

Submitted to
Washington Parish

Washington Parish:

Stand-by Debris Monitoring and Recovery Services 2012-2015
MWH Americas – Louisiana State License No. 28316
January 11, 2012



BUILDING A BETTER WORLD



BUILDING A BETTER WORLD

January 11, 2011

Washington Parish Government
Attn: Leo Lucchesi
Director - DPW
909 Pearl Street
Franklinton, LA 70438

RE: Washington Parish – RFQ / Proposal for Management and Monitoring of Declared disaster Related Debris Removal Services 2012 through 2015 Hurricane / Storm Event Seasons

MWH Americas, Inc. (MWH) is pleased to submit our Proposal to the Washington Parish Engineering and Public Works Department in response to the request for proposals for Pre-Position RFP-Debris Monitoring. The contents of this letter and the attached proposal sections, as listed in the RFP, describe in detail, our commitment, capability, and availability to perform the required scope of services, including an organizational structure to support implementation. Key qualifying characteristics of MWH's proposed team are listed below:

- **DISASTER-RELATED AND DEBRIS REMOVAL EXPERIENCE** – MWH and team members provided emergency management services for debris removal and rebuilding efforts following Hurricanes Katrina and Rita, including clients such as US Army Corps of Engineers, N.O. District; City of New Orleans, and Cameron Parish. In fact, MWH's tracking and reporting tools, implementation strategies and lessons learned from response efforts in Louisiana parishes have been solicited and applied to response efforts to recent flooding and earthquakes in Australia and New Zealand and the Alabama Tornados.
- **FEMA / CDBG GRANT REPORTING EXPERIENCE** – Following Hurricanes Katrina and Rita, many of MWH's program, project and construction management efforts in Louisiana and along the Gulf Coast have included close coordination and reporting requirements with FEMA, CDBG, GOHSEP, as well as other federal and state regulators. This includes the debris and rebuilding efforts in Cameron and Orleans Parishes in Louisiana as well as in Hancock and Harrison Counties in Mississippi.
- **SUPPORTING ECONOMIC HEALTH WITH LOCAL TEAMING AND PROCUREMENT** – Our team consists of local companies and staff with a history of contractual relationships with the Parish, who are residents of Louisiana and that are committed to the rebuilding of our state. Also, local procurement and staffing allows Washington Parish and parish residents a hand in recovery and helps maintain a healthy economic stamina.

For the Washington Parish Management and Debris Monitoring needs, we have assembled a team that has performed these services in and around Washington Parish and has decades of south Louisiana project experience. Teaming partners proposed for Debris Monitoring activities include N-Y Associates, Inc. (N-Y); Pinnacle Engineering; and Royal Engineers & Consultants, LLC (Royal) – our long-time teaming partners on many similar projects. MWH has the right people, tools, and experience to successfully deliver the required services with quality, speed, and in accordance with the Parish's requirements.

MWH Team will staff this program locally, with key personnel in our New Orleans, Baton Rouge, and Covington offices. Our Team includes 100 experienced people in the local area and can call on staff from our regional offices in Texas and Florida, if needed. In addition, our Team can tap into the expertise of over 7,000 global MWH personnel. MWH has numerous qualified individuals that can be quickly mobilized on receipt of the Notice to Proceed to effectively supplement Parish resources in managing and monitoring Parish-wide debris removal and disposal efforts. Our plan is to provide local staffing and a flexible plan that can quickly adjust as the program workload changes. MWH intends to be bound to the billing rates disclosed in the attached submittal and will not need to complete any corporate expansion in order to handle the service.

As Location Manager of MWH's New Orleans Regional Operations, I will serve as Principal in Charge of this project. Our proposed Project Manager, Susan Nolan, will be the primary point of contact for technical clarifications for this proposal. Ms. Nolan is an accomplished and effective project manager with more than 28 years of professional experience, the past 11 with MWH. Ms. Nolan will be supported by an outstanding group of local key team members, who have expertise in the successful execution of similar programs, and have FEMA public assistance process experience. Contact information is as follows:

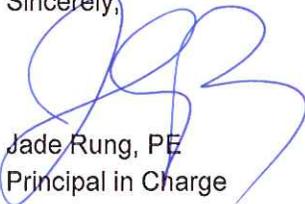
The MWH Team has historical and recent project experience working for the Washington Parish and multiple disaster response projects in Louisiana – many with tasks similar to those required by the Washington Parish Engineering and Public Works Department. The depth of experience on the MWH team includes relevant areas such as:

- *Program and project development*
- *Environmental records review*
- *CDBG applications and grant management*
- *Rapid project mobilization and start-up*
- *FEMA documentation and reporting requirements*
- *Quality assurance (QA) inspection and monitoring*
- *Scheduling and data management*
- *Tracking quantities, and managing costs and billings for FEMA reporting and reimbursement*
- *Coordination with federal, state and local government agencies*
- *Coordination with multiple Parish departments*
- *Debris removal monitoring and disposal management*

Our local knowledge of Washington Parish and familiarity with the required scope of services position our team as the most qualified to achieve the goals and objectives of the Parish for this project.

MWH appreciates the opportunity to submit this proposal, and should the need arise we hope to assist the Parish on this critical project.

Sincerely,



Jade Rung, PE
Principal in Charge

Prior Experience

MWH and all of our team members have successfully completed projects requiring similar services to the work defined in the Washington Parish Debris Management In Support Of Emergency Operations RFP. The projects summarized on the following pages demonstrate MWH's ability to successfully execute the following critical components of a disaster management and recovery services effort:



- Management of debris removal efforts
- QA inspection of contractor work
- Ability to mobilize large numbers of qualified staff in a short amount of time
- Outfitting staff with all necessary personal protective equipment
- Providing necessary food, water, fuel, restroom and lodging facilities for staff under adverse conditions
- Providing GIS tracking and other records in an acceptable format to facilitate invoicing and FEMA reimbursement
- Keeping clear and concise records of daily work activities

Additional project examples beyond those shown in this proposal can be provided to the Parish if desired.

Emergency Debris Mission Management

City of New Orleans Department of Sanitation

Length of the contract: September 2005- 2009

Disaster(s): Hurricane Katrina and Hurricane Rita

Debris Quantity: 14,000,000 cubic yards (est.)

A brief summary of the work

Following Hurricane Katrina and its aftermath, the City of New Orleans was left with a tremendous amount of debris caused by the high winds and flooding. The City had to immediately initiate debris clearing, removal, and reduction measures as part of the City's Debris Removal Mission in order to clear access on roadways for rescue and recovery crews. The City's Department of Sanitation (DOS) had primary responsibility for coordinating debris removal and disposal activities following the storm.

Key Experiences

- ✓ Post-hurricane debris removal
- ✓ Overall management of debris mission
- ✓ MWH Debris Mission Manager

The DOS contacted MWH on September 4, 2005 for assistance in the overall supervision, management, and engineering support of the debris removal mission. At that time, the DOS had only two employees available within the City. MWH provided the DOS with an overall Debris Mission Manager, Susan Nolan, PE, to assist with the numerous responsibilities that were required to coordinate and manage the enormous debris removal and disposal effort. Some of the tasks performed by MWH in support of the DOS included:

- Preliminary Damage Assessment—required to develop initial debris estimates, identify critical facilities, and prioritize key routes.
- Debris Clearance Operations—utilizing local contractors.
- Debris Removal and Disposal Operations—deciding where to dispose of the debris (e.g., utilization of Temporary Debris Storage and Reduction sites, utilization of privately owned or publicly owned local landfills, etc.); deciding if volume reduction or other processing was required (e.g., should debris be burned, and how; should debris be ground into mulch; should debris be recycled); and deciding the type of contracts to use for the various services needed.
- Temporary Debris Storage and Reduction (TDSR) Sites—analysis and decisions regarding site ownership, site size, site location, testing (air quality testing; ash, soil and groundwater testing), and site closeout procedures.
- Volume Reduction Methods—analysis and decisions regarding utilization of one or more volume reduction methods, such as by burning (e.g., controlled open air burning, air curtain pit burning, portable air curtain burner), by grinding and chipping, or by recycling (e.g., metals, soil, construction and demolition materials, wood).
- Preparation of Debris Management Plan.
- Preparation of Demolition Plan.
- Attendance at Debris Status Meetings.

- Debris Mission Manager and representation of the City at the Emergency Operations Center.
- Curbside Pick-up—coordination of issues related to public education and removal of disaster-related debris.
- Removal of Debris from Private Property—coordination of issues related to private property debris removal.
- Emergency Response Activities Related to Hazardous Materials—planning removal, disposal and special handling operations for household, commercial and industrial hazardous and toxic waste.
- Debris Removal and Disposal Contract Monitoring.
- Coordinating with USACE, State and FEMA personnel on specific contract schedules of execution.
- Communicating priorities to FEMA through state Public Assistance Officer.
- Establishment of process for recouping insurance proceeds.
- Obtaining Rights of Entry (ROE) and hold harmless agreements.
- Verifying property ownership.
- Forwarding executed ROE forms to USACE.

MWH continues to assist the City with all tasks and services required for the enormous Debris Removal Mission.

These services extended substantially beyond the actual debris removal field activities (in which MWH mobilized 65 QA inspectors under another contract) but were critical to the ability of the City to properly respond to the post-Katrina emergency conditions in a timely and cost-effective manner.

Contact person: Veronica White, Director (Former)

1300 Perdido Street, New Orleans, LA 70112

Telephone number: (504) 658-3800

Storm Drain Debris Removal and QA Inspection Services

City of New Orleans Department of Public Works

Length of the contract: November 2005 to December 2005

Disaster(s): Hurricane Katrina

Debris Quantity: 31,000 cubic yards

A brief summary of the work

MWH was contracted by the City of New Orleans Department of Public Works (DPW) to coordinate and manage storm drain debris removal efforts in the City of New Orleans. This project was performed in response to Hurricane Katrina. Of particular concern for the Department of Public Works was the debris blocking catch basins and other parts of the storm drainage system. DPW officials had to assure that the storm drainage system worked effectively and did not cause further flooding for residents seeking to return to New Orleans. This \$34M project was performed over a 36-day time period.

MWH quickly mobilized and was able to provide 30 personnel and over 100 vacuum trucks staffed with two or three man crews immediately upon award of the project. As a result of MWH's rapid mobilization and response, progress in debris removal occurred in a very short period of time. MWH's comprehensive approach assured that storm drain cleaning occurred to the standard set by the DPW.

Key Experiences

- ✓ Post- hurricane debris removal
- ✓ Overall management and QA inspection
- ✓ Quick mobilization
- ✓ Truck certification
- ✓ Haul ticket preparation
- ✓ Debris quantity documentation
- ✓ Debris eligibility determination
- ✓ Debris disposal site monitoring
- ✓ Sampling and testing for hazardous materials
- ✓ GIS mapping

MWH's action steps for this project included:

- Mobilization of 30 QA inspectors within 12 hours to provide QA inspection services;
- Development and implementation of a staffing plan to effectively deploy and manage the large group of QA inspectors;
- Prioritization of sectors for cleaning efforts;
- QA inspection of up to 100 debris removal trucks per day (4,500 tons of debris total);
- Documentation of the number of storm drains cleaned, completion of inspection records, and tracking the cumulative progress of the cleaning effort;
- Debris sampling and analysis for characterization purposes;
- Identification of appropriate disposal site location based on the debris characterization results;
- Development of a GIS database to provide the DPW with digital access to QA inspection reports and other project data

The well-documented QA inspection records allowed the DPW to verify work performed by cleaning contractors. Even though this work was performed under adverse conditions, no lost time accidents occurred on this project.

Contact person: John Shires, Director (former)

1300 Perdido Street, New Orleans, LA 70112

Telephone number: (504) 565-6844

Emergency Debris Removal Coordination and Inspection Services

City of New Orleans Department of Sanitation

Length of the contract: September 2005- November 2005

Disaster(s): Hurricane Katrina and Hurricane Rita

Debris Quantity: 14,000,000 cubic yards (est.)

A brief summary of the work

Following flooding associated with Hurricane Katrina's landfall, the New Orleans Department of Sanitation (DOS) contracted with MWH to coordinate and manage \$1.5M of efforts associated with debris removal over a 10-day time period and augment DOS staff. For this project, MWH assessed and described the required work effort necessary for the DOS, and from this initial evaluation, MWH developed a Scope of Work and corresponding cost estimates for the DOS' use in obtaining FEMA grant funding for this Category A (emergency) work. MWH also assisted the DOS in completion of the required FEMA grant funding and worksheet documentation.

MWH mobilized 65 QA inspectors within 24 hours to provide QA inspection services, and in a leadership role, assisted the DOS in prioritizing debris removal zones and directing QA personnel and debris removal crews. In this capacity, MWH developed staffing plans for the debris removal inspection efforts and deployed the initial inspection teams to the field. As emergency staffing needs arose and changed, MWH modified the emergency baseline staffing plan and deployed new resources.

MWH performed QA inspection of over 100 debris removal trucks per day, documented debris load volumes, determined eligibility of debris, completed load tickets, and tracked the cumulative debris removal progress. The work documentation data generated by over 100 debris removal crews working 12-hour days, 7 days per week was collected and organized daily within a Geographic Information System (GIS). The GIS allowed for the mapping and publishing of progress reports following a "Just-In-Time" philosophy available through the www.ReviveNOLA.com website.

MWH also developed QA inspection procedures and forms and trained field inspectors in QA activities and health and safety practices. MWH provided an orderly, well-planned approach for the QA of the debris removal and truck certifications. We completed a well documented set of QA inspection records and data management methods for the work performed. MWH's ability to train, deploy, and manage dozens of QA inspectors met a critical, immediate need following the storm.

Contact person: Veronica White, Director (Former)
1300 Perdido Street, New Orleans, LA 70112

Telephone number: (504) 658-3800

Key Experiences

- ✓ Post-hurricane debris removal
- ✓ Overall management and QA inspection
- ✓ Quick mobilization
- ✓ Truck certification
- ✓ Haul ticket preparation
- ✓ Debris quantity documentation
- ✓ Debris eligibility determination
- ✓ Debris disposal site monitoring
- ✓ GIS Mapping

Alabama Tornado Debris Removal

Length of the contract: April 2011- September 2011 (Estimated)

Disaster(s): Tornado

Debris Quantity: 3.5 million cubic yards

On April 27, 2011, a disastrous storm system moved across the state of Alabama with over 300 twisters devastating the South and leaving a path of destruction through seven states, killing more than 300 people. The United States Army Corps of Engineers (USACE), Mobile District awarded MWH with a \$1.8 million task order to provide QA services in support of the tornado cleanup in Alabama. The USACE has contracted with MWH to provide 50 QA team leaders and inspectors on-site in various locations across northern Alabama. The contract required the first thirty-five inspectors to be on-site within the first 72 hours of award of the task order. Additional inspectors will be on-site within 72 hours from notification from the USACE.

MWH is utilizing staff resources, as well as several subconsultants, all of whom are small businesses experienced in disaster response services.

Royal Engineering is a subconsultant to MWH for this project and their mission currently consists of QA services. Their task includes monitoring a portion of more than 3.5 million cubic yards of debris using the current Automated Debris Management System (ADMS) for recording of debris loads. As well as roving the debris grid; monitoring the loading of debris haulers to assure for the best quality possible; and monitoring from the debris field towers to assure quality and quantity of loaded debris haulers.

Contact person: Hubert “Bo” Ansley
P.O. Box 2288, Mobile, AL 36628-0001

Telephone number: 251-690-2505

Key Experiences

- ✓ Post-tornado debris removal for over 300 twisters in Alabama
- ✓ QA monitoring
- ✓ Quick mobilization, within 72 hours of task order award
- ✓ Debris Management System

N-Y (N-Y) Associates Experience in LA

Project Name & Location	Nature of Firm's Responsibility	Project Description	Completion Date (actual or estimated)
Mahalia Jackson Theatre of the Performing Arts, New Orleans, LA	Design, bidding and construction administration for FEMA funded hurricane damage replacement facility.	Design, bidding and construction administration for \$30 million of hurricane damage repairs, hazard mitigation and improvements which included: complete architectural finishes, structural, and mechanical and electrical equipment replacement and/or extensive renovation and repair.	2008
Municipal Auditorium, New Orleans, LA	Hurricane Katrina Damage Assessment for FEMA funded project.	Report which identified Flood Damage, Wind Damage and certain Hazard Mitigation items with preliminary construction cost estimates.	2011
Guste Elementary School Louisiana Dept. of Education Recovery School District New Orleans, LA	Design, bidding and construction administration for a new FEMA funded facility.	Design, bidding and construction administration for hurricane damage repairs and improvements to a 72,376 gsf school included replacement of all exterior windows, roofing, HVAC, interior electrical and lighting, ceilings, restroom plumbing, interior and exterior painting and a new science lab.	2009
Henry C. Schaumburg Elementary School Louisiana Dept. of Education Recovery School District New Orleans, LA	Design and construction for FEMA funded facility.	Design and construction administration for a) the removal and replacement of 43 exterior windows and 40 exterior doors, including several aluminum storefront doors and b) the replacement of the HVAC system in Building 2.	2011
St. Bernard Parish Middle School St. Bernard Parish, LA	Design, bidding and construction for FEMA funded facility.	Design, bidding and construction administration for hurricane damage repairs for a 100,000 gsf high school which was converted to a middle school in Chalmette, LA.	2009

Royal Engineers & Consultants, LLC (Royal) Experience in LA

Project Name & Location	Nature of Firm's Responsibility	Project Description	Completion Date (actual or estimated)
Post Hurricane Katrina Emergency Storm Drain Cleaning, City of New Orleans, LA	Emergency storm drain facility cleaning	Royal was a member of the team that provided emergency storm drain facility cleaning for the City of New Orleans under the authority of the City of New Orleans Department of Public Works. Key elements of the project include coordination and management of work efforts to clean drainage catch basins and pipelines following Hurricane Katrina as part of the City's recovery efforts. The team was responsible for all project oversight, including mobilization of up to 100 vacuum trucks from around the country for cleaning efforts; utilization of these vacuum trucks to clean drainage facilities; providing maps for drainage facilities to be cleaned; setting up a temporary disposal area at a location approved by the City; providing QA/QC services for the cleaning efforts utilizing up to 30 QA/QC staff including support from Royal Engineers; monitoring of the temporary disposal area; performing sampling and testing to screen for hazardous materials; providing loader and trucks for removal of debris from the temporary disposal area and transfer/disposal of this debris to a properly licensed landfill; and tracking of the work performed in GIS (executed by Royal Engineers) by street name, providing maps showing drainage facilities cleaned. This work was performed on a 12 hour per day/7 day per week basis.	2005
Surgical Demolition of Hurricane Damaged Structures, New Orleans, LA	Demolition management and inspection of hazardous structures	Following Hurricane Katrina, the City of New Orleans determined thousands of buildings to be public safety and health hazards, and many were designated for demolition. The demolition of some of the structures created dangerous circumstances because of the close proximity to other structures or public thoroughfares. Royal was tasked with assuring that the demolition of these structures would proceed without collateral damage to adjacent structures, which included both public and private	2007

		<p>property, while ensuring the safety of operating crews and the public.</p> <p>For this project, Royal inspected hazardous structures to determine the level of structural integrity of each building. If the inspection revealed that the building could present a significant hazard to the surrounding property during the demolition process, Royal performed a structural analysis of the building and recommended mitigation procedures for the safe demolition. The mitigation recommendations included such procedures as rebuilding some structural components of a building before demolition, wrapping the buildings with wire cable before demolition, and recommending specific demolition procedures and safety precautions.</p> <p>Before each hazardous demolition, Royal prepared a detailed demolition plan for the building. The US Army Corps of Engineers reviewed and approved each plan before demolition. Royal prepared hazardous demolition plans for approximately 250 properties. By following the recommendations in each plan, the demolition contractor was able to demolish each of the structures successfully, with minimal collateral damage to adjacent properties. There were no accidents or injuries sustained from any of the demolition operations. The project was completed on schedule and within budget.</p>	
--	--	---	--

Pinnacle Engineering Experience in LA

Project Name & Location	Nature of Firm's Responsibility	Project Description	Completion Date (actual or estimated)
Boston Street Sidewalk, City of Covington, LA	Design and Construction Administration	Design and construction administration for a city Beautification Project	2011
St. Charles Parish East Bank & West Bank Multi-use Paths, St. Charles Parish, LA	Design and Construction Administration	Design and construction administration for a DOTD Enhancement Project/United States Army Corps of Engineers	2010
City of Covington Wastewater Treatment Plant Expansion, City of Covington, LA	Design and Construction Management.	Design and construction management of a new 0.875 mgd treatment train for existing City of Covington treatment plant – Prepared O & M manuals.	2008
Picayune Wastewater Treatment Plant Expansion, Picayune, MS	Project Management	Project management for the construction of a new 2.4 mgd activated sludge wastewater treatment plant.	2009
City of Covington Lift Station Improvements City of Covington, LA	Project Management and Client Coordination	Project management and client coordination for the preliminary phase, design phase and construction administration phase for improvements to three (3) influent lift stations.	2008
Bogue Chitto State Park, Washington Parish, LA	Design	Designed the site layout, drainage and auxiliary roads for a new 1800 acre state park. Designed the water supply and distribution system, as well as the wastewater collection and treatment system (approx. 35,000 gdp). Provided construction administration.	2009

Familiarity and Experience with FEMA

The MWH personnel we have proposed for the Washington Parish program are well-versed in the laws, guidelines, and standard operating procedures related to the FEMA Public Assistance Program, such as:

- Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended
- FEMA Public Assistance Regulations, 44 CFR Parts 13 & 14
- FEMA Public Assistance Guide (FEMA-322, June 2007)
- FEMA Public Assistance Policy Digest (FEMA-321, January 2008)
- FEMA Public Assistance Cost Estimating Format for Large Programs Instructional Guide (September 2009)
- Reimbursement Procedures for FEMA Public Assistance
- FEMA Public Assistance Policy Reference Manual (9500 series)
- FEMA Public Assistance Standard Operating Procedures
- FEMA Public Assistance Applicant Handbook
- State of Louisiana Debris Management Plan

Since 2005, we have developed experience in the following activities within the FEMA Public Assistance guidelines. Note that the majority of the work we have done within FEMA-reimbursable programs is Program Management for a Parish for the delivery of multiple projects and Debris Management.

- Originating projects and preparing supporting documentation for PWs and versions
- Preparation of appeal documents
- Implementing work scoped in PWs
- Direct negotiations with FEMA on scope and payment issues
- Design and design management
- Inspection and assessment
- Construction and construction management
- Tracking and maintenance of all PW-related documentation
- Full support for audits associated with PWs
- Closeout

Some of the additions we make in our typical program management activities when working on a FEMA/MEMA-reimbursable program include the following:

- Because FEMA staff tend to rotate assignments frequently, early coordination with FEMA decision-makers and careful documentation of decisions is crucial.
- Early and consistent identification of project elements that qualify for FEMA reimbursement is needed. Should additional project elements be requested by for purposes of infrastructure consistency or modernization that are not reimbursable, those non-reimbursable project elements are tracked separately through the entire project lifecycle. Note that FEMA will pay for upgrades that are necessary to meet specific requirements under current codes and standards, provided that certain conditions are

met. We are also familiar with FEMA/MEMA's Special Considerations that must be addressed on each PW.

- As projects advance through their lifecycles, versioning of the PWs and supporting documentation is important. MWH will track and document all decisions that affect the scope of a project and will practice good scope control and communication.
- In addition to tracking eligible project elements, the project scopes are tracked against the PW scopes in order to facilitate timely and accurate versioning of PWs.
- Cost estimates, contract documents, field logs, and other project documentation must be capable of standing the test of audit. MWH's document control and data management systems have been specifically designed and proven to meet FEMA requirements. For large recovery projects, overruns on projects are reimbursable provided that sufficient documentation on the cause for the overrun is provided.

MWH is very familiar with the details of the detailed paperwork needed to obtain FEMA reimbursement in a timely fashion. For example, to be in accordance with FEMA requirements, labor costs must be tracked separately by PW, equipment standby costs are not reimbursable, and certain types of contracts are not reimbursable.

MWH performed multiple recovery projects for municipalities in South Mississippi & Louisiana funded by State-level government as well as FEMA. This requires structured invoicing and back that meets FEMA's requirements as well as attention to FEMA versioning during design delivery.

MWH's Role in Program Success

MWH is well equipped to take on the role of Debris Management for Washington Parish. In this role, we offer the following advantages:

- Strong local presence and highly qualified staff
- Recent, strong FEMA Public Assistance program experience with nearby cities and Parishes.
- Recent and debris program management roles on very similar projects
- Cutting-edge program management tools to provide seamless, efficient, timely, and transparent delivery of this important program

Relevant Program Experience

The following pages contain detailed descriptions of selected programs that show our Team's experience with FEMA.

FEMA Experience Table

Project Title	Client Name	Description of Work
Emergency Debris Removal Coordination and Inspection	City of New Orleans, Department of	<ul style="list-style-type: none"> ✓ Post-hurricane debris removal ✓ Overall management and QA inspection ✓ Quick mobilization

Project Title	Client Name	Description of Work
Services	Sanitation	<ul style="list-style-type: none"> ✓ Truck certification ✓ Haul ticket preparation ✓ Debris quantity documentation ✓ Debris eligibility determination ✓ Debris disposal site monitoring ✓ Progress tracked in GIS
Sanitary Sewer System Cleaning- Debris Removal Cleaning	City of Slidell, LA	<ul style="list-style-type: none"> ✓ Contracted with the City for the cleaning of sewer lines, inspection of sewer lines via CCTV ✓ Development of rehabilitation methods for restoration of the sewerage system ✓ Over 506,000 linear feet (LF) of sewer lines were cleaned; over 6,000 LF of sewers were inspected via CCTV ✓ Repairs were identified and cost estimates were prepared
Roadside Drainage Cleaning - Debris Removal	City of Slidell, LA	<ul style="list-style-type: none"> ✓ Managed the debris removal and cleaning services to restore the storm drainage system to a functional state, including both subsurface pipes and surface drainage ditches. ✓ Oversaw the cleaning of approximately 4,200 catch basins and drainage manholes; 230,000 LF of surface drainage ditches; and 370,000 LF of subsurface drainage pipes.
Sanitary Sewer Wet Well Cleaning	City of Slidell, LA	<ul style="list-style-type: none"> ✓ Contracted with the debris removal and cleaning of sanitary sewer wet wells throughout Slidell. ✓ Debris was removed from forty-seven (47) wet wells.
FEMA Public Assistance – Program Management and Administration	City of New Orleans	<ul style="list-style-type: none"> ✓ Oversaw 950 Public Assistance Grants ✓ Audit and closeout services ✓ Invoice reconciliation ✓ Contract management ✓ Payment / reimbursement management ✓ Developed resolution strategies ✓ Identified hazard mitigation opportunities
Cameron Parish Disaster Recovery Program	Cameron Parish, LA and Royal Engineers & Consultants, LLC	<ul style="list-style-type: none"> ✓ Partnered with Royal Engineers & Consultants, LLC (Royal) to assist in managing and expediting the repair and reconstruction of underground utilities (water and wastewater) police and fire stations, streets, recreation centers, court buildings, museums, libraries, parks, and other projects as part of the post-Rita rebuilding effort. ✓ With the planning process completed and funds

Project Title	Client Name	Description of Work
		<p>materializing, Cameron Parish (Parish) contracted with Royal to put the staffing and expertise in place to ensure that the rebuilding project moved as efficiently as possible.</p>
Sewer System Evaluation and Rehabilitation Program (SSERP)	Sewerage and Water Board of New Orleans	<ul style="list-style-type: none"> ✓ Program manager for this comprehensive evaluation and rehabilitation program. ✓ Program was initiated in response to an USEPA consent decree mandating repairs to the City's aging system. ✓ Oversees and coordinates all design and construction activities related to the program with other on-going construction programs. ✓ Program management tasks include a comprehensive evaluation of the existing system, development of cost-effective solutions, design and construction management of recommended solutions, and a public participation program.
South Louisiana Submerged Roads Program	Louisiana DOTD	<ul style="list-style-type: none"> ✓ Led the road repair program to restore the underground utilities (water, wastewater, and gas), as well as roads that were damaged as a result of Hurricane Katrina and Rita in south Louisiana. ✓ Program began in July 2007 by Louisiana DOTD, and is being funded by the emergency federal funding from the Emergency Relief Program of the Federal Highway Administration (FHWA).
Water Distribution System Reconnaissance / Assessment, Sewerage and Water Board of New Orleans	Sewerage and Water Board of New Orleans	<ul style="list-style-type: none"> ✓ Provided reconnaissance services throughout the water distribution system to identify water leaks and document the field investigations. Based on inspection results ✓ Identified nearly 5,000 water leaks. The leaks were documented and work order forms were provided to the S&WB to issue to repair contractors ✓ The S&WB, FEMA, and project team were provided access to mapping and published progress reports
Emergency Sewer System Assessment, Phase II, Sewerage and Water Board of New Orleans	Sewerage and Water Board of New Orleans	<ul style="list-style-type: none"> ✓ Provided reconnaissance and predesign activities for the rehabilitation of the sewage collection system for areas not inspected during the Emergency Sewer System Assessment, Phase I project ✓ Worked with the Sewerage and Water Board and

Project Title	Client Name	Description of Work
		FEMA in the development and initiation of the project
Biloxi Infrastructure Repair Program - Areas GRN1 and GRN2, Biloxi, MS	City of Biloxi	<ul style="list-style-type: none"> ✓ FEMA funded projects ✓ Design components include 32,600 linear feet of wastewater collection; the demolition of three pumps stations, and replacement of equipment and installation of an elevated platform at one pump station.
Biloxi Water Wells Repair and Mitigation Sub to BMI	City of Biloxi, <i>Sub to BMI</i>	<ul style="list-style-type: none"> ✓ BMI hired MWH to perform visual inspections of each water well facility to assess damage. ✓ MWH met with City, FEMA, and MEMA representatives to discuss the damages and determine which repairs would be reimbursed by FEMA. ✓ MWH prepared a damage description and scope of work for FEMA that was included in the project worksheet.

Statement of Qualifications

MWH is one of the Industry's premier full service construction, environmental engineering, and engineering management consulting firms with more than \$1B in annual revenue. With over 7,000 employees in more than 180 offices across the globe, MWH is a global leader in construction, resident engineering, resident inspection, and infrastructure development. MWH has ranked among the 500 largest privately-held companies in the United States, according to Forbes Magazine. In general, there are MWH staff experts in virtually every discipline supporting our work in the environmental field and all its adjacent technologies and sciences. We have built our reputation on solving complicated problems for our clients efficiently and cost effectively. MWH is known for its experience in providing program support to federal, state, and local government agencies throughout the United States and worldwide.

Ability to meet the Parish's objectives

MWH has provided Debris Monitoring support, program strategy, development, scheduling, and guidelines compliance, as well as design and inspection oversight for disaster recovery efforts to successfully repair and rebuild major infrastructure throughout Southern Louisiana including New Orleans, Jefferson Parish, City of Slidell, Cameron Parish, and other outlying areas.

As an extension of MWH's normal engineering and consulting services, we have routinely supported our clients in emergency situations from major flood events, earthquakes, and fires, to equipment and infrastructure failures. MWH also provides "on-call" emergency support services to various agencies including Federal Emergency Management Agency (FEMA) for post-disaster response support throughout the US, and for the City of Chicago, Department of Environment to coordinate emergency responses to power outages and other problems.

This experience and awareness allows us to assist with the FEMA reimbursement process in a timely, cost-effective manner, which will ensure the most efficient use of Washington Parish's time and funds.

With nearly 30 years of experience in the Gulf Coast Region, MWH has maintained our commitment to the area in the face of hurricane recovery efforts, which has ultimately provided us with in-depth knowledge and familiarity with FEMA and other local, state, and federal agency processes. This experience and awareness allows us to assist with the FEMA/State reimbursement process in a timely, cost-effective manner, which will ensure the most efficient use of Washington Parish's time and funds.

The depth of disaster recovery related experience of the MWH team includes areas such as:

- Environmental Records Review
- CDBG applications and grant management
- Program and project development
- Rapid project mobilization and start-up
- FEMA documentation and reporting requirements

- Quality Assurance (QA) inspection and monitoring
- Debris removal monitoring and disposal management
- Scheduling and data management
- Tracking quantities, and managing costs and billings
- Coordination with federal, state and local government agencies
- Coordination with multiple Parish departments

Ability to Deploy Staff Quickly

MWH has the experience, ability and capability to provide engineering and construction services for all facets of the recovery. In emergency situations, the most important criteria are speed and accurate information including assessments of events and causes. MWH will establish a Program Manager who will implement MWH's response strategy as needed, coordinate all efforts of the project team, and have the ability to reach back into the company for needed resources. This provides one point of contact and authority. In order to create a central command center to provide support to the city, parish, state and federal organizations MWH temporarily relocates a number of personnel to hurricane-affected areas. We are prepared to access these and other corporate personnel and resources as needed support the operations.

Description of the Office(s) Completing Services

MWH's offices in Louisiana have added to the corporate legacy with approximately 30 years of experience serving clients throughout Louisiana and the Gulf Coast Region. We currently have three full-service office locations in Louisiana – New Orleans, Baton Rouge, and Shreveport. MWH also has an additional 19 offices as shown in Figure 1 in the Southeast region from which we can immediately obtain additional resources to support our projects, as necessary.



Figure 1: MWH Southeast Region Offices

Project Team

MWH is uniquely qualified to perform the services required for the Debris Monitoring proposal for Washington Parish. We offer the Parish a full breadth of experience, resources and capabilities to successfully execute and complete all aspects of the project. The potential response area and quick start-up required for this project requires a team with prior experience in similar projects and access to a large pool of local resources; our team provides these to the Parish.

Team members have participated in similar projects previously, particularly in the Hurricane Katrina and Rita recovery efforts, working with numerous agencies including US Army Corps of Engineers (USACE) and the FEMA, in addition to local municipalities and counties/parishes.

In addition to MWH staff, our project team includes staff from three highly qualified Louisiana-based firms, N-Y Associates, Inc. (N-Y), Pinnacle Engineering and Royal Engineers & Consultants, LLC. The following narratives provide brief overviews of the MWH team members:



N-Y Associates, Inc. (N-Y) provides professional services in the areas of engineering, architecture, planning and Program/Project Management. Established in 1969 and has offices in Metairie, Louisiana and Biloxi, Mississippi. While the N-Y organization is large enough to offer a variety of special services, the firm also personally assists its clients from the very early planning stages of a project to the completion of production. This coupled with the firm's ability to meet schedules and adhere to budgets are some of the reasons why N-Y historically has so many repeat clients. A personal service organization is only as good as its staff. N-Y has assembled a group of skilled individuals as diverse in background as the various projects they design. Each person offers different facets of experience and knowledge, creating a forum for the exchange of ideas and the development of innovative solutions for our clients' needs.



Pinnacle Engineering is a multi disciplined engineering company. Pinnacle has offices in Louisiana and Mississippi. Our professional staff provides the diversified experience, resourcefulness, knowledge, and technical skills required to analyze and solve complex problems and to plan, design, and execute complete projects of any scope to the satisfaction of our clients. Pinnacle Engineering, L.L.C. offers comprehensive services, ranging from research, site selection, CDBG Administration and programming, to master planning, civil engineering, construction administration, project management and construction administration for municipal, community recreational facilities, commercial, institutional and industrial type projects.



Royal Engineers & Consultants, LLC (Royal) is an engineering consulting firm, based in New Orleans, specializing in construction management, inspection, public infrastructure, civil engineering design, project management, Geographical Information System (GIS), and general management and consulting services. Royal is experienced in debris removal operations, water transmission system design, sewerage collection system design, road and bridge design, program

management, construction management, land development, storm drainage and sewage pumping systems, and storm water management planning. Royal's experience includes managing various projects from initial conception through final construction and ensuring that a quality project is completed on time and within budget, while minimizing disruption to the surrounding public.

These individuals are trained and experienced in debris removal operations and are ready to carry out the Parish's directives for the project.

Since the impact of Hurricane Katrina on the Gulf Coast region, Royal has been engaged in disaster recovery operations for the City of New Orleans, USACE, and Washington Parish. Experience in these operations includes debris removal management, QA inspection, vehicle recovery, and processing, infrastructure assessment, and repair to the sanitary sewer, water distribution, and storm drainage systems, and coordination with state, and federal authorities. Royal has an established working relationship with MWH, having worked on numerous prior projects together. Royal is also a certified Service Disabled Veteran Owned Small Business (SDVOSB), a Federal 8(a) firm, and a certified DBE.

Organizational chart

The organizational chart shown (Figure 2) shows MWH's Project Manager, Susan Nolan, PE. Mrs. Nolan has significant experience in solid waste management, including debris removal operations. She will directly supervise the contractual, and administrative aspects of the contract, will serve as MWH's point of contact with the Parish should our services be required under this contract.

Our team also includes numerous individuals who can serve as supervisors/coordinators, subject to Parish review, and approval. These individuals are trained, and experienced in debris removal operations, and are ready to carry out the Parish's directives for the project.

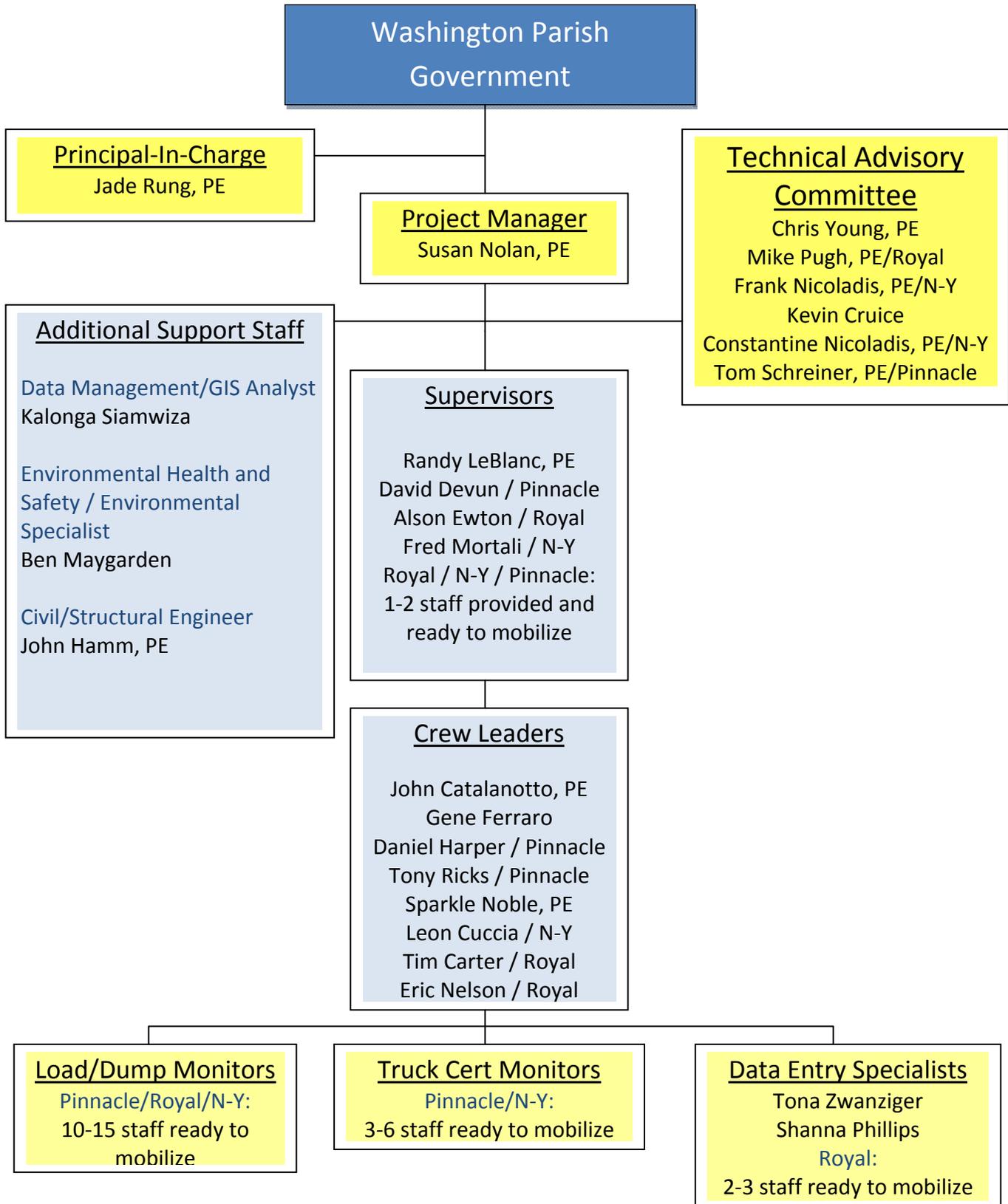


Figure 2: Organization Chart

Benefits of Working with the MWH Team

The annual hurricane season is inevitable, often times resulting in significant damage, and debris. This was especially true in the aftermath of Hurricanes Katrina (\$81B in damage), Ike (\$32B in damage), Rita (\$11B in damage), and Gustav (\$18B in damage). Parishes, and cities have become inherently better at preparing, and aligning resources prior to the devastation, but it is often the case that no matter how well you plan, you cannot plan for everything, which is why debris removal, clean-up becomes such a daunting task.



Monitoring the debris removal process, overseeing contractors, preparing documents, obtaining permits, and meeting FEMA's requirements is not an easy task. Washington Parish currently has many other day-to-day responsibilities so it should not have to fret about the clean-up progression, and how it relates to both the overall state of infrastructure, and the FEMA reimbursement process. This is why it helps to team with a firm that not only has the familiarity with the region, but also the direct experience, and resources available to properly supervise staff, and contractors, monitor, and document work progress, and coordinate with FEMA, and other federal, state, and local agencies.

The MWH team members have the resources, experience, and familiarity to deliver all of Washington Parish's needs on-time, and within budget, all the while following FEMA's strict processes to the "T."

Furthermore, it is essential – because of the sensitivity of the work as well as the need for a relatively fast start-up – that Washington Parish should be able to rely on a team member that can not only manage, and monitor the project, but also be a team member that can do so with efficiency and, effectiveness. The MWH team not only can say that we can do it, but we can prove it, with direct and applicable experience. We have a successful and proven history of partnering, and have the available resources with local knowledge and expertise to effectively monitor and ensure the project's success.



As further proof of the MWH team's success as partners we have worked together on many project teams in the Gulf Coast Region, such as the New Orleans Sewer System Evaluation and Rehabilitation Program (SSERP), and the New Orleans Storm Drain Cleaning Coordination, and Inspection Project, as well as other large recovery programs throughout Louisiana.

As a result we are able to seamlessly work together in conjunction with our clients to:

- Support and prepare bid documents for procurement
- Monitor debris clean-up, removal, and disposal
- Perform management and support duties (documentation preparation, closeout, etc.)
- Assist with FEMA reimbursement

List of equipment available for recovery projects

Depending on the magnitude and the nature of the disaster event, the MWH team has the ability, and resources to mobilize the necessary equipment to immediately respond to the disaster. MWH has access to trucks, trailers, communication, and computer equipment, and other resources to quickly and efficiently supplement Parish resources in managing and monitoring Parish-wide debris removal, and disposal efforts. The MWH team will utilize fully functional implemented data management systems, and processes already in place. These in place applications can quickly produce specific reports, and maps required for this project. MWH has developed a number of web-based tools that assist our clients in providing quick, and reliable decision making, improved communication, and cost and schedule control.

Financial Strength

MWH is a stable, privately held company with the financial resources needed to meet the obligations inherent in completing hundreds of projects worldwide each year. For decades, MWH has enjoyed consistent, planned growth, and is an example of financial strength within the environmental infrastructure engineering industry. Our solid financial position ensures that the company will endure to see every project through successful completion. Much of MWH's substantial growth over the past years can be attributed to the company's commitment to providing responsive, first-rate service to our clients. MWH is financially solvent and capable of providing services that are needed over the contract period. MWH hasn't failed to carry out any previous contracts.

Current Disaster Relief Contracts

United States:

Quality Assurance Services in Support of Tornado Cleanup in Alabama

Client: The United States Army Corps of Engineers USACE, Mobile District

The USACE, Mobile District recently awarded MWH with a \$1.8 million task order to provide Quality Assurance services in support of the tornado cleanup in Alabama. In April 2011, over 300 twisters devastated the South in a massive storm system that left a path of destruction through seven states, including Alabama.

International Contracts:

Canterbury Earthquake Recovery Management

Client: Vero Insurance Limited, 2010 – ongoing

The 7.1-magnitude Canterbury Earthquake struck the South Island of New Zealand, in particular Christchurch and the Canterbury region, on 4 September 2010, causing widespread damage and power outages in New Zealand's second largest city. Most repair and rehabilitation cost estimates fall between \$2 billion and \$4 billion. Immediately after the event, MWH engineers and staff were engaged in the initial assessment and classification of damaged buildings, especially inner-city commercial properties, and city infrastructure. Approximately two months after the main event, MWH, as one half of a joint venture with Mainzeal Property and Construction, was selected by Vero Insurance Limited to manage and coordinate the repair and rebuilding effort for more than 2,000 of their policy holders, estimated at \$250 million.

Natural Disaster Road Recovery Program (NDRRP)***Client: Queensland Department of Transport and Main Roads, 2011 – ongoing***

MWH was recently appointed by the Department of Transport and Main Roads to plan, deliver and manage road restoration for the Fitzroy region, following the heavy rainfall and associated flooding in late 2009 and early 2010. As a consequence of the flooding, damage was sustained to road pavements and shoulders, either as a direct result of erosion by floodwaters or indirectly by commercial traffic after the early reopening of transport routes to connect communities that had been cut off for extensive periods.

Management Response Plan

The MWH team has a unique understanding of this project's scope of work. Our team is experienced with performing this type of project in the aftermath of disaster events, as we have successfully executed numerous projects of similar nature. We understand the difficult and adverse conditions under which this project will likely be executed, should the Parish require our services during the term of the contract. The MWH team will best meet the needs of the Parish based upon the following relevant points:



- **Disaster-related and debris removal experience** – Team members have assisted clients in managing debris removal projects previously, particularly in the Hurricane Katrina and Rita recovery efforts, working with numerous agencies including the US Army Corps of Engineers (USACE) and the Federal Emergency Management Agency (FEMA), in addition to local municipalities and counties/parishes.
- **FEMA / CDBG grant reporting experience** – Many of MWH's program, project and construction management efforts in Louisiana and along the gulf coast have included close coordination and reporting requirements with FEMA, CDBG, GOHSEP, as well as other federal and state regulators. This includes work in Cameron and Orleans Parishes in Louisiana as well as Hancock and Harrison Counties in Mississippi.
- **Attentive to economic stamina with local teaming and procurement** – Our team consists of local companies and staff with a history of contractual relationships with the Parish, who are residents of Louisiana and that are committed to the rebuilding of our state. Also, local procurement and staffing allows Washington OHSEP and parish residents a hand in recovery and helps maintain a healthy economic stamina.

Approach and Work Plan

As the Prime Consultant for this contract, MWH has an approach to managing this project that will ensure the work is completed in accordance with the technical, quality, cost, schedule, and regulatory requirements. Our proposed project manager, Ms. Nolan, will be involved in the day-to-day technical, administrative and management components of the project activities to make sure all schedule and budget commitments are met. Her primary responsibilities as project manager will include:

- Coordinating with the Parish, as required.
- Ensuring that the required resources are assigned to the project, from MWH, N-Y, Royal and HDCA.
- Providing technical overview and specific direction to the project team.
- Scheduling and coordinating project team meetings, as required.
- Scheduling and coordinating meetings with the Parish and other agencies that may be involved with the project, as required.
- Preparing and submitting required documents and reports.

- Managing cost, schedule, and technical performance of all work.
- Ensuring successful completion of all work performed.

Successful communication between the MWH team and the Washington Parish is key to ensuring that our team meets the Parish's requirements and objectives. We recommend that the first step in creating team focus be a kickoff meeting between the Parish and our project manager. This meeting represents the first step toward opening Communications throughout the duration of the project.

Components of MWH Management Approach

MWH's approach to managing Task Order/ Retainer type projects is a 3-Step Management Approach. We propose to use this proven management approach to maintain project control and efficiently manage the project for the Parish, regardless of the actual size and project conditions. MWH aligns its management approach with the standards set forth by the Project Management Institute (PMI).

Step 1 Task Order Definition Define the requirements and develop an accurate baseline. Activities focus on tasks that position our team for successful delivery of the project according to the Parish's goals and objectives.

Task Order Receipt and Kickoff Meeting. Once MWH receives the Task Order from the Parish, we recommend having an initial kickoff meeting between the Parish and our project manager. The task order kickoff meeting is one of the key and defining moments for communication success. This meeting clearly defines the goals and objectives for the project. It also defines clearly the chain-of-command and lines of communication and authority as well as ensuring that all Parish concerns are voiced and addressed early in the project and that buy-in is achieved on project commitment to the goals and objectives.

Project Delivery Team Selection. At the kickoff meeting or immediately following, the Parish can select the desired resources from our proposed personnel. Our project manager will work with the Parish to ensure that the project is fully and properly staffed. The resources may come from MWH, N-Y, HDCA or Royal team members.

Define Requirements, Develop Accurate Baselines, and Develop Resource Plan. The technical approach is initially developed by the Parish and may be refined with MWH at the kickoff meeting. At this point, MWH will work with the Parish to identify critical deliverables, metrics, schedules, and quality objectives needed for effective project delivery. These are critical steps to establishing a clear understanding of project requirements and measurable objectives to assure successful completion. Once MWH understands all requirements, we develop a detailed task order schedule, resource plan, and a detailed and accurate cost estimate for the entire project based on the agreed-upon rate structure.

Step 2 Task Order Execution Execute, manage, and control the work through constant communication. Our experience has taught us one of the keys to project management success is continuous communication with all stakeholders throughout the project lifecycle.

Kickoff Meeting with Project Delivery Team Members. MWH will conduct an internal kickoff meeting with the entire project delivery team. This meeting clearly defines the goals and objectives for all executing team members. It also defines clearly the chain-of-command and lines of communication and authority for the team. This meeting also organizes the activities of MWH and BMI personnel that align with work requirements and project plans. It also ensures all stakeholder concerns are explained to the team and understood early in the project.

Deploy Team Members. Following the team's internal kickoff meeting, project team members will be deployed according to the direction and approval of the Parish.

Manage Cost, Schedule and Quality. After project execution has begun, our Project Manager monitors and controls project costs, schedule and quality. The Project Manager works in conjunction with the team's Field Supervisors, as well as Parish staff, to ensure that project personnel are performing satisfactorily and quality objectives are being met.

Track Milestones and Deliverables. Any project milestones and deliverables are identified and tracked as critical items. These milestones can be tracked on a daily, weekly or monthly basis depending on the critical nature of the milestone/deliverable. These may include items such as daily field records, haul tickets and other associated project documentation.

Manage and Control Subcontractors, Including Team Members. MWH routinely solicits, procures, manages, and controls multiple subcontractors on virtually all of our projects, both government and commercial. The MWH team have strong records in managing and controlling subcontractors, and we will assist the Parish in managing any subcontractors involved in debris removal efforts, to the extent desired by the Parish. MWH will also maintain overall management responsibility for all our team members.

Respond Quickly to Variances. We are experienced with successfully dealing with unexpected project occurrences. Any variances to the project scope will be immediately brought to the attention of the Parish so that immediate and proper action takes place.

Step 3 Task Order Closeout: This step involves conducting Task Order closeout in the most expeditious and cost effective manner. Once we have determined that project performance was completed according to the scope, we conduct administrative closeout, obtain subcontractor releases regarding final payment, ensure subcontractors have been paid, and submit the final invoice. Following the management approach outlined above for the Debris Monitoring Services contract will result in a successful project that meets all of the goals and objectives of the Parish.

Jade Rung, PE, PMP

Principal-in-Charge
MWH Americas, Inc.

Education/Licenses

- ✓ BS, Civil and Structural Engineering, Louisiana State University
- ✓ Professional Engineer – LA
- ✓ Project Manager Professional (PMP) : Project Management Institute

Key Experiences

- ✓ 17 years experience
- ✓ Experienced recovery project manager
- ✓ Familiarity in rebuilding Louisiana infrastructure and local communities
- ✓ Currently coordinating the City of New Orleans, architectural/engineering design firms, and general contractors in the repair of approximately 200 city facility projects

Mr. Rung is a licensed professional engineer with 17 years of experience in design/build project management for commercial, municipal, industrial, marine, and residential construction. He has experience in management in all phases of project construction, including, but not limited to, design, funding acquisition, bidding, permitting, cost estimating, procurement, general contracting, and close out. Mr. Rung's project management skills include CPM scheduling, cost.

Project Experience

Construction Manager, Design and Construction Management, Infrastructure Rehabilitation Program, New Orleans, LA

Mr. Rung was the construction manager responsible for design management, project coordination, project procurement, and construction management tasks for the New Orleans Office of Recovery and Development Administration multi-facility multi-million dollar evaluation and rehabilitation program. Mr. Rung is working with a team to coordinate the City of New Orleans, architectural/engineering design firms, and general contractors in the repair of approximately 200 city facility projects. Mr. Rung is also assisting the City of New Orleans in the procurement of FEMA, CDBG, and other funding sources to accommodate the projects.

Professional Engineer, Miscellaneous Projects, Southeast and Southwest LA

Following the natural disasters of Hurricane Katrina and Hurricane Rita, Mr. Rung provided his engineering and construction expertise to local businesses and residents during the rebuilding period. He provided design and construction evaluations, estimates, and reports to assist local property owners in the repairs and/or replacement of existing properties. Mr. Rung also provided

construction management services to local business owners during their rebuilding process including onsite coordination and independent evaluations. He managed projects ranging from a \$29K residential roof and insulation repair to a \$950K new commercial hanger facility including design, permitting, contracting, coordination, scheduling, and close-out.

Project Manager, Globalplex General Cargo Dock Expansion Project, Reserve, LA

Mr. Rung managed the design, cost estimation, and construction of all civil, marine, electrical, and mechanical phases of the \$29M Cargo Dock Expansion project at the Port of South Louisiana for River Consulting, Inc. He provided services for the preparation of the design, bid packages, contracts, and close-out documents for the marine work, electrical upgrade, dock expansion, electrical cranes, electrical gantries, and storage area. Mr. Rung provided schedule, cost, and scope management including reporting which was required to be presented monthly to the Port of South Louisiana Board Commission.

Susan Nolan, PE

Project Manager
MWH Americas, Inc.

Education/Licenses

- ✓ MS, Engineering,
University of New Orleans
- ✓ BS, Civil Engineering,
University of New Orleans
- ✓ Professional Engineer (Civil and Environmental) – LA

Key Experiences

- ✓ 28 years of local experience
- ✓ Served as Project Manager on multiple Emergency Debris Removal projects in New Orleans, managing the planning and QA/QC of debris removal efforts

Ms. Nolan has 28 years of civil engineering experience including planning, study, design, and construction of water, wastewater, and solid waste facilities. Ms. Nolan has spent the majority of the past four years as the Debris Mission Manager for the City of New Orleans Department of Sanitation working with the United States Army Corps of Engineers (USACE) on the Hurricane Katrina debris clean-up mission and others on the demolition of residential homes and small businesses damaged by Hurricane Katrina. For the Louisiana Department of Environmental Quality (DEQ), she prepared permit applications for solid waste facilities and landfills, as well as air permits for municipal incinerators, Title V permits, and water discharge permits. Ms. Nolan has prepared National Pollutant Discharge Elimination System (NPDES) permit applications, master plans and reports, forecasted water demands, performed computer assisted hydraulic network analysis, facility planning, and development of capital improvement programs. Ms. Nolan has represented municipalities on public advisory and public planning committees for landfill siting, transfer stations, reuse of biosolids, and water and wastewater discharge.

Project Experience

Project Manager, Emergency Debris Removal Coordination and Inspection Services, Hurricane Katrina Debris Clean-up, New Orleans, LA
Within days after Hurricane Katrina's landfall, Ms. Nolan began assisting the New Orleans Department of Sanitation Director with the largest emergency debris clean-up in the city's history. Prior to

USACE taking on the debris mission for the City, Ms. Nolan began the task of initiating the City's Disaster Debris Removal and Management plan and provided quality assurance/quality control (QA/QC) of the debris removal efforts. Ms. Nolan also was responsible for developing and coordinating the transition plan for the USACE's takeover of the overall debris removal mission.

Project Manager, Request for Proposals for Emergency Debris Management Services, Jefferson Parish, LA

Ms. Nolan was the project manager for preparation of the request for proposals to provide debris removal, processing, disposal, and management services for hurricane or other natural or man-made disasters for Jefferson Parish, Louisiana.

Manager, Emergency Debris Mission Management, Hurricane Katrina Debris Clean-up Mission, New Orleans, LA

Ms. Nolan assisted New Orleans in the largest emergency debris clean-up after Hurricane Katrina. Some of Ms. Nolan's responsibilities included QA/QC of the clean-up and preparing debris management plans. She also prepared a demolition plan and over saw the clean-up by USACE. Ms. Nolan was actively involved in the ongoing debris removal efforts and works closely with the City of New Orleans Department of Sanitation Director on a daily basis.

Project Manager, Request for Proposals for Permitting and Operation of Construction and Demolition Debris Landfill, New Orleans, LA

Ms. Nolan was the project manager for the preparation of the request for proposals for the permitting and operation of a construction and demolition debris landfill at the Old Gentilly Landfill site for New Orleans, Louisiana.

Project Manager, Recovery 1 Landfill Post-Closure Monitoring, New Orleans, LA

Ms. Nolan was the project manager for the post-closure monitoring and inspection for Recovery 1 Landfill. This also included groundwater monitoring, final cover inspection and maintenance, and annual reporting for New Orleans, Louisiana.

Project Manager, Phase III Landfill Expansion, Jefferson Parish, LA

Ms. Nolan was the project manager for the design and construction administration for the Phase III Expansion and Miscellaneous Permit Modifications to the Subtitle D Jefferson Parish Landfill, Jefferson Parish, Louisiana.

Quality Assurance/Quality Control Engineer, Sanitary Sewer Evaluation and Rehabilitation Program (SSERP), New Orleans, LA

Ms. Nolan was the quality assurance/quality control engineer for the design reviews of sewage pumps stations and force mains for SSERP. Ms. Nolan was responsible for the development of the QC review procedures for the checking and reviewing of the design engineer's project deliverables and other documents submitted to ensure quality. Ms. Nolan performed numerous technical reviews of preliminary design reports and plans and specifications for sewage pump stations and force mains under the SSERP.

Randy LeBlanc, PE

Supervisor

MWH Americas, Inc.

Education/Licenses

- ✓ BS, Civil Engineering, Louisiana State University
- ✓ Professional Engineer – LA

Key Experiences

- ✓ 27 years of local experience
- ✓ Extensive field operation experience and team leadership on multiple emergency debris removal projects throughout Louisiana
- ✓ On site experience leading field teams for an emergency storm debris removal cleaning project funded by FEMA in New Orleans

Mr. LeBlanc has 24 years of experience in construction management and field operation activities. He has served as a field manager for several projects related to storm debris removal following Hurricane Katrina, including significant interaction and coordination with the USACE, FEMA, and other state and local agencies. Mr. LeBlanc has served as construction manager for the East Baton Rouge Sewerage Commission Sanitary Sewer Overflow Program and project engineer for the New Orleans Sewer System Evaluation and Rehabilitation Program. Mr. LeBlanc has been responsible for QA plans, health and safety procedures, and field personnel staffing plans for construction QA inspections.

Project Experience

Field Team Leader, QA Inspection Services for Emergency Storm Drain Debris Removal, Hurricane Katrina Response, New Orleans, LA

Within a week of Hurricane Katrina's aftermath, Mr. LeBlanc was on site leading field teams for an emergency storm debris removal cleaning project funded by Federal Emergency Management Agency (FEMA). Mr. LeBlanc was able to pull together a team of nine inspectors and thirteen vacuum cleaning trucks within eight hours of authorization. He assisted in coordinating right-of-entry checklists and identifying potential hazardous material, documented debris disposal through completion of load tickets, and assessed loads at reduction/disposal sites. He also interacted with federal, state, and local authorities, and assisted with equipment procurement and establishment of field offices.

Field Manager, Quality Assurance for Storm Debris Mission, New Orleans, LA

Mr. LeBlanc was able to quickly assemble a team of QA inspectors to assist the United States Army Corps of Engineers (USACE) in their debris mission. This included interaction with FEMA representatives, City staff, and the USACE's contractor to ensure proper procedures and safety requirements were being implemented and utilized.

Field Operations Manager, Post-Katrina Emergency Storm Drain Cleaning Project, New Orleans, LA

Mr. LeBlanc was responsible for the planning and implementation of field operations for the staging, disposal, and quality assurance of post-Hurricane Katrina drain cleaning efforts, utilizing 100 vacuum trucks and 30 quality control personnel. Through coordination with numerous subcontractors, he implemented deployment methods to accelerate the schedule. He supervised all MWH and subcontractor personnel to ensure safety, quality, and production. He also documented field operation activities of the project and assisted in implementation of the geographical information system data collection effort and production mapping.

Construction Engineer, Sewer System Evaluation and Rehabilitation Program (SSERP), New Orleans, LA

As Construction Engineer, Mr. LeBlanc provided design and construction management services for sewer rehabilitation, force main installation, and pumping station projects executed as part of the \$631M SSERP. He assisted the design management team with development of standard technical specifications for use in SSERP construction contract documents and provided technical review of preliminary and final design contract documents for rehabilitation of gravity sewers and manholes, construction of new force mains, and rehabilitation of sewer pump stations. He also managed and directed the work of resident inspectors performing daily onsite inspection of contractors' work. He reviewed daily inspection reports for completeness and accuracy; conducted preconstruction meetings and monthly progress meetings; reviewed project submittals; and approved monthly payment applications. Mr. LeBlanc's responsibilities also included monitoring the overall status of construction projects and maintained detailed schedule and cost reports.

Construction Manager, Sanitary Sewer Overflow Program Staff Extension Services, Baton Rouge, LA

Mr. LeBlanc was construction manager under the staff extension contract on the East Baton Rouge Sanitary Sewer Overflow program, coordinating construction management activities on sanitary sewer projects. He was responsible for developing standard specifications and details, reviewing preliminary and final construction plans and specifications, and developing construction administration procedures for new and rehabilitation construction for gravity sewer, force main, and pump station projects.

Thomas M. Schreiner, PE

Principal

Pinnacle Engineering, LLC

Education/Licenses

- ✓ BS, Civil Engineering, University of Southwestern Louisiana
- ✓ Professional Engineer – LA, MS

Key Experiences

- ✓ Over 31 years of extensive local experience
- ✓ Serves as principal-in-charge on all Pinnacle projects managing design and construction administration.

Tom Schreiner is a registered professional civil and environmental engineer and is the president of Pinnacle Engineering, LLC.; he is an experienced engineering manager and principal with more than thirty one (31) years of experience in managing and designing civil, environmental, and public works projects. He is familiar with numerous federal and state programs related to the coastal restoration and planning.

As a civil and environmental engineer Mr. Schreiner has developed expertise which includes feasibility analyses, grant funding and design of various environmental projects including coastal restoration and nonpoint source pollution, as well as program management, design, construction and management of industrial and municipal wastewater treatment facilities, landfill gas collection and control systems, study and management of infiltration and inflow of storm water into wastewater collection systems of Covington, Picayune, Kenner, and Jefferson Parish . Mr. Schreiner's wide range of environmental experience from solid waste to treatment plant process gives him the flexibility to handle diverse projects.

Project Experience

- Jefferson Parish – Coastal Wetlands Conservation and Restoration Plan. Project Manager for the preparation of a comprehensive long-term plan for the conservation and restoration of Jefferson Parish coastal wetlands. The Plan included the design and implementation of capital and non-capital projects, funding assistance, program monitoring, and permitting assistance.
- City of Kenner – Project Manager for the Expansion of the City's Wastewater Treatment Plant - Prepared a Design Memorandum, Environmental Information Document (EID) and 201 Facility Plan for improvements to the three existing Wastewater Treatment Plants.
- City of Kenner- Primary Consulting Engineer handling matters involving the wastewater department, pretreatment program and NPDES Storm water Permitting.
- Jefferson Parish- East Bank & West Bank Wastewater Treatment Plant Consolidation Project - Project Manager for the preliminary phase, design phase and construction administration for the construction of a wastewater transmission system needed for the abandonment of satellite treatment plants and consolidation into a single regional treatment facility.
- City of Covington Wastewater Lift Station Improvements - Project Manager and client coordination for the preliminary phase, design phase and construction administration phase for improvements to three (3) influent wastewater lift stations.

- City of Covington Wastewater Treatment Plant Expansion - Project Manager for the expansion of the City's wastewater treatment facility. Improvements included the addition of a new entrance works, aeration basin, clarifier, chlorine contact tank, tertiary filter and aerobic digester.
- City of Covington Sewer Lift Station Hurricane Repairs - Project Manager for the replacement and repair of 26 wastewater lift stations following Hurricane Katrina.
- Picayune Wastewater Treatment Plant Expansion - Project Management for the construction of a new 2.4 mgd activated sludge wastewater treatment plant which was needed to handle the influx of residents following Hurricane Katrina.
- Westwego Water Treatment Plant Expansion, Phase I Project was necessary to accommodate the additional demands on the water system due to the surge in population following Hurricane Katrina. Pinnacle was contracted to provide engineering and construction management services for the construction of a new 1.5 mgd solids contact clarifier. Project required a combination of civil, process, structural and electrical engineering services. The completed project now allows the City of Westwego to provide uninterrupted water service to all of its residents.
- City of Covington 2009 Lift Station Improvements - Upgrade of four (4) key lift stations. The stations were mechanically and electrically improved including a new SCADA system.
- Jefferson Parish- East Bank & West Bank Wastewater Treatment Plant Consolidation Project - Project Manager for the preliminary phase, design phase and construction administration for the construction of a wastewater transmission system needed for the abandonment of satellite wastewater treatment plants and consolidation into a single regional treatment facility.
- Bogue Chitto State Park, Washington Parish, LA– Project Manager for the design for site design, drainage and roadway system for a new 1800 acre state park. Design responsibilities included a water supply and distribution system, as well as the wastewater collection and treatment system (approx. 35,000 gpd). Provided construction administration.
- West 28th Avenue Bridge Replacement, Covington, LA – Design and construction management for removal of an existing timber bent bridge and replacement with a new concrete arch bridge.
- Franklinton Elementary School, Franklinton, LA – Project Manager for complete civil site design – drainage, paving, grading in addition to water & sewer system.

Jeff Sapia, PE

Supervisor

MWH Americas, Inc.

Education/Licenses

- ✓ BS, Civil Engineering, Louisiana State University
- ✓ BS, Engineering Technology, Nicholls State University
- ✓ Professional Engineer – LA

Key Experiences

- ✓ 22 years of local experience
- ✓ Extensive experience with grant applications and reporting
- ✓ Project Manager for Terrebonne Basin Barrier Shoreline Restoration Project, Phase 1 – Submerged Cultural Resource Investigation

Jeffrey Sapia, is a Louisiana-licensed Civil Engineer with 22 years of experience managing multi-million dollar projects throughout the Gulf Coast Region. Mr. Sapia has experience in planning, design, construction, and management of various state and local projects. Mr. Sapia ensures design efficiency that also embodies quality, directs and mentors subconsultants, ensures consistency among project deliverables, and maintains open dialogue with client and other stakeholders.

Project Experience

Project Manager, Terrebonne Basin Barrier Shoreline Restoration Project, Phase 1 – Submerged Cultural Resource Investigation, Terrebonne Parish, LA

The Terrebonne Basin Barrier Shoreline Restoration (TBBSR) Project has been identified as a near-term critical restoration feature recommended for study in the Louisiana Coastal Area (LCA), Louisiana Ecosystem Restoration Study. The objectives of the TBBSR Project are to: minimize future land loss; restore barrier island geomorphic setting and ecologic function essential to providing a boundary between the Gulf of Mexico and the Terrebonne estuary; restore and improve various barrier island habitats that provide essential habitat for fish, migratory birds, and other terrestrial and aquatic species; and increase the sediment budget by mechanically introducing compatible sediments from offshore sources for distribution via natural long shore sediment transport processes. The services provided by MWH are those required to conduct a Phase 1 remote sensing cultural resource investigation of the moderate probability area identified for Whiskey

Island (1039 acres) and the submerged areas around Whiskey Island (2024 acres). This investigation includes a remote sensing data acquisition and cultural resources analyses, and the preparation of a management summary, draft, and final report.

Project Manager, EPA Funded Lake Pontchartrain Basin Foundation Projects, Ascension Parish, LA

Mr. Sapia has assisted Ascension Parish with preparation of three successful grant applications for the EPA funded Lake Pontchartrain Basin Foundation Projects and prepared semi-annual and annual progress reports for five projects. In addition, he provided overall project management services, provided pump station design services, and was responsible for activities such as QA/QC, progress meetings, monthly progress reporting, project schedule, maintaining cost-control, managing subcontractors, and preparation of bid documents (plans and specifications).

Project Manager, GIWW to Clovelly Maintenance (BA-02), Lafourche Parish, LA

Mr. Sapia is serving as project manager for this project that involves design, permitting, and bidding services for the repair of existing deficiencies identified by OCPD personnel in the previously constructed project features. MWH will refurbish three rock weirs (Structures 2, 4, and 14A) and recap the 6,000-foot rock dike along the lake rim of Bay L'Ours to the lines and grades of the original

project. MWH will repair five breaches in the earthen canal bank and remove and replace in-kind eight navigation dolphin structures at Structures 1 and 14A.

Project Manager, South Wastewater Treatment Plant Influent Pump Station Modifications and Construction Administration Services, City/Parish of Baton Rouge, LA

Mr. Sapia managed a staff that included project engineers and subcontractors, managed relationships with major product vendors, and directed the design and cost estimation of all demolition, mechanical works, site works, and odor control systems as part of a \$4M project. In addition to managing all phases of project design, he was a member of the design team handling site civil design and odor control design. Due to regulatory requirements, the client reduced the design schedule by two months to avoid potential fines and changed the scope of work. The design of project was still completed on time and within budget. Mr. Sapia also monitored the construction phase through an on-site resident engineer and the project was completed on budget.

Task Leader, Reservoir Priority Development Program (RPDP), Baton Rouge, LA

Mr. Sapia served as the data management task leader for this project, which evaluated proposed state-owned reservoirs based on a comprehensive suite of engineering, environmental, and socioeconomic criteria. The RPDP identified and prioritized statewide water supply issues relative to available supplies, future demands, regulatory and institutional issues, and socioeconomic influences to establish the basis for a reservoir ranking model. Mr. Sapia's responsibilities included development of a data inventory and data management plan; and development of basin characterization reports for each of Louisiana's nine watershed basins. Mr. Sapia coordinated with several state and federal agencies (USACE, LDTOD, LDEQ, LWLF, USGS, LGS, etc.).

Project Manager, Sewer System Evaluation and Rehabilitation Program (SSERP), New Orleans, LA

Mr. Sapia managed multiple program tasks for this program to upgrade and replace wastewater systems in New Orleans, Louisiana. He supervised a staff of engineers and had project manager responsibilities including the supervision and coordination of multiple design contractors and their subcontractors and review of design schedule, cost control, and constructability review. He also updated and developed several program standard specifications, developed a model modification guideline, and trained personnel on hydrologic modeling basics.

Albion Ewton, PMP

Supervisor
 Royal Engineers & Consultants

Education/Licenses

- ✓ BSC, Business Administration, Louisiana State University
- ✓ Design and Construction of WWTP Facilities, Cal State
- ✓ Postgraduate studies, USC, Certificate, Government Procurement, University of Texas
- ✓ 40-hour HAZWOPER

Key Experiences

- ✓ 30 years experience providing leadership in construction, infrastructure
- ✓ Management of responses to Hurricanes Katrina, Rita, and Ike

Mr. Ewton is a highly accomplished project and program manager with more than 30 years experience providing leadership in construction, infrastructure, security, and defense efforts in environments of complicated and overlapping jurisdictions and interests. He has held progressively responsible positions in the management of some of the world's largest and most challenging domestic and international projects including response to Hurricanes Katrina, Rita, and Ike.

He has hands-on experience in project management, project controls, construction management, and program management of heavy civil/mechanical, infrastructure, and O&M projects with further exposure in logistics, contract management, and procurement

Project Experience

Royal Engineers & Consultants - Central Yard Facilities, S&WB, New Orleans, LA

As the Project Manager, Mr. Ewton is responsible for the design and rebuilding of a 23,000 sq ft office and maintenance facility and a new 38,000 sq ft enhanced maintenance facility. Mr. Ewton has completed and presented the Preliminary Design Report to the client. The rehabilitation of the 4500 acre South Shore gravity sewer system. This project includes 2,200 manholes and 550,000 linear feet of pipe. The project scope includes pipe replacement, point repairs, trenchless repair technologies, and manhole rehabilitation.

Disaster Recovery Operations, Cameron Parish. LA
 As the Construction Manager, Mr. Ewton managed the construction program for over 300 federally funded work scopes to rebuild public facilities damaged or destroyed by Hurricane Rita in Cameron Parish, LA. He provided leadership and supervision for Project Inspectors and compiled detailed reports for the client.

ECC, Burlingame, California - Disaster Recovery Operations, Washington Parish, LA

As Operations Manager, Mr. Ewton served as the single point of contact for the demolition and infrastructure cleanup team performing structure demolition, waste stream disposal, and operation of a Category 2 landfill in Washington Parish. Mr. Ewton managed as many as 50 contractor work crews operating concurrently. This award-winning project demolished more structures and hauled more debris in its first six months of highly successful performance than the other Louisiana parishes combined.

Roebbing Steel Company Superfund Site, Florence, NJ

Mr. Ewton served as the Project Manager for the restoration and conversion of an historic steel cable manufacturing facility for adaptive re-use as a museum. He was responsible for scheduling, contractor oversight, reporting, invoicing, and project closeout inspections. The project was executed under Federal and State historic preservation guidelines and received awards for Historic Preservation Project of the Year.

Defense and Base Upgrade Projects, Kuwait

As the Project Manager, Mr. Ewton was responsible for the overall design-build construction management including project controls, schedules, quality control, and safety compliance. He managed multiple, concurrent task orders for classified defense and base upgrade projects that included anti-vehicular security fence, secure communications facilities, outside plant communications distribution, security checkpoints, and a 340-foot microwave tower. All construction was to U.S. military specifications using site adaptation of design in soils ranging from sandy to bedrock in a remote, harsh environment employing third-country nationals. The project received AFCEE's highest rating for construction management.

Fred Charles Mortali, PE

Supervisor

N-Y Associates, Inc.

Education/Licenses

- ✓ BS, Civil Engineering, University of Toledo
- ✓ Professional Engineer -MS

Key Experiences

- ✓ Familiar with FEMA funded projects

Mr. Mortali has nearly two decades of experience providing Program Management and Engineering expertise throughout the Louisiana and Southeast region of the US. Services have been provided for a variety of project types including Drainage Analysis; Water/Sewerage Facilities; Stormwater/Drainage Facilities and Roadway projects. Mr. Mortali is a member of the American Society of Civil Engineers.

Project Experience

Program Management, Jefferson Parish, LA

Program Management for \$65 million of FEMA - Reimbursable Eastbank Street Improvements. Mr. Mortalie also worked on several projects for the Greater New Orleans Expressway Commission

(GNOEC) Causeway Bridge and North Toll Plaza.

Storm water, Hydrology and Hydraulics, Mandeville, LA

Responsible for coordination and management of the Reynolds Road Drainage Analysis project that included a 163 acre storm-water runoff detention area and the West Covington Cleco Substation which included a 2000 foot access road which crossed a tributary of the Tchefuncte River.

Wastewater, Palm Coast, FL

Mr. Mortalie participated in the completion of the expansion of a wastewater treatment facility which resulted in a parallel train including new headworks, oxidation ditch, 2 clarifiers, the addition of a disc filter bed and water management reuse structures. The proposed expansion was 6.83 MGD; Pilot study for a raw water main bypass for Water Treatment Facility No. 1 (Palm Coast) consisting of tapping the 10" bypass to the 16" main; Evaluation of the hydraulics of the Palm Coast storm water drainage system to determine the storm year at which roadway flooding occurs; Roadway/Canal Culvert and Weir Structure Replacement: 6 roadway/canal culverts to be replaced with reinforced concrete culverts, including the design of retaining walls and one control structure.

Transportation, Bowling Green, OH

The experience of Mr. Mortalie also includes extensive work with the Ohio Department of Transportation on the following projects:

Drainage projects which included storm water drainage systems, over 60 culvert replacements, culvert extensions, Roadway projects which included roadway upgrades, roadway relocations, safety grading, and determining roadway alignments; ditch relocations and storm water pollution prevention plans; Structural projects which included reinforced concrete retaining walls, culverts and headwalls.

Daniel Harper, E.I.

Project Engineer

Pinnacle Engineering, LLC

- ✓ 1998 BS, Environmental

Mr. Harper is one of Pinnacle Engineering's project engineers for a variety of civil engineering projects. Mr. Harper began his career in 1996 and since that time has worked as a project engineer, AutoCAD operator, and inspector on industrial, municipal, commercial and institutional projects. His experience includes the design and construction administration of various types of projects including schools, wastewater collection/treatment, water supply, drainage, recreational facilities, site civil and structural projects. Mr. Harper has prepared engineering reports for sewer extensions, drainage studies, water distribution systems, and drainage restoration projects. He has designed storm water detention systems and prepared hydrologic reports for private, commercial, and institutional projects. Daniel has prepared plans and specifications for wastewater collection systems, wastewater lift stations, water well systems, water distribution systems, channel dredging projects, concrete and timber structures, subsurface and surface drainage facilities, storm water detention systems, and drainage control structures. Mr. Harper is proficient with AutoDesk's land development software and various hydraulic and hydrologic modeling software packages.

Project Experience

- City of Covington Wastewater Treatment Plant Expansion, Covington, LA - Assisted in plant design and site piping layout for the project. Assisted in coordination of the electrical, structural, and civil plans and final construction documents for the project.
- Picayune Wastewater Treatment Plant Expansion - Assisted in preliminary site layout of the plant site. Project Engineer for the design of the digester, maintenance building, lab/operations building, and sludge dewatering building. Also handled the drainage design of the plant site.
- St. Tammany Parish – Designed Wastewater Treatment Plants for various small to medium size commercial and institutional applications.
- Covington High School Softball Utility Building – Covington, LA: Site civil design including drainage, utility extensions, and sewage lift station – Performed site civil design including drainage, utility extensions, and sewage lift station for project. Assisted in plan and specification preparation. Performed oversight during construction.
- Westwego Water Treatment Plant Expansion, Westwego, LA – Project Engineer handled the coordination of electrical and structural plans with civil plans during the design phase of the project. Assisted in the civil design and plan preparation for final construction documents.
- City of Covington, Mackie Creek Basin Drainage Study, Covington, LA - Performed a hydrologic and hydraulic analysis of the basin and proposed solutions for areas of poor

drainage. Prepared cost estimates for alternatives and assisted client in determining priority of suggested improvements.

- City of Covington, Mackie Creek Drainage Improvement – Phase I – Covington, LA – Project Engineer prepared plans and specifications for the removal and replacement of drain lines and catch basins along New Hampshire, East Rutland, Temperance, and Vermont Streets to alleviate drainage problems experienced in these areas. Performed oversight and administration during construction.
- Woodridge, Deer Run, Hwy 22 Drainage Improvements, Mandeville, LA – Project Engineer performed a hydrologic and hydraulic analysis of the basin and proposed solutions for areas of poor drainage. Prepared cost estimates for alternatives and assisted client in determining priority of suggested improvements.
- Madisonville Elementary School Drainage Improvements, Madisonville, LA – Project Engineer evaluated existing drainage conditions on campus, and prepared preliminary plans and a cost estimate for improvements to alleviate drainage problems. Prepared final construction documents, and provided project oversight during construction.
- L.P. Monteleone Junior High School, Mandeville, LA – Project Engineer performed civil site design including drainage, detention, grading, site paving, site utilities, water well, and lift station design. Assisted in plan and specification preparation. Assisted in project oversight during construction.
- Franklinton Elementary School, Franklinton, LA - Project Engineer performed civil site design including drainage, grading, site paving, and site utilities. Assisted in plan and specification preparation. Provided project oversight during construction.
- Pine Jr. and Sr. High School, Pine, LA - Project Engineer performed civil site design including drainage, grading, site paving, site utilities, water well, and sewer treatment plant design. Assisted in plan and specification preparation. Provided project oversight during construction.
- New Senior High School, Hwy 1088, Mandeville, LA - Project Engineer performed civil site design including drainage, detention, grading, site paving, site utilities, water well, and sewer treatment plant design. Assisted in plan and specification preparation. Providing project oversight during construction.
- St. Tammany Parish Animal Services Complex, St. Tammany Parish, LA - Project Engineer performed civil site design including drainage, detention, grading, site paving, site utilities, water well, and sewer treatment plant design. Assisted in plan and specification preparation. Provided project oversight during construction.

Tony Ricks

Project Engineer

Pinnacle Engineering, LLC

Education/Licenses

- ✓ 2001 BS, Civil Engineering, University of New Orleans

Key Experiences

- ✓ 11 years of local experience
- ✓ Inspection Monitor Manager-Post Katrina Debris Cleanup. Project Manager for this Disaster Recovery Operation

Before graduating from the University of New Orleans in 2001, Mr. Ricks gained a broad range of experience in the construction industry. This experience includes residential and commercial construction management, as well as inspection and construction administration of road building, municipal water and sanitation projects. While still in school, Mr. Ricks was in the engineer study/work cooperative program with the U.S. Corps of Engineers New Orleans District. For his senior year, he attended a U.S. Public Health Service Commission Corps summer program with the EPA Region 6 office working on coastal hydraulic projects. He is a member of the American Society of Civil Engineers and is certified by the American Concrete Institute. Mr. Ricks has worked on construction projects in Washington D.C., Montana, the City of New Orleans, Jefferson Parish, East Baton Rouge, New Orleans International Airport, Baton Rouge Metropolitan Airport, City of Kenner, City of Covington, Port of New Orleans, and Globalplex.

Project Experience

- City of New Orleans Disaster Recovery Operations - As a Project Manager, Mr. Ricks provided direct supervision of the technician monitors. Mr. Ricks coordinated the closeout documentation preparation as required by the Office of Homeland Security and Emergency Preparedness.
- City of Kenner, Wastewater Treatment Plant #3 Expansion, Kenner, LA - Project Engineer- Coordinated the day-to-day inspections and testing.
- City of Covington Wastewater Treatment Plant Expansion, Covington, LA – Project Engineer for the construction administration of a new treatment train which will augment the treatment capacity of this facility.
- City of Covington, Lift Station No. 3 Force Main, Covington, LA – Project Engineer for the design and construction management for the extension of an 8" PVC sanitary sewer forcemain. This extension relieved surcharge conditions in the gravity collection system of the receiving lift station.
- City of Covington Wastewater Lift Station Improvements, Covington, LA – Project Engineer for the design and construction administration phases for the improvements to three (3) influent wastewater lift stations.
- Louis Armstrong International Airport Runway 10-28 Extension with Tunnel, Bridge, Floodwall & Swing Gate, Kenner, LA
- Post Katrina Intercoastal Canal Floodwall Construction, New Orleans, LA – Project Engineer for the construction of a new floodwall.

- City of Covington, Street Improvement Program, Covington, LA – 2008-2011 – Provided construction administration for municipal street reconstruction. The project included drainage improvements, roadway base improvements and roadway resurfacing.
- City of New Orleans Street Maintenance Program, New Orleans, LA – Project Engineer for the design and construction management reconstruction in the City of New Orleans. The project included drainage improvements, base and surface repairs and handicap reconstruction.
- City of New Orleans Housing Authority- Housing Development Demolishing and Reconstruction Program, New Orleans, LA
- City of Covington Lift Station Hurricane Repairs, Covington, LA – Project Engineer for the replacement and repair of 26 wastewater lift stations following Hurricane Katrina.

Mr. Ricks provided design and construction management services for the following:

- D-Day Museum Construction, New Orleans, LA
- Baton Rouge Regional Airport Expansion Project, Baton Rouge, LA
- Florida Avenue Bridge & Floodwall, New Orleans, LA
- Convention Center Phase 4 Floodwall, New Orleans, LA
- Port of New Orleans, Nashville Warf Cargo Area, Corps of Engineers, New Orleans, LA

Leon A. Cuccia

Civil Engineering - Technical

N-Y Associates, Inc.

Education/Licenses

- ✓ BS, Civil Engineering,
University of Toledo
- ✓ Professional Engineer
-MS

Key Experiences

- ✓ Familiar with FEMA
funded projects

Mr. Cuccia has almost thirty plus years of experience providing Program and Project Management throughout the Louisiana area.

His span of expertise includes the following:

Highways and Bridges,
St. Tammany, St. Bernard and Jefferson Parish, LA
An environmental assessment, geometric study, preliminary and final plans for the LA 1088 Interchange, Route I-12 in St. Tammany Parish for the Louisiana Department of Transportation and Development; Environmental Assessment for a new Florida Avenue Bridge over the Inner Harbor Navigation Canal in Orleans and St. Bernard Parishes for the LADOTD; Engineering Feasibility Study and Environmental Inventory and an Environmental Assessment for a new Interchange at Causeway Boulevard at the Earhart Expressway in Jefferson Parish for the LADOTD; Environmental Assessment for a New Bridge over the Harvey Canal at Harvey Boulevard in Jefferson Parish, LA for the Regional Planning Commission.

Flood Control and Drainage Projects,

US Army Corp of Engineers - Jefferson Parish, LA

Fronting Protection and Backflow Prevention at Cousins, Whitney Barataria and Estelle Pumping Stations in Jefferson Parish, LA for the U. S. Army Corps of Engineers (Task Order No. 1);

Replacement of Flood Protection from Bayou Segnette Pumping Station to Westwego Pumping Station No. 2 in Jefferson Parish, LA for the U. S. Army Corps of Engineers (Task Order No. 2);

Reconnaissance Level Study and Plans and Specifications for Hurricane Protection Alignments, Westbank and Vicinity, Lake Cataouatche) Hurricane Protection Levee; Jefferson and St. Charles Parishes, LA (Task Order No. 3);

Plans and Specifications for a 750 cfs Interim Pump Facility at the East of Harvey Sector Gate Structure; Jefferson Parish, LA (Task Order No. 4); Feasibility Study and Conceptual Cost Estimates for the Hoey's Basin Pump to the River Project in Jefferson Parish,

LA (Council Districts 5 and 2); Interim 2100 cfs Drainage Pumping Station at the 17th Street Canal for the U. S. Army Corps of Engineers (post-Katrina).

Design,

LADOTD, Jefferson Parish, LA

State Highway LA 15: Clayton to Greenville; Concordia and Catahoula Parishes for LADOTD;

Barataria Boulevard Improvements, Jefferson Parish, LA;

LaPalco Boulevard Improvements, Jefferson Parish, LA;

Bayou Segnette Bridge Widening, Jefferson Parish, LA;

Soniat Canal Improvements, Jefferson Parish, LA;

Veterans Boulevard Improvements (Williams Boulevard to Soniat Canal), Jefferson Parish, LA

David C. DeVun, Sr.

Construction Manager
Pinnacle Engineering, LLC

Education/Licenses

- ✓ 1980 BOA Degree, Pre-Law/Political Science Civil Engineering – Sophomore Status, University of New Orleans
- ✓ 1989 Paralegal Studies Program, Louisiana State University

Key Experiences

- ✓ Nearly two decades of experience in the New Orleans, Louisiana area
- ✓ Familiar with FEMA funded projects

Mr. David DeVun serves Pinnacle Engineering, L.L.C. as the construction manager for civil engineering projects. Mr. DeVun began his career in 1980 and since that time has worked as project manager and construction manager on commercial, municipal, industrial and telecommunications projects. His experience includes the construction administration of various types of projects including civil and municipal water, sewer, drainage, and street projects. Mr. DeVun has also provided construction inspection and construction managements services for civil, commercial, and airport type projects. His construction management experience with civil projects includes the installation of the 36 inch effluent force main from the Bridge City Wastewater Treatment Plant for a 3 MGD to 10 MGD expansion and the covering of an existing drainage canal with pre-fab box culverts. He also has a publication such as: De Vun, David C., "Chevron Bottom Ash as a Substitute for Cement and Fine Aggregate for Use in Construction: A Testing and Research Analysis, 1993.

Project Experience

- L.P. Monteleone Junior High School, Mandeville, LA Civil site design including drainage, paving sewer extensions, hydrological report and water system. Also included in this project was the construction of an entrance road and turning lanes onto the connecting state highway.
- Franklinton High School Field – Washington Parish, LA - Construction manager for civil site design and construction including drainage, paving and grading, along with water & sewer systems.
- City of Covington Wastewater Treatment Plant Expansion Construction Administration for the 0.875 mgd expansion of the City of Covington's wastewater treatment plant. This project includes a headworks, aeration basin, clarifier, chlorine contact basin, tertiary filter and digester.
- Pineview Sidewalk Extension Field construction manager for civil site design and construction including drainage, paving and grading for extension of existing sidewalk.
- Hibernia National Bank Slidell, LA Field construction manager for construction including drainage, paving and grading for new construction of banking facilities paving and drainage.
- Covington High School Football Field Drainage Improvements, Covington, LA
- Covington Elementary School Renovation Project Field Construction manager for drainage and utility relocations.
- Honey Island/Cypress Cove Elementary Schools Construction manager for civil portion of a classroom addition at two schools – water line extensions, parking lot and drainage.

- Fountainbleau High School Baseball/Softball Facility Construction manager for drainage, water and sewer line relocations.
- Magnolia Trace Elementary School – Classroom Addition: Construction manager including utility extensions and drainage.
- Expansion of Copeland’s Parking Lot – Slidell, LA: Construction manager engineer for a new parking lot expansion, drainage, lighting along with new hydrological report/ concept.
- Covington High School Football Field Drainage Construction administration for removal and replacement of the existing drainage system for the football field.

Mike Pugh, PE

Technical Advisory Committee
 Royal Engineers & Consultants

Education/Licenses

- ✓ B.S., Civil Engineering, Louisiana State University, Baton Rouge
- ✓ Professional Engineer- LA, VI, AL
- ✓ Licensed General Contractor- LA

Key Experiences

- ✓ Experience managing the recovery operations
- ✓ Managed QA services in support of storm debris removal activities in the City of New Orleans following Hurricane Katrina

Mr. Pugh has a broad experience in civil engineering resulting from over 12 years in the consulting engineering practice. He is experienced in drainage system design, road design, marine design and construction, residential and commercial subdivision design, storm water management and treatment, water transmission, and wastewater collection.

Project Experience

St. Bernard Parish Hurricane Katrina Recovery, LA
 After the impact of Hurricane Katrina on St. Bernard Parish Mr. Pugh served as Principal-In-Charge responsible for disaster recovery operations in St. Bernard Parish only four days after the impact of the storm. Experience in these operations includes infrastructure inspection/assessment and repair of the sanitary sewer, water distribution and storm drainage systems; debris removal management; vehicle recovery and processing; and coordination with local, State and Federal authorities. Mr. Pugh was responsible for overall supervision of the entire project.

Hurricane Katrina Recovery, LA
 As the Principal-In-Charge, Mr. Pugh was responsible for managing the daily hurricane recovery operations which included sanitary sewer system assessment, by-pass pumping operations, and debris removal management. Responsibilities included managing up to 60 independent contractors performing various duties, coordination with

Federal, State and local officials and general engineering management.

New Orleans Post Hurricane Katrina Emergency Storm Drain Cleaning, LA
 As Principal-In-Charge, Mr. Pugh was responsible for all project oversight, including mobilization of up to 100 vacuum trucks from around the country to clean storm drains following Hurricane Katrina. Under Mr. Pugh's leadership, the project team demonstrated its ability to collect and organize voluminous data and produce accurate reports with quick turn-around. The team mapped this information in the GIS database and provided daily postings of this information to the "ReviveNOLA.com" website. Over the 12-week duration of the project, some 47,300 catch basins were cleaned and over 3.3 million linear feet of drainage pipelines were cleaned, a feat never before accomplished within such a short timeframe.

Sewerage and Water Board of New Orleans Post Hurricane Katrina Water Distribution System Assessment, LA
 As Principal-In-Charge, Mr. Pugh led a team in reconnaissance activities inspecting the New Orleans water distribution system for breaks and for facilities damaged by Hurricane Katrina. The team collected and managed data to provide the client with accurate and timely reports and provided daily postings of real-time information to the program website. Over the course of the 12-week effort, nearly 4,000 water distribution system breaks were identified for repair.

Sewerage and Water Board of New Orleans Post Hurricane Katrina Sewer Collection System Rehabilitation, LA

Mr. Pugh served as the Principal-In-Charge with Royal as a member of the team providing reconnaissance and pre-design activities for the New Orleans sewer collection system following Hurricane Katrina. The gravity sewer system, including sewer lines, laterals, and manholes were inspected and identified for rehabilitation. The project team accumulated data which was posted to the GIS database on the program website. Over the lifecycle of this project sewer manhole and pipeline inspections were completed for the system, nearly 1.7 million linear feet (27%) of sewer pipelines were cleaned, 156,000 linear feet of sewer pipelines were inspected by closed circuit television, and nearly 380 recommendations for repair (totaling \$4.7 million) were identified.

USACE Emergency Storm Debris Removal, LA

As the Principal-In-Charge, Mr. Pugh managed the Royal team responsible for providing quality assurance services in support of storm debris removal activities in the City of New Orleans following Hurricane Katrina. This included inspecting work performed by debris removal contractors, documenting debris removal volumes, and documenting all quality assurance efforts. Mr. Pugh performed initial planning, scheduling, and overall team supervision.

USACE Debris Mission in Support of Hurricanes Katrina and Rita, LA

Mr. Pugh served as the Project Manager where Royal was a subcontractor to Gotech, Inc. Royal provided six Quality Assurance Inspectors (12 hours per day, 7 days per week) for a one-year period in support of storm debris removal and reduction activities. This included inspecting work performed by debris removal contractors, documenting debris removal volumes, and documenting all quality assurance efforts. Mr. Pugh was responsible for initial planning, budgeting, scheduling, and overall team supervision.

Frank Nicoladis, PE

Technical Advisory Committee

N-Y Associates

Education/Licenses

- ✓ BS, /Mississippi State University/Civil Engineering
- ✓ Professional Engineer – LA, MS, FL, TX, AR,
- ✓ Professional Land Surveyor – LA

Key Experiences

- ✓ Principal-in-Charge for federal, state, and local projects
- ✓ Responsible for QC standards

Mr. Nicoladis has served as the Principal-in-Charge for projects undertaken for public agencies at the federal, state, and local levels including those in the City of Kenner and Jefferson Parish, LA. Prior to establishing N-Y, Mr. Nicoladis worked for several consulting firms in Louisiana and Mississippi, where he was project engineer and then project manager for municipal projects. He has prepared various types of reports which include preliminary studies, financial studies, rate studies, and appraisals. He has served as an expert witness in several court cases and is very familiar with federal grant programs. Mr. Nicoladis has formulated various construction programs for his clients and has assisted them in the passage of bond issues which were required to finance their construction.

Mr. Nicoladis, although President of the firm, remains in its mainstream. He is involved in providing overview services for all projects. Some of his primary concerns are seeing that projects are adequately staffed and that the firm's quality control standards are adhered to during the design process. He also ensures that the client's schedule and budget are met.

Mr. Nicoladis is a member of the following organizations:

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

Project Experience

He is involved in all civil engineering projects including:

- Wastewater Collection and Treatment;
- Sewage Lift Station and Force Main Improvements;
- Flood Control Structures and Drainage Pump Stations;

- Canals and Box Culverts;
- Water Supply, Treatment, and Distribution;
- Streets and Roadways;
- Bridges and Highways;
- Railroads;
- Port and Marine Facilities;
- Environmental Inventories, Assessments and Impact Statements;
- Studies and Reports (Including Line and Grade);
- Preliminary and Final Construction Plans;
- Master Plans;

Kevin Cruice

Technical Advisory Committee

MWH Americas, Inc.

Education/Licenses

- ✓ BS, General Studies, University of Southwestern Louisiana

Key Experiences

- ✓ 22 years of local experience
- ✓ Experienced with rapid response recovery efforts
- ✓ Assisted the New Orleans Department of Sanitation implement their Disaster Debris Removal and Management plan within days of Hurricane Katrina making landfall
- ✓ Implemented a schedule for 100 staff members trained on the USACE QA Inspection processes and procedures for the Debris Removal Mission

Mr. Cruice has over 22 years of experience, including the rapid startup of several quick response recovery efforts following Hurricane Katrina working closely with the United States Army Corps of Engineers (USACE), and other federal, state, and local agencies. As construction manager for the New Orleans Sanitary Sewer Evaluation and Rehabilitation Program (SSERP), he oversees multiple subcontractors during execution of field work and provides quality assurance and quality control (QA/QC) of their data collection efforts. As design manager for the SSERP, he managed the design schedule and budget; conducted constructability reviews and technical review of construction contract documents, and coordinated bid and award and pre-construction phase activities. Mr. Cruice has also managed the installation, commissioning, operation, and maintenance of telemetric sewer flow and rainfall gauging networks for wet weather infiltration and inflow analysis. He has been responsible for calibration of hydraulic sewer models, closed-circuit television and sonar inspection of sewers, and design and construction of sewer rehabilitation and capacity upgrade projects.

Project Experience

Field Operations Manager, Emergency Debris Removal Coordination and Inspection Services, Hurricane Katrina Debris Clean-up, New Orleans, LA

Within days after Hurricane Katrina making landfall, Mr. Cruice was on the ground assisting the New Orleans Department of Sanitation implement their Disaster Debris Removal and Management plan. Mr. Cruice was able to assemble a group of 65 QA inspectors to assist in this effort while meeting with Federal Emergency Management Agency (FEMA) representatives, city staff, and the contractor to ensure proper procedures were being implemented. Mr. Cruice also was responsible for assessing the practicality of

temporary debris storage and reduction sites. He also ensured that all QA Inspectors were properly trained (i.e. haul ticket preparation, debris eligibility and quantification, reduction site monitoring, etc.), and that they were utilizing all proper safety equipment. Mr. Cruice was the primary field representative on behalf of the city in the transition of duties for the overall debris removal mission from the city to the USACE.

Field Operations Manager, Quality Assurance Inspection Services for Debris Removal, New Orleans, New Orleans, LA

Mr. Cruice assisted in a successful transition of duties for the overall debris removal mission from the city to the USACE. He then assumed the same role under MWH's contract directly with the USACE. He continued to act as a field liaison to the New Orleans Department of Sanitation and interact with federal, state, and other local authorities. He continued to assisted with the staffing of the project to over 100 individuals in the filed within 30 days. Mr. Cruice was responsible for procuring equipment and materials, setting up offices, as well as lodging for many of the staff. He also implemented a schedule to have all 100 staff members trained on the USACE QA Inspection

processes and procedures for the Debris Removal Mission. Under the USACE all trucks were required to be re-certified and Mr. Cruice oversaw these responsibilities as well as that all other activities were performed in accordance with USACE standards (writing of load tickets, the assessments of loads at reduction/disposal sites; the completion, review, and approval of right-of-entry checklists; identifying potential hazardous materials, etc.). Mr. Cruice was responsible for ensuring all team members were in compliance with the USACE safety standards and conducted daily safety meetings.

Construction Manager, Sewer System Evaluation and Rehabilitation Program, New Orleans, LA

Mr. Cruice served as the construction manager for this \$631M program ordered by consent decree. He led a team of 40 resident engineers, administrators, and field inspection staff. Mr. Cruice was responsible for planning and directing all construction management tasks, including holding pre-construction meetings, coordination with testing laboratories, field inspection, submittal reviews, responses to requests for information, progress meetings, QC, progress payments, claims resolution, change orders, contract administration, warranty certification, and project closeout. He was also responsible for management of complaint resolution, interfacing with local community groups, and conducting workshops with specific civic or merchant groups. Under his direction, the construction group maintains a geographical information system (GIS) database to track construction progress, construction crew locations, and complaint locations and status. Mr. Cruice was also responsible for safety aspects during the completion of the project.

Project Manager (Sewerage), Post-Katrina Assessments of Water and Sewerage Systems –Phase I, New Orleans, LA

Mr. Cruice's job responsibilities included managing field activities coordinating the rapid startup of 60 resident engineers, field inspectors, and administrative staff, along with approximately 20 fully manned cleaning and closed-circuit television (CCTV) trucks. He was responsible for the planning, direction, and oversight of all field work and data QA/QC efforts preceding the input into tracking database, which included issuing of cleaning work orders and coordination of field activities for different contractors and identifying sewer line segments for CCTV. He was also responsible for site safety assessments, plan development, implementation, and effectiveness. These efforts required interaction and coordination with federal, state, and local authorities, as well as complaint management with the local community.

Project Manager, Roadside Drainage Cleaning Project, Slidell, LA

Mr. Cruice's job responsibilities included coordination of the rapid startup of ten resident engineers, field inspectors, and administrative staff, as well as eight cleaning crews. He provided planning, direction, and oversight of all fieldwork and data QA/QC efforts prior to input into the tracking database. He was responsible for the cleaning of all roadside drainage (both open ditch and subsurface) which were affected by Hurricane Katrina. This required the issuing of cleaning work orders and coordination of field activities for different contractors and City personnel. Mr. Cruice managed the implementation and updating of a web-based GIS database which tracked progress and status of cleaning efforts. He also interacted with local municipality's staff and authorities as well as complaint management for the local community. Mr. Cruice was also responsible for safety aspects during the completion of the project.

Constantine Nicoladis, PE

Technical Advisory Committee
 N-Y Associates

Education/Licenses

- ✓ BS, Vanderbilt University/Civil and Environmental Engineering
- ✓ MBA, Loyola University
- ✓ Professional Engineer – LA, MS, FL, AL, TX

Key Experiences

- ✓ Project Manager for many design rehabilitation projects in LA.
- ✓ Offers extensive experience in design and construction for federal, state, and local projects

Mr. Nicoladis offers extensive experience with the design and construction engineering of street, water, drainage, and sewerage systems, including lift stations, gravity collection lines, force mains, pump stations, and building sitework.

Project Experience

Sewerage Projects:

- Project Manager for New Sewer Lift Station #4334 in Kenner, LA.
- Project Manager for Improvements to Sewer Lift Station at 33rd and Hans (#4335) in Kenner, LA.
- Project Manager for New Sewer Lift Station at 33rd and Connecticut Avenue (#4336) in Kenner, Louisiana.
- Project Manager for \$1.9 million in lift station and force main improvements for the City of Kenner, Louisiana.
- Project Manager for the design of a New, 23,000 GPM Pumping Station at Transcontinental Drive and Vineland Street in Jefferson Parish, Louisiana.
- Project Manager for Improvements to Nine (9) Sewer Lift Stations for the Sewerage and Water Board of New Orleans.
- Project Manager for Lift Station Improvements in St. Bernard Parish, LA.
- Project Manager for the design for Rehabilitation of Pumping Stations (Mini-Systems) in Jefferson Parish, Louisiana Districts 4 and 6.
- Project Manager for the design of the 900,000 GPD Garyville, Louisiana Wastewater Treatment Plant, as well as the plant's influent and effluent pumping stations.
- Project Manager for the design and construction engineering for 5 miles of gravity sewers, 4 lift stations and 2 miles of sewer force mains in St. John the Baptist Parish, Louisiana.
- Project Manager for construction administration of Central Wastewater Treatment Plant in St. John the Baptist Parish, Louisiana.
- Project Manager for design and construction administration of lift stations for Willow Bend and Central Collection Systems on West Bank of St. John the Baptist Parish, Louisiana.
- Project Manager for the Wallace Wastewater Treatment Plant in St. John the Baptist Parish, Louisiana.
- Project Manager for Heights Drive Force Main and Lift Station Improvements in St. Bernard Parish, Louisiana.
- Project Manager for FEMA sponsored Sewer Point Repairs in St. Bernard Parish, Louisiana. Sitework and Utilities (includes sewer, water and drainage):

- Project Manager for Sewerage, Drainage, and Waterline improvements to the St. Bernard Public Housing Development for the Housing Authority of New Orleans with a construction value of \$11 million.
- Project Manager for Utility System Improvements at the Lafitte Public Housing Development in New Orleans, Louisiana. The project included the replacement of 20,500 l.f. of 60-year-old 4" to 8" sewer line, 6,500 l.f. of 1" to 12" water line, and 4,250 l.f. of 6" to 10" drainage line.

R. Christopher Young, PE

Technical Advisory Committee

MWH Americas, Inc.

Education/Licenses

- ✓ MBA, Business Administration, Southeastern Louisiana University
- ✓ BS, Civil Engineering, Louisiana State University
- ✓ Professional Engineer – LA, MS

Key Experiences

- ✓ 17 years of extensive local experience
- ✓ Serves as principal-in-charge of Post-Disaster Program Management Projects, managing recovery efforts for roads, subsurface infrastructure and public buildings in Cameron Parish and New Orleans
- ✓ Principal-in-Charge of New Orleans SSERP Project

Mr. Young has 17 years of civil engineering experience and is the Southeast business unit leader for MWH. He serves as the principal-in-charge for Louisiana projects such as GIWW to Clovelly Maintenance and Terrebonne Basin Barrier Shoreline Restoration Project, Phase 1; Post-Disaster Program Management Projects, managing recovery efforts for roads, subsurface infrastructure and public buildings in Cameron Parish and New Orleans; and water resource planning efforts for Louisiana Department of Transportation and Development. For the City of New Orleans' Sanitary Sewer Evaluation and Rehabilitation Program, Mr. Young serves as program manager of all design and construction efforts with stakeholders and federal grant management assistance.

Project Experience

Deputy Program Manager, Cameron Parish Disaster Recovery Program, Cameron Parish, LA

Mr. Young served as deputy program manager for the repair and reconstruction activities to Cameron Parish infrastructure and community facilities. Key projects included the Jetty Pier Reconstruction Project, Causeway Boat Launch, Deep Bayou Bridge Replacement, and Gravity Drainage Dist. #3 - West Canal Bridge Replacements. In this role, Mr. Young was involved in overall leadership of the program and lead reconstruction efforts, while balancing the needs of the Coastal Zone and addressing new flood plain management issues.

Principal-in-Charge, Sanitary Sewer Evaluation and Rehabilitation Program (SSERP), New Orleans, LA

Mr. Young currently serves as the overall program leader for SSERP. He is leading MWH's work with the Sewerage and Water Board (S&WB) of New Orleans to repair the city's aging wastewater collection system and control sanitary sewer overflows. The program

was implemented in response to an EPA consent decree, and includes a comprehensive evaluation of the wastewater collection system, construction management, design, and development of cost-effective solutions.

Principal-in-Charge, GIWW to Clovelly Maintenance (BA-02), Lafourche Parish, LA
Mr. Young is serving as principal-in-charge for this project that involves design, permitting, and bidding services for the repair of existing deficiencies identified by OCPR personnel in the previously constructed project features. MWH will refurbish three rock weirs (Structures 2, 4, and 14A) and recap the 6,000-foot rock dike along the lake rim of Bay L'Ours to the lines and grades of the original BA-02 project. MWH will repair five breaches in the earthen canal bank and remove and replace in-kind eight navigation dolphin structures at Structures 1 and 14A. MWH will also design approximately 1,000 linear feet of rock plug extension from the southern end of Structure 4B to Structure 4 utilizing the typical design details and cross sections established for the design of the lake rim structure of the original BA-02 project.

Deputy Program Manager, Sanitary Sewer Overflow Program,
Baton Rouge, LA

Mr. Young provided rehabilitation and design management and oversight for this capital improvements program. In this role, he managed multiple A/E design teams simultaneously, reviewed and managed multiple projects, established system standards, and scheduled and managed project work. His responsibilities included more than \$45M in capacity and rehabilitation projects, all of which were completed under budget and ahead of schedule.

Project Civil Engineer, Sand Creek Pump Station/Force Main Hydraulic Analysis,
Colorado Springs, CO

Mr. Young performed a hydraulic analysis on the Sand Creek Pump Station and Force Main. His duties included system head curve development and analysis for existing and future flow design scenarios. Mr. Young documented findings and delivered recommendations in a written technical memorandum.

John Catalanotto, PE

Crew Leader

MWH Americas, Inc.

Education/Licenses

- ✓ BS, Civil Engineering, Louisiana State University
- ✓ Professional Engineer – LA

Mr. Catalanotto has nine years of experience in the MWH New Orleans office providing construction management, critical path method scheduling and inspection oversight. Recently he managed inspectors providing quality assurance services for the removal of storm related debris in the City of New Orleans and Jefferson Parish following the aftermath of Hurricane Katrina. Mr. Catalanotto worked closely with the United States Army Corps of Engineers (USACE) New Orleans District and the public in the execution of these tasks. Mr. Catalanotto also performs resident engineer duties for the Sewerage and Water Board of New Orleans' Sewer System

Evaluation and Rehabilitation Program (SSERP) overseeing the construction of sewer force main and gravity sewer interconnection projects as well as the rehabilitation of existing gravity sewer pipelines. Mr. Catalanotto has provided exceptional services to the Louisiana agencies of the New Orleans Sewerage & Water Board, City of New Orleans, and USACE New Orleans District.

Project Experience

Field Operations, Emergency Debris Removal Coordination and Inspection Services, Hurricane Katrina Debris Clean-up, New Orleans, LA

Mr. Catalanotto was instrumental in assembling a crew of 65 QA inspectors to perform emergency debris clean-up in the City of New Orleans following Hurricane Katrina. He provided QA inspection and Tower Monitor training to new employees, as well as ensuring that proper PPE was acquired and worn by all employees. Mr. Catalanotto also assisted in the transition duties for the overall debris removal mission from the City to the USACE.

Field Operations, Quality Assurance Inspection Services for Debris Removal, New Orleans, LA

Mr. Catalanotto managed quality assurance (QA) monitors for the USACE for the removal of debris in Orleans Parish due to Hurricane Katrina. His specific responsibilities included assistance with field activities for the project, interaction with the clients representatives as well as federal, state and local authorities in the field, daily interaction with the client's prime contractor to identify debris removal crew locations and assess resource needs, scheduling and oversight of QA monitors, addressing complaints and inquiries from residents and subcontractors, and resolving disputes between subcontractors and QA monitors.

Field Operations, Post Katrina Assessments of Water and Sewerage Systems, New Orleans, LA

Mr. Catalanotto managed inspectors performing assessments of the sewerage collection system in New Orleans in the aftermath of Hurricane Katrina. He coordinated with cleaning and closed circuit television (CCTV) inspection subcontractors to ensure the efficiency in cleaning operations as well as CCTV evaluation of the gravity sewer system. With his previous experience with the Sewerage and Water Board's sewer collection system, SSERP, and local contractors, Mr. Catalanotto was able to immediately initiate field operations for the Emergency Sewer System Assessment Phase I project. Being local, knowledgeable and experienced in this type of assessment on this specific system saved time and money during the start-up phase as well as during the project.

Field Operations, Storm Debris Cleanup and Inspection Services following Tropical Storm Cindy, Jefferson Parish, LA

Mr. Catalanotto managed QA monitors Jefferson Parish for the removal of debris in Jefferson Parish due to Tropical Storm Cindy. His specific responsibilities included assistance with field activities for the project, interaction with the clients representatives as well as other local authorities in the field, daily interaction with the client's prime contractor to identify debris removal crew locations and assess resource needs, scheduling and oversight of QA monitors, addressing complaints and inquiries from residents and subcontractors, and resolving disputes between subcontractors and QA monitors.

Resident Engineer, Sewer System Evaluation and Rehabilitation Program, New Orleans, LA

Mr. Catalanotto provided construction management services for sewer collection system rehabilitation contracts, overseeing repair work on sewer pipelines by various open cut and trenchless rehabilitation methods. In his role as resident engineer, Mr. Catalanotto reviewed contractor requests for payment, construction submittals and claims, and conducted pre-construction meetings as well as regular monthly progress meetings. Documentation and reporting on the progress of contracts as well as any issues or changes in scope were also included in Mr. Catalanotto's responsibility. Mr. Catalanotto worked on the SSERP in various capacities ranging from data management and Collection System Evaluation Study quality assurance and quality control (QA/QC) to design support and construction management. This range of experience gives Mr. Catalanotto an understanding of the overall goals and operations of the SSERP, which increases his efficiency in fulfilling his responsibilities as well as supporting others.

Gene Ferraro

Crew Leader

MWH Americas, Inc.

Education/Licenses

- ✓ BS, Construction Management, Milwaukee School of Engineering
- ✓ OSHA: General Construction Safety
- ✓ OSHA: Hazardous Materials First Responder Operations
- ✓ USACE: Debris OA Inspection Procedures
- ✓ USACE: Demolition Safety
- ✓ USACE: Asbestos Awareness and Safety Procedures
- ✓ USACE: Personal Protective Equipment

Mr. Ferraro has years of management experience specializing in construction management, supervising production processes and personnel, planning and scheduling production and construction activities, safety program development and compliance, estimating and quality assurance. He also has significant experience in emergency response, debris removal operations and quality assurance following disaster events.

Project Experience

Field Operations, Emergency Debris Removal Coordination and Inspection Services, Hurricane Katrina Debris Clean-up, New Orleans, LA

Mr. Ferraro was instrumental in assembling a crew of 65 quality assurance (QA) inspectors to perform emergency debris clean-up in New Orleans following Hurricane Katrina. He provided QA inspection and tower monitor training to new employees, as well as ensured that proper personal protective equipment (PPE) was acquired and worn by all employees.

Field Operations, Quality Assurance for Debris Removal Mission, New Orleans, LA

Mr. Ferraro assisted in assembling a team of QA inspectors to assist the US Army Corps of Engineers (USACE) in their debris removal mission. He was responsible for QA Inspector assignments and oversight in addition to daily review of load tickets and tower

monitoring responsibilities. Mr. Ferraro also interacted with the FEMA representatives, City staff, and the USACE's contractor to ensure proper procedures and safety requirements were being implemented and utilized.

Field Operations, Quality Assurance Services for Hurricanes Katrina and Rita in Affected Parishes, LA

Mr. Ferraro managed a team of approximately 30 QA Inspectors for the USACE debris removal mission in Jefferson Parish, Louisiana resulting from Hurricane Katrina. His specific responsibilities included assistance with field activities for the project, interaction with the client representatives as well as federal, state and local authorities in the field, and daily interaction with the client's prime contractor to identify debris removal crew locations and assess resource needs. Mr. Ferraro was also responsible for scheduling and oversight of QA Inspectors, addressing complaints and inquiries from residents and subcontractors, and resolving disputes between subcontractors and QA Inspectors. Mr. Ferraro was also responsible for ensuring that the USACE's safety procedures were being implemented and adhered to as well as conducting weekly safety meetings.

Field Operations, Emergency Sewer System Assessment Phase I,
New Orleans, LA

Mr. Ferraro managed inspectors performing assessments of the sewage collection system in New Orleans in the aftermath of Hurricane Katrina. He coordinated with cleaning and CCTV inspection subcontractors to ensure efficiency in cleaning operations as well as CCTV evaluation of the gravity sewer system. With his previous experience with the Sewerage and Water Board's sewage collection system and local contractors, Mr. Ferraro was able to immediately initiate field operations for the project. Being local, knowledgeable and experienced in this type of assessment on this specific system saved time and money during the start-up phase as well as during the project.

Sparkle Noble, PE

Crew Leader

MWH Americas, Inc.

Education/Licenses

- ✓ BS, Environmental Engineering, Louisiana State University
- ✓ Professional Engineer – LA

Ms. Noble has 10 years of environmental engineering experience, including evaluation and design of wastewater and water treatment facilities, hydraulic modeling of sewer and fresh water systems, GIS, and sewer rehab analysis. She is familiar with the Baton Rouge collection system, having served as the project engineer for the Sanitary Sewer Overflow Corrective Action Plan and the Asset Management Program.

Project Experience

Project Engineer, Sanitary Sewer Overflow Corrective Action Plan, City of Baton Rouge/Parish of East Baton Rouge, LA

Ms. Noble was the project engineer for the system-wide analysis of the City-Parish wastewater collection system, which uses a comprehensive GIS mapping/data management system and a HydroWorks dynamic hydraulic computer model to determine the best mix of sewer rehabilitation, relief sewers, wet weather facilities, and other options to control sanitary sewer overflows. The project includes flow monitoring, evaluating pump station capabilities, building and calibrating the hydraulic model of the collection system, and using the model to develop and compare alternatives on a cost-benefit basis.

Project Engineer, South Wastewater Treatment Plant (WWTP) Trickling Filter Improvements Immediate Action Project, Baton Rouge, LA

Ms. Noble provided design coordination and assistance for the recently completed Trickling Filter Improvements project. The recently completed Trickling Filter Improvements project consisted of a 119-mgd pump station design, including a dual-side wet well containing four 600-hp recirculation pumps and six 250-hp effluent pumps, as well as large diameter (40-inch – 84-inch) steel piping. The well construction required a nearly 50-foot-deep excavation in very challenging soils within the Mississippi River escarpment. Both the wet well structure and the new electrical building will be pile supported. The project is designed to be mechanically and electrically compatible with control modification, which will be required once new wet weather treatment facilities are installed at the plant. These modifications will be accomplished by adjustable weirs and minor programming, and are essentially zero cost.

Project Engineer, Operational Improvements, South WWTP, City of Baton Rouge/Parish of East Baton Rouge, LA

Ms. Noble assisted with an evaluation of the Primary Clarifier Effluent Pump Station at the South WWTP to investigate operational and control issues and recommend system operational and equipment modifications. She also assisted with an evaluation of flow meter performance at each of the City-Parish major WWTPs to determine the cause of differences between influent and effluent flow records at the plants.

Project Engineer, Wastewater Immediate Action Plan, Opelousas, LA

Ms. Noble helped performed an inspection and review of critical wastewater infrastructure for the City of Opelousas in order to identify chronic and consistent problem areas, facilities and infrastructure components in critical condition and / or at risk of near-term failure. Six critical pump stations and the entire wastewater treatment plant were included in the evaluation. Based on the results of the evaluation, MWH developed a set of Immediate Action Recommendations to address near-term equipment/facility needs that, if otherwise not addressed, might contribute to pump station or treatment plant operational failures.

Project Engineer, Wastewater Infrastructure Asset Management Program, Baton Rouge, LA

Ms. Noble assisted with the long-term flow monitoring program, which included downloading data weekly from project meters, coordinating meter maintenance, and producing weekly and monthly reports for the City-Parish. She also assisted with pipeline evaluations, which involved locating the entire Price Brothers pipe in the City-Parish to allow inspections to determine possible damage due to hydrogen sulfide corrosion. Following these inspections, she produced maps showing the location of damage. She also used a Sewer Rehabilitation Decision Support System to evaluate inspection data for sewer lines and provide recommendations for rehabilitation.

Project Engineer, Sanitary Sewer Overflow Program Maps and Model Updates, City of Baton Rouge/Parish of East Baton Rouge, LA

Ms. Noble was involved in updating the East Baton Rouge Sewerage Commission's paper sewer maps, which included importing changes to the GIS and updating the HydroWorks hydraulic model. She recently completed the upgrade of the hydraulic model from HydroWorks to InfoWorks.

Project Engineer, Sewer System Evaluation and Rehabilitation Program (SSERP), New Orleans, LA

Ms. Noble assisted with updating the HydroWorks hydraulic model of the existing and future versions of the sewer system maintained by the Sewerage and Water Board of New Orleans. She also incorporated changes to the corrective action plans developed during the design process.

Project Engineer, Iberville Water District No. 3 Evaluation Project, Iberville Parish, LA

Ms. Noble assisted with the evaluation of the Iberville Water District No. 3 WTP and distribution system. She coordinated with a subconsultant to collect samples for water quality and bench-scale testing; analyzed test results and produced presentation graphs; and participated in field tests to obtain information on the water distribution system to calibrate an H2Onet hydraulic model of the system to determine possible improvements. She also helped create reports that presented recommendations for improving water quality and distribution, in addition to training Parish staff on the use of the hydraulic model and demonstrated the model to the Parish Council.

Tim Carter

Crew Leader

Royal Engineers & Consultants

Education/Licenses

- ✓ BS, Mechanical Engineering, University of New Orleans

Mr. Carter has a wealth of experience in mechanical and civil engineering, project management, inspection services, and quality assurance/quality control resulting from 4 years in engineering consulting practice.

Mr. Carter is also responsible for assuring that the various services performed by Royal are effective and free from deficiencies or operational problems and errors. He prescribes corrective actions based on detailed troubleshooting and problem identification.

Project Experience

Royal Engineers and Consultants, New Orleans, Louisiana (2005 – Present)
Office of Recovery and Development Administration, New Orleans, LA

Mr. Carter is the Project Engineer on this project for the assessment, rehabilitation, replacement, and the strategic improvement of civic infrastructure and public buildings following Hurricane Katrina for the City of New Orleans. He is responsible for engineering management for all individual projects throughout various phases of the work.

Parishwide Regulatory and Street Sign Replacement, St. Bernard Parish, LA

This project included replacement of all regulatory and street signs within St. Bernard Parish due to the damage from Hurricane Katrina and the recovery process. Approximately 20,000 signs were replaced according to State and Federal standards at a cost of \$1.75 million. As the Project Engineer, Mr. Carter was responsible for performing an inventory of all Parish signs, preparing construction documents and all associated design, conducting a public bid process, and construction supervision of the entire project.

Roadway Restoration Project, St. Bernard Parish, LA

This project included restoration of all concrete and asphalt roadways, including associated infrastructure (i.e., sidewalks, driveways, drainage, sewer, water) that suffered damage during Hurricane Katrina. The restoration was limited to Parish roadways and did not include State and Federal roadways. Approximately 50 miles of roadway were replaced at a construction cost of \$20,750,000. As the Project Engineer, Mr. Carter was responsible for assessing damaged roadways, preparing construction documents, and supervising construction through the project lifecycle.

USACE Debris Mission in Support of Hurricane Katrina, New Orleans, LA

Mr. Carter was the Project Manager for this project where Royal provided six quality assurance inspectors for a one year period in support of storm debris removal and reduction activities. This included inspecting work performed by debris removal contractors, documenting debris removal volumes, and documenting all quality assurance activities.

Sewerage and Water Board of New Orleans Post Hurricane Katrina Sewer Collection System Rehabilitation, New Orleans, LA

Mr. Carter served as the Project Manager for this project where Royal was a member of the team providing reconnaissance and pre-design activities for the New Orleans sewer collection system following Hurricane Katrina. The gravity sewer system, including sewer lines, laterals, and manholes, were inspected and identified for rehabilitation. Mr. Carter was able to collect and organize voluminous data and produce comprehensive reports by performing data management for the project progress, mapping this information in the GIS database, and providing daily postings to the client website.

Over the initial implementation of this project, sewer manhole and pipeline inspections were completed for 92% of the system, nearly 1.7 million linear feet of sewer pipelines were cleaned, 156,000 linear feet of sewer lines were inspected by closed circuit television, and approximately 380 recommendations for repair were identified totaling \$4.7 million.

City of New Orleans Post Hurricane Katrina Emergency Storm Drain Cleaning, New Orleans, LA

As a Project Manager, Mr. Carter was responsible for project oversight of 100 vacuum trucks recruited from around the country to clean drainage facilities in New Orleans following Hurricane Katrina. Over the 12-week duration of this project, 47,300 catch basins and over 3.3 million linear feet of drainage pipelines were cleaned. Mr. Carter ensured the collection of data supporting the project progress and formulated comprehensive reports, which were posted to the GIS database and client website.

Hurricane Katrina Recovery Operations, New Orleans, LA

As a Project Manager, Mr. Carter was responsible for hurricane recovery operations, which included sanitary sewer system assessment, by-pass pumping operations, and debris removal management. Mr. Carter managed up to 60 independent contractors performing various duties, coordination with Federal, State, and local officials and general engineering management.

Eric Nelson

Crew Leader

Royal Engineers & Consultants

Education/Licenses

- ✓ Ohio State University
- ✓ University of Maryland
- ✓ Inspector General Course, US Army
- ✓ Warrant Officer Senior Course, US Army

Mr. Nelson has more than 33 years experience providing leadership and management in complex roles. He is experienced as a Program Manager and Project Manager in contracts with the Federal Government with individual contract values up to \$1 billion. He is experienced in the hands-on management of Hurricane Katrina recovery operations in three parishes in Louisiana. Mr. Nelson excels at establishing and maintaining excellent client relations and developing a cohesive team of all stakeholders. Project Experience

Royal Engineers & Consultants, New Orleans, Louisiana
Disaster Recovery Operations, Cameron Parish, LA

As a Project Manager, Mr. Nelson is responsible for the formal closeout of FEMA Project Worksheets for disaster recovery operations in Cameron Parish, LA following Hurricane Rita. He works closely with Federal, State and local officials to provide full documentation of project completion and submits closeout packages to the Governor's Office of Homeland Security and Emergency Preparedness. His closeout package format has been selected as a model for the State of Louisiana.

ECC, Burlingame, California, Disaster Recovery Operation,
Washington and Orleans Parishes, LA

As a Project Manager, Mr. Nelson was responsible for the hurricane debris cleanup of Washington and Orleans Parishes, Louisiana consisting of over five million cubic yards of debris and the demolition of over 1900 homes under a \$1 billion firm-fixed price contract for the USACE. He created and maintained a superb working relationship with the US Army Corps of Engineers, LDEQ, FEMA, USEPA, City of New Orleans and Washington Parish Government. He was responsible for as many as 98 crews working on a daily basis collecting seven distinct debris streams each with separate disposition requirements. He was additionally responsible for the operations of the support staff for the timely and accurate submission of all records and reports. This program received many awards from the USACE.

Military Construction, Kuwait

As a Project Manager, Mr. Nelson was responsible for the construction of a 340' strategic communications tower at Khabari Crossing, Kuwait under a \$1.4 million cost reimbursable contract for the Air Force Center for Engineering and the Environment. Additionally, he served as Project Manager for several other construction projects with a contract value over \$2 million.

Destruction of Captured Enemy Ammunition, Iraq

As a Program Manager, Mr. Nelson was responsible for the destruction of over 36,000 tons of captured ammunition in Iraq under a \$70 million contract for the US Army Corps of Engineers. The project team operated one large ammunition depot and various remote locations destroying over 100 tons of ammunition per day. He was responsible for a safety program that logged over 1 million man-hours without a lost time accident. All tasks from the client were finished on time and each period of performance was completed under budget. He was responsible for over \$10.4 million of government furnished equipment. He was also responsible for the planning and execution of the transition from an ammunition demolition depot to a legacy ammunition depot for the new Iraqi Army.

Kalonga Siamwiza

Data Management/GIS Analyst

MWH Americas, Inc.

Education/Licenses

- ✓ MS, Architecture,
Tulane University

Mr. Siamwiza has eight years of specialized experience with GIS and database management. He created and managed the MS SQL Server Database for collecting information related to City of New Orleans Recovery projects and developed stored procedures and triggers to maintain data integrity within the database. He also developed views and functions to extract data from Primavera databases to display to end users through MS Access interface, as well as pushing data to an external website. Mr. Siamwiza also managed GIS inventory including

maintenance and support on all GIS files pertaining to the drainage collection, water distribution, and sewer collection systems for the City of New Orleans Department of Public Works and the Sewerage and Water Board of New Orleans.

Project Experience

GIS/Database Specialist, DPW - Federal Emergency Management Agency (FEMA), New Orleans, LA

Mr. Siamwiza assisted in the maintenance of a database for tracking work quantities and work orders for the cleaning of New Orleans' sewer systems. He worked on the creation of GIS inventory of New Orleans drainage assets. Additionally, he performed data capture for assets cleaned during New Orleans Post-Hurricane Katrina Drainage cleaning. The data captured enabled the City of New Orleans to collect 100 percent reimbursement from FEMA after project audits.

GIS/Database Specialist, Post Hurricane Katrina Slidell Sewer and Drainage System Cleaning, Slidell, LA

Mr. Siamwiza managed database and GIS inventory for assets cleaned during Post Hurricane Katrina Slidell Sewer and Drainage system cleaning. He assisted in the maintenance of the database, which tracked work quantities and work orders for cleaning the City's sewer and drainage systems. Mr. Siamwiza updated the sewer GIS for the City based on field information obtained during the project. Worked on the data Capture of Assets cleaned during New Orleans Post Hurricane Katrina Drainage cleaning.

GIS/Database Technician, Sewer System Evaluation and Rehabilitation Program (SSERP), New Orleans, LA

Mr. Siamwiza has served as the primary resource for maintenance of the SSERP website, as well as the primary resource for maintaining the SSERP construction data. He ensures that all updates from the various stages of the program, CSES, RMAP, Construction, and Certification are up to date on the website. Mr. Siamwiza's responsibilities included maintaining the SSERP Information Network (SIN) database, upload of construction data for tracking purposes, and performing data audits. Additionally, he was responsible for updating the sewer GIS with changes, making sure these changes were reflected on the website, and uploading data to Sewerage and Water Board's (S&WB)'s CassWorks Inventory Management. Accurate data was easily available to managers through reports from the database, enabling them to make decisions and respond to the client more quickly. Mr. Siamwiza also served as resident engineer on the program. His responsibilities included management of sewer rehabilitation projects and certification of all grant-funded projects.

GIS/Database Specialist, Post-Katrina Emergency Sewer System Assessment - Phase II, New Orleans, LA

Mr. Siamwiza created a database for tracking manhole inspections, line cleaning, and CCTV for projects. He used data from the database to create and update manhole inspection and sewer line

cleaning maps. In order to create and update the maps, Mr. Siamwiza constructed a GIS tool that produced manhole inspection maps from a grid using data from the database. He is also responsible for all data transfer to the S&WB's Cass Works Inventory Management System

GIS/Database Specialist, Department of Public Works Staff Extension,
New Orleans, LA

Mr. Siamwiza developed and created the database that manages eligible street repairs, including GIS data associated with each project. This database tracks in excess of 17,000 discreet repair locations and captures all construction activity from repair dates to quantity tracking to reporting to citizen generated ADR reports. Additionally, he developed and created a database for collecting citizen comments on DPW projects. He served as the primary resource for the maintenance of information on City's eligible street repairs website, updated the necessary changes, and helped to create various web reports. For the Federal Emergency Management Agency (FEMA) Roadway and Sidewalk Patching Services Project, Mr. Siamwiza created a database for tracking contractor, inspection firm, and testing firm invoices. He linked the database with a quantity database to produce reports, which compared field construction with management metric values. Mr. Siamwiza constructed a database for tracking citizen inquiries and assisted in the creation of a web site for City of New Orleans maintenance staff, giving them the ability to enter data into database and generate reports from the database.

Stuart Welch

Environmental Health and Safety

MWH Americas, Inc.

Education/Licenses

- ✓ Business Management, University of Phoenix

Mr. Welch has more than 23 years of experience as a successful, pragmatic, business-focused, global environmental health and safety (EHS) manager in the manufacturing, service, and entertainment sectors. He has successfully developed and implemented safety standards across a large set of government and corporate clients. His experience includes regulatory compliance counseling, employee health and safety, facility operations, construction, product regulation, and risk management for major corporate entities with the

commitment, energy, and executive leadership necessary to put these qualifications to work and to add value to the organization.

Project Experience

Various Health & Safety Efforts for GE clients, CA

Mr. Welch developed CalOSHA compliant programs, policies, and training programs for a GE Commercial Finance Trailer Fleet Services location in Southern California. Work was undertaken in response to a 15-citation notice of violation, issued by CalOSHA. After providing the client with prompt implementation of corrective actions, Mr. Welch successfully provided the corrective action response package to CalOSHA, addressing all citations issued, which resulted in a lower negotiated penalty for the client.

Mr. Welch prepared the curriculum and delivered Federal Resource Conservation and Recovery Act (RCRA) and Cal EPA hazardous waste handler training to employees of Smith's Aerospace (post-acquisition by GE Aviation), for their re-manufacturing sites in California. This training ensured that all wastes at these sites are accumulated, stored, packaged, labeled, declared, and manifested properly.

Mr. Welch completed onsite assessments and post-acquisition EHS integration efforts for GE Water's desalination and wastewater treatment plant business at 22 facilities located throughout the Caribbean. Deliverables included Health & Safety program implementation; formal written control of energy (Lock Out Tag Out) procedures; confined space assessments; personal protective equipment (PPE) assessments; employee noise exposure evaluations; safety risk assessments/job safety analysis; chemical storage review; employee training; plant physical condition audits; overall EHS compliance; and mechanical, electrical and structural integrity. Off-site follow up included summary reports and corrective actions for all issues noted in the field visits.

Mr. Welch prepared a remediation plan for a GE Water site for an upcoming project to address a substantial diesel fuel release, including excavation, treatment, and return of soils, using chemical oxidation technologies (to eliminate the need to ship contaminated soil off site); removal of an abandoned underground fuel pipeline; removal of an above-ground fuel pipeline; and preliminary design for installation of new diesel fuel tank fill port and loading rack facilities.

Mr. Welch developed formal corrective action plans and costing to GE Aviation, to support machine guarding efforts at 22 sites in the USA as a part of their post acquisition integration planning requirements.

Mr. Welch performed multiple on-site, pre-acquisition EHS due diligence audits for GE Medical Systems at manufacturing facilities located in the United States, the Caribbean, South America, and Europe. He identified over 1,000 issues requiring corrective action and providing formal reports to the client for use in negotiating costs to correct.

Principal Health & Safety Practice Leader, San Vicente Dam Raise Project, San Diego, CA

Mr. Welch prepared a comprehensive Health & Safety Plan (HASP) for the San Diego County Department of Water and Power San Vicente Dam Raise project, the largest roller packed concrete dam raise project in the world.

Ben Maygarden

Environmental Specialist

MWH Americas, Inc.

Education/Licenses

- ✓ MA, Political Science, University of Kentucky
- ✓ BA, Foreign Affairs, University of Virginia

Mr. Maygarden has 25 years of experience working on a wide range of engineering projects. He has led projects for hurricane protection, tidal protection and flood control systems; navigation locks; channel dredging; hydrologic restoration; dredged material borrow and disposal areas; freshwater diversions; pipelines; cultural resource investigations; remote sensing; hazard and marine archeological survey; and Phase I environmental assessments and land-use histories.

Project Experience

QA/QC, Terrebonne Basin Barrier Shoreline Restoration Project (TBSRP), New Orleans, LA

Mr. Maygarden served as field investigations data analyst for TBSRP. The project's purpose was to conduct a remote sensing cultural resource investigation of two areas near the Isles Dernieres chain in Terrebonne Parish, LA. TBSRP restored and protected the natural barrier shoreline system in order to support reestablishment of a sustainable ecosystem in the Terrebonne Basin. Mr. Maygarden oversaw database development and reviewed the Management Summary, Draft Report, Preliminary Final Report, and Final Report.

Project Manager, Bonnet Carre Spillway Operational Management Plan, New Orleans, LA

Mr. Maygarden developed the operational management plan and sand-hauling lease program, and managed the interpretive services consultant for this project. His efforts assisted USACE to perform selected natural resource inventories and implement the first two years of the project's interpretive plan, including development and implementation of a project-level GIS system, cultural resources management support, assistance in implementation of a sand-hauling lease program, and preparation of a landscape improvement plan.

Project Manager, Recovery Emergency Cost and Infrastructure Damages Study for Various Parishes, New Orleans, LA

Mr. Maygarden managed the quantification of costs associated with emergency activities conducted by the public and private sectors before, during, and after flood events. The study supported the Morganza to the Gulf, Donaldsonville to the Gulf, and Larose to Golden Meadow hurricane risk reduction projects. The MWH project team developed a methodology to estimate the NED emergency costs/losses for the without-project condition and conducted expert elicitation of estimates of damages and operations costs in 25 categories. Cost processes and uncertainty were developed for depth-damage relationships in each emergency cost and infrastructure damage category and applied to the estimate data obtained by expert elicitation interviews. Mr. Maygarden's responsibilities included leading coordination with the client, overseeing methodology, scenario, and process development, and producing reports.

John Hamm, PE

Civil/Structural Engineer

MWH Americas, Inc.

Education/Licenses

- ✓ BS, Civil Engineering,
University of Colorado
- ✓ Professional Engineer
– LA, SC, TX, NM,
MO, MN, CO, NV

Mr. Hamm has 25 years of engineering experience including structural design and project management for numerous Water Treatment Plant's (WTP) and Wastewater Treatment Plant's (WWTP) throughout the US, ranging from 0.5 mgd to 76 mgd. His structural engineering experience includes water and wastewater treatment facilities, water storage reservoirs and distribution systems, wastewater and stormwater collection systems, dam structures and solid and hazardous waste facilities. Since 2005 he has served as the lead structural engineer in the MWH Design Central Area, managing up to eight engineers and designers. Mr. Hamm's engineering expertise includes structural analysis and design, foundation design, computer modeling, preparation of contract drawings and specifications, cross-discipline coordination and writing technical memoranda, and construction services. His project management responsibilities include preparing scopes of work and budgets, monitoring project budgets, workforce planning, interface with clients, supervising staff on projects, and mentoring junior engineers. Mr. Hamm is one of the approved structural technical reviewers in MWH Design.

Project Experience

Structural Design Coordination Services, South WWTP Trickling Filter Improvements, City of Baton Rouge/Parish of East Baton Rouge, LA

Mr. Hamm provided structural design management, coordination and technical review for the recently completed Trickling Filter Improvements project consisted of a 119-mgd pump station design, including a dual-side wet well containing four 600-hp recirculation pumps and six 250-hp effluent pumps, as well as large diameter (40-inch – 84-inch) steel piping. The well construction required a nearly 50-foot-deep excavation in very challenging soils within the Mississippi River escarpment. Both the wet well structure and the new electrical building will be pile supported.

Lead Structural Engineer, AWT Membrane/Ozonation Facilities – Phase 1, Clark County Water Reclamation District, NV

Mr. Hamm designed upgrades to the 30-mgd tertiary treatment process at the Advanced Water Treatment Facility. The project included a Drum Screen Facility, a Membrane Building, an Ozone Contactor and Destruct Facility, and other miscellaneous new structures and modifications to existing structures. The new Drum Screen Facility was designed to utilize existing Flocculation Basins to save on construction budget. The Membrane Building includes 12 membrane cells and associated pipe galleries and a 35 feet tall superstructure with precast concrete wall panels. All of the deep new structures are supported on drilled piers because of compressible soils on site. Shade structures were provided in numerous locations to protect equipment from the harsh desert sun.

Structural Engineer/Technical Reviewer, Peninsula Lift Station No. 2,
Grand Prairie, TX

Mr. Hamm provided technical review and was involved with the design of this lift station, consisting of a 40-foot-deep concrete dry-wet well topped with a CMU building with side rooms supported on drilled piers. High groundwater was a design issue at this site.

Lead Structural Engineer, Palestinian Water Authority Infrastructure Needs
Program, U.S. Agency for International Development (USAID), West Bank

The program consisted of supplying drinking water to 36 villages in the West Bank in six separate projects. Mr. Hamm was the lead structural engineer for the Conveyance and Northeast Jenin Projects. He was responsible for the structural design of the rectangular at-grade concrete Balance Tanks ranging in size from 500 cubic meters to 2000 cubic meters and an elevated 500 cubic meter Balance Tank. Mr. Hamm was also responsible for the design of 2-pump, 3-pump and 4-pump Pumping Stations attached to the Balance Tanks and Booster Pumping Station. Technical challenges included design for UBC Seismic Zone 3 and the coordination of multiple geotechnical conditions and design recommendations. The fast track design of this project was completed in 5 months from start to finish.

Lead Structural Engineer, Redesign of Inverted Siphons for Reach ST-1C of the
Santan Canal Granite Construction Company, Pima-Maricopa Irrigation Project,
AZ

Mr. Hamm established design criteria, checked design calculations and supervised staff for the design of 9 feet square cast-in-place concrete box culvert siphons to replace 10 feet diameter steel pipe siphons. There were a total of seven crossings under roads, intermittent streams and other box culverts, the longest crossing being 663 feet. The design was fast track, done in two months since construction was already underway.

Structural Engineer, Systems Conveyance and Operations Project (SCOP) –
Boulder Islands Outfall System Clean Water Coalition, Las Vegas, NV

Mr. Hamm designed the final segment of the pipeline carrying effluent from several wastewater treatment plants in the Las Vegas area approximately 13 miles to Lake Mead. The structural work consisted of the Diffuser Control Structure, a meter vault, the Access/Air Intake Structure and the Air Return Manifold Box. The Diffuser Control Structure is a large buried reinforced concrete structure, 18,000 SF in area and more than 40' below grade with soil cover over the roof. The design was put on hold at 90 percent.

Structural Engineer, Corona Del Mar WTP Phase 2 Upgrades and Modifications,
Goleta, CA

Mr. Hamm was responsible for the structural design and preparing the contract documents for this design-build project in UBC seismic zone 4. The project consisted of modifications to flocculation and sedimentation basins, filter buildings and gallery, and staff/maintenance and shop buildings, and design of a new chemical storage and feed building, a lab-administration-control building, and several yard structures. Construction services during construction was also included.

Structural Engineer/Technical Reviewer, Chlorination Improvements,
Laredo, TX

Mr. Hamm was involved in the design and provided technical review of the contract documents. The project consisted of modifications to existing chlorine storage buildings and design of new chlorine storage buildings throughout the city's wastewater treatment system.

Taylor Nolan

Associate Civil Engineer
MWH Americas, Inc.

Education/Licenses

- ✓ BS, Civil Engineering,
University of New Orleans
- ✓ BS, Physics, Loyola
University of New Orleans
- ✓ Engineer Intern, Louisiana

Mr. Nolan was recently hired to a full time position at MWH in August 2011. Previous to that he interned at MWH for 4 years in which he performed Data Management, Geographic Information Systems, Database Development and Field Survey related tasks for collection system evaluation studies (CSES) .

Project Experience

Sewage and Water Board of New Orleans

Emergency Sewer System Assessment Phase I & II (ESSA), New Orleans, LA
Mr. Nolan served as a data analyst for ESSA. The purpose of ESSA I and ESSA II were to assess the condition of the New Orleans sewer system post-Hurricane Katrina and recommend needed repairs due to damage caused by the storm. Taylor helped develop and maintain the database used to catalog all asset inspections. He analyzed data received to determine line segments requiring cleaning, CCTV and repairs. In addition, Mr. Nolan created GIS maps for use by field crews and QA/QC'd field work performed.

Sewage and Water Board of New Orleans Sewer System Evaluation and Rehabilitation Program (SSERP), New Orleans, LA

Mr. Nolan served as an Associate Civil Engineer for SSERP. The New Orleans Sewer System Evaluation and Rehabilitation Program (SSERP) was developed in response to U.S. Environmental Protection Agency (EPA) mandates and MWH was retained as the City's program management consultant. Mr. Nolan reviewed contract documents and construction contractor submittals for compliance. He created GIS maps for repairs performed. Also, Taylor reviewed CCTV line segment footage to determine repairs.

CATAGORY	COST PER HOUR STRAIGHT TIME
Project Manager	\$225.00 Two hundred twenty-five dollars
Operations Manager	\$200.00 Two hundred dollars
Project Coordinator	\$175.00 One hundred seventy-five dollars
Field Supervisor	\$150.00 One hundred fifty dollars
Dump Site/Tower Monitor	\$75.00 Seventy-five dollars
Truck Certification Monitor	\$75.00 Seventy-five dollars
Crew Leader	\$125.00 One hundred twenty-five dollars
Supervisor – Data Management	\$135.00 One hundred thirty-five dollars
Loading Site Monitor	\$75.00 Seventy-five dollars
Debris Surveyor/Scheduler/Monitor	\$85.00 Eighty-five dollars
Data Entry Clerks	\$65.00 Sixty-five dollars

The above qualifications are submitted by:

COMPANY NAME: MWH Americas, Inc.

DATE: January 11, 2012

NON-COLLUSION AFFIDAVIT

State of Louisiana
Washington parish

“Washington Parish: Stand-by Debris Monitoring and Recovery Services 2012 – 2015”

I, SUSAN NOLAN, being first duly sworn, depose and says that:

1. He/She is the VICE PRESIDENT of MWH AMERICAS INC., the proposer that has submitted the attached proposal;
2. He/She is fully informed respecting the preparation and contents of the attached proposal and of all pertinent circumstances respecting such proposal;
3. Such proposal is genuine and is not a collusive or sham proposal;
4. Neither the said proposer nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly, with any other proposer firm or Person to submit a collusive or sham proposal in connection with the contract for which the attached proposal has been submitted or to refrain from proposing in connection with such contract, or has in any manner, directly or indirectly sought by agreement or collusion of communication or conference with any other proposer, firm or person to fix the price or prices in the attached proposal or of any other proposers, or to fix any overhead, profit or cost element of the proposal price of the proposal of any other proposer or to secure through collusion, conspiracy, connivance or unlawful agreement any advantage against the Washington Parish Government or any person interested in the proposed contract; and
5. The price or prices quoted in the attached proposal are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the proposer or any of its agents, representatives, owners, employees, or parties in interest including this affiant.

Susan M. Nolan (Seal)
VICE-PRESIDENT
Title

SUBSCRIBED AND SWORN TO BEFORE ME,

This 11th Day of March, 2012
NOTARY PUBLIC [Signature] 5726-1
My Commission Expires: March 2015

PROPOSER'S RFP CERTIFICATION FORM

To Whom It May Concern:

I have carefully examined the Request for Proposal and any other documents accompanying or made a part of this Request for Proposal.

I hereby propose the hourly rates to be a "not to exceed" amount. Hourly rates shall include all applicable overhead and profit. I agree that my proposal will remain firm for a period of up to 90 days in order to allow the Washington Parish Government adequate time to evaluate the proposals.

I certify that all information contained in this proposal is truthful to the best of my knowledge and belief. I further certify that I am duly authorized to submit this proposal on behalf of the firm as its act and deed and that the firm is ready, willing and able to perform if awarded the contract.

I further certify, under oath, that this proposal is made without prior understanding, agreement, connection, discussion, or collusion with any other person, firm or corporation submitting a proposal for the same product or service; no officer employee or agent of the Washington Parish Government or any other proposer is interested in said proposal; and that the undersigned executed this Proposer's Certification with full knowledge and understanding of the matters therein contained and was duly authorized to do so.

It is distinctly understood that the Washington Parish Government reserves the right to reject any or all proposals.

Federal Tax ID: 95-1878805
NAME OF FIRM MWH AMERICAS INC.
State of Louisiana License No. 28316
Phone: 504-581-6900
Fax: 504-581-6909
Email: SUSAN.N.NOLAN@MWHGLOBAL.COM

NAME & TITLE, TYPED OR PRINTED
SUSAN NOLAN
VICE PRESIDENT

MAILING ADDRESS
1340 POYDRAS ST. STE #1420
NEW ORLEANS, LA 70112
CITY, STATE, ZIP CODE

AUTHORIZED SIGNATURE Susan N. Nolan

Subscribed and sworn to before me this 17TH day of JULY, 2012

Notary Public
[Signature] 5726-1

My Commission expires:
JANUARY 2015
Seal