900 LF CIPP, 10 Point repairs ; PH II: 375 LF CIPP, 1 point repair)
- SWB Waterline Replc Program - FEMA Sewer RI: (one contract, multiple task orders)
- RR195: 4000 LF 8"-10" gravity sewer inspection
- RR196: 1520 LF LF 8" gravity sewer & 1875 LF 8" CIPP inspection
- RR197: 2400 LF 8"-12" gravity sewer inspection
- RR198: 1940 LF 8"-12" gravity sewer inspection
- RR156: 2400 LF 8" gravity sewer inspection
- RR157: 2300 LF 8"-18" CIPP inspection
- RR161: 850 LF LF 8" gravity sewer & 300 LF 8" CIPP inspection

How Mott MacDonald Makes the Difference

Behind every successful project is a team of dedicated professionals — engineers, project managers, environmental scientists, designers, and technicians—who understand that in addition to technical excellence, success depends on sustained coordination and synergy between clients, engineers, regulatory agencies, and stakeholders. Finding innovative solutions to design problems, meeting project milestones, and developing cost-effective, sustainable projects comes down to the skills and experience of our people. Mott MacDonald offers our clients superior resources to accomplish their project goals. We have the expertise and depth of an international company while maintaining the high level of customer service and attention to quality associated with smaller firms. We've built strong, lasting relationships with clients by putting them first and ensuring the highest standards of professional ethics in everything we do.



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

Signature:  **Print Name:** Katie Parker, PE

Title: Senior Vice President **Date:** March 25, 2022

TEC Professional Services Questionnaire

Proof of licenses

12/13/21, 2:16 PM

[Print Lookup Details](#)

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

Name: Mott MacDonald, LLC
Public Address: Ms. Karen Marcotullio- Legal Dept.111 Wood Avenue South
Iselin, New Jersey 08830

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0003450	Active	04/18/2006	09/30/2022	Mr. Kendall Lyle Kilpatrick # PE.0031110 - Active ; Mr. Mark Andrew Tompeck # PE.0040384 - Active

TEC Professional Services Questionnaire



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Phone (225) 925-6291
www.lapels.com

Ms. Elizabeth Burck Guiza

License/Certificate Type - Number

PE.0039531

Expiration Date

09/30/2023

Status: **Active**



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Mr. Many Marshall Heymann

License/Certificate Type - Number

PE.0035554

Expiration Date

09/30/2022

Status: **Active**



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Ms. Lila Jean Lasecki

License/Certificate Type - Number

PE.0044145

Expiration Date

03/31/2022

Status: **Active**



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Mr. Austin Michael Kittok

License/Certificate Type - Number

PE.0045850

Expiration Date

03/31/2024

Status: **Active**



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Ms. Bailey Nichole Favaloro

License/Certificate Type - Number

EI.0034250

Expiration Date

03/31/2024

Status: **Active**



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Mr. Conner Bryan Wick

License/Certificate Type - Number

EI.0034873

Expiration Date

09/30/2023

Status: **Active**



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Mr. Andrew Kent Gibbs

License/Certificate Type - Number

PE.0045679

Expiration Date

09/30/2023

Status: **Active**



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Mr. Lowry Jay Denty

License/Certificate Type - Number

PE.0038440

Expiration Date

03/31/2022

Status: **Active**

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www.mottmac.com