

March 12, 2019

Ms. Catherine Douglass
Department of Treasury, Division of Property Management
Construction
Contracts & Procurement Unit
33 West State Street, 9th Floor
Trenton, New Jersey 08608

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TREASURY UNIT
PROCUREMENT

Re: **Proposal – Demolition Consultant Multiple Award Term Contract TC-004 – DPMC Project P1194-00**

Dear Ms. Douglass:

AECOM Technical Services, Inc. (AECOM) is very excited at the opportunity to work with New Jersey Division of Property Management & Construction (DPMC) on this important contract. Having held the previous contract for these services under our legacy company, URS, we have a profound understanding of this program. Our team of experts also have experience with the State of New Jersey's HUD CDBG Superstorm Sandy initiatives and multiple IDIQ contracts for FEMA, as well as other demolition projects. For this program, we have augmented our team with USA Environmental Management, Inc. who has worked with us on the prior Demolition Term Contract.

The AECOM team brings the following advantages to DPMC for the Demolition Consultant Term Contract:

- ▶ **A Highly Qualified Program Manager to Lead the AECOM Team:** Kristy Gasparino has 14 years of experience in the areas of program and project management; project scheduling, cost estimating and cost control; contract management; environmental (multimedia) and social due-diligence; environmental investigations and remediation; and permitting. Throughout her career, Ms. Gasparino has been involved in the program/project management of projects comprised of multi-disciplinary teams across multiple locations. Her experience includes serving as the Program Manager for the USPS Program Management Support Contract in which she commits resources to complete task orders generally assigned on a weekly basis.
- ▶ **An Extensive Portfolio of Local Demolition Projects:** AECOM has been involved with hundreds of renovation projects ranging from very aggressive demolition to minimal "controlled" demolition work. Our services have included comprehensive design, environmental and construction services for small and large local demolition projects, including Green Brook Demolition and Floodproofing for US Army Corp of Engineers in Somerset and Middlesex Counties, New York City Department of Sanitation M1 Garage Demolition, Bristol Myers Squibb Transformation Project in Syracuse, New York; and New York City Department of Transportation Harper Street Yard Facility Upgrade.
- ▶ **Extensive Experience with HUD CDBG Programs:** AECOM successfully processed more than 35,000 housing applications and administered hundreds of CDBG infrastructure projects. The knowledge gained and lessons learned provide a foundation for successful program delivery to DPMC. As an example, AECOM worked on the NJDCA's Renovate, Rehabilitate, Elevate and Mitigate (RREM) New Jersey Block Grant Disaster Recovery Program. In addition, our team provided full service program management to the Mississippi Development Authority for the implementation of the \$5.4B Hurricane Katrina HUD CDBG Recovery Program.

- ▶ **In-Depth Knowledge of the Procedural, Technical and Graphical Specifications as Defined by FEMA:** Our experience has been gained through working with four FEMA regions, including Region II, by supporting FEMA under multiple successive IDIQ contracts for over 18 years, and serving as FEMA's "go-to" provider of expert technical services nationwide. We provide on-site and office based support to FEMA at all phases of the disaster lifecycle, from hazard mitigation planning, immediate response and recovery assistance support, to long-term post-disaster compliance support. Over the years, AECOM has provided disaster recovery services to FEMA since 1995, supporting more than 600 disaster declarations in 49 states and 5 US territories. Since 1995, through multiple contracts worth over \$200 million, we have been providing Flood Insurance Studies and Digital Flood Insurance Rate Map development and production services to FEMA nationwide as part of the Map Modernization Program and now Risk MAP.
- ▶ **Understanding and Knowledge of DPMC and NJDEP Policies and Procedures:** AECOM has held several past and ongoing contracts with DPMC for projects with the New Jersey Department of Environmental Protection (NJDEP) and are quite familiar with the contracting protocols, reporting procedures, invoicing processes and forms. In addition to the previous iteration of this demolition contract, AECOM delivered a similar DPMC/NJDEP Term Contract (Contract #P1066-00) entitled "TC-007 Floodplain Mapping Multiple Award Term Contract" in which we are performing surveying services, hydraulic and hydrologic services and preparing floodplain mapping depicting flood risk. Our ongoing experience with a DPMC/NJDEP projects demonstrates our familiarity with the agencies contracting procedures and the interrelationship between DPMC the State's contracting agent and NJDEP the contracts end user. Also, in 2013, NJDEP contracted AECOM (Legacy URS) to support the Superstorm Sandy HUD funded CDBG-DR Housing Recovery for New Jersey. We have worked under various site cleanup programs such as Environmental Cleanup Responsibility Act (ECRA) and subsequently the Industrial Site Recovery Act (ISRA). Our local environmental professionals, including nine Licensed Site Remediation Professionals (LSRPs), have gained their expertise not only through our project work, but also through a long history of working with the NJDEP.

We recognize the importance of this Demolition Consultant Term Contract and look forward to continuing a successful working relationship with DPMC. Should you have any questions, please do not hesitate to contact me directly at 973.883.8683 or by email at kim.vierheilig@aecom.com.

Sincerely,



Kim Vierheilig, AIA, LEED AP BD+C
Vice President, Managing Principal
Kim.Vierheilig@aecom.com

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01. Organization Chart/Staffing Plan

Introduction

AECOM is a leading provider of design, engineering, and construction services and is recognized by *Engineering News-Record* as the **#1 Design Firm** for General Buildings. For this Demolition Consultant Term Contract, AECOM has assembled a qualified and experienced team of professionals in site investigation and remediation; engineering and architectural design; and construction management. The combined experience of our team reflects the experience of organizational leadership, policy and procedure development at the programmatic level, a production focused management process, including time-saving techniques, procedures and significant construction oversight experience. The AECOM staff has worked together on previous projects and we propose to keep the same well-structured and efficient team to meet the specific needs of DPMC and NJDEP. We believe you'll find our team provides outstanding experience and an exceptional level of capability in professional consulting services to support this contract.

Our team has effectively combined AECOM's knowledge of HUD and FEMA requirements and NJ codes to produce documents that will meet all the program requirements, meaning efficient municipal review and demolition operations.

Our Clifton, NJ architectural and environmental practice has provided design services to federal, state, and local municipalities for the past 30 years. We have been responsible for major complex task order projects organized to meet aggressive schedules with a constant flow of multiple/simultaneous assignments, similar to the important work included in this RFP.

AECOM Technical Services, Inc. exceeds DPMCs' prequalification for Civil Engineering. We are also prequalified in architectural, engineering (MEP, structural etc.) and estimating.

AECOM

- ▶ **A leader in providing professional Design and CM services in the New Jersey/New York metro area.**
- ▶ **Extensive experience in HUD CDBG Programs, including NJDCA RREM Program.**
- ▶ **Long and successful working relationship with FEMA through numerous IDIQ contracts.**
- ▶ **Exceptional local and national demolition project experience.**
- ▶ **Highly qualified staff dedicated to this project with direct experience working in New Jersey.**
- ▶ **A depth of resources with more than 2,000 in the local area to address project tasks, if needed.**

AECOM is uniquely qualified to provide you with full-service support. **We bring to the table an understanding of regulatory issues, design and permitting capabilities, and the knowledge of the technical aspects of demolition through our combined team strength of engineers, environmental specialists, and construction services staff. For example:**

- **AECOM has extensive demolition project experience.** The facility demolition that has occurred in many of these projects has also included a broad range of areas to be demolished, including structural, mechanical, and electrical interiors demolition, along with asbestos/lead paint abatement. **Our local experience includes such projects as New York City's Department of Sanitation's M1 Garage Demolition, Bristol Myers Squibb Transformation Project, Green Brook Demolition and Floodproofing, and New York City Department of Transportation Harper Street Yard Facility Upgrade.**
- **AECOM has extensive experience in HUD CDBG programs.** We successfully processed more than 35,000 housing applications and administered hundreds of

CDBG infrastructure projects. The knowledge gained and lessons learned provide a foundation for successful program delivery. **As an example, AECOM has worked on the NJDCA's, Renovate, Rehabilitate, Elevate and Mitigate (RREM) New Jersey Block Grant Disaster Recovery Program. AECOM also provided full-service program management to the Mississippi Development Authority for the implementation of the \$5.4B Hurricane Katrina HUD CDBG Recovery Program.**

- **Nationally, for more than 20 years, as a joint venture partner of the Nationwide Infrastructure Support Technical Assistant Consultants (NISTAC) team supporting the Federal Emergency Management Agency (FEMA),** AECOM has provided technical assistance in response to disasters throughout the United States valued at more than \$250 million. We have completed more than 275,000 inspections and evaluated more than 45,000 projects exceeding \$4.5 billion in construction cost.

Safety is of paramount importance to our team in every activity we perform. AECOM is committed to the safety of our staff, contractors, and the general public for DPMC's demolition projects. Our safety culture is rooted in behavior-based safety, both on and off the job, to ensure our safe habits result in the goal that "nobody gets hurt". Safe behavior is reinforced through daily safety focus meetings, job safety analysis, observations/feedback, and meeting frequently with our team members to review focus topics and share lessons learned. Each year, since 2006, all employees have been required to complete Behavior based Safety training.

We promote a Zero Accident Culture on ALL of our projects.

"Safety for Life" is AECOM's comprehensive internal program that drives our employees toward the company's commitment to achieving zero work-related injuries and illnesses, preventing damage to property and the environment, and maintaining an environmentally friendly and sustainable workplace.

Whether located on a project site, in the office or at home, we embrace safety as a lifestyle choice by maintaining essential safety procedures and behaviors everywhere we go.

Key Management and Support Staff

Program Manager: Kristy Gasparino, AIA, NCARB, LEED AP. Ms. Gasparino has 14 years of experience in the areas of program and project management. Based in the Clifton, New Jersey office, she has worked as a program and project manager on a variety of project types, including federal, education, public housing, public works, commercial, and high performance buildings. Project experience ranges from feasibility studies to design, from construction manager at risk services to national program management. Ms. Gasparino coordinates across internal practices and business units to deliver a unified experience with an eye toward design excellence, quality delivery, cost management, customer service, and client satisfaction..

QA/QC Manager: Majed Khoury, PhD, PE. Dr. Khoury has 40 years of experience in geotechnical and civil engineering. Dr. Khoury has directed and/or managed staff and projects associated with large task order environmental and civil engineering projects. As QA/QC Manager, he makes sure that the quality of the product meets the requirements of the contract and the client. He assures services we provide are in accordance with our standard of practice and a quality deliverable is achieved. He regularly performs quality project audits, which also address adherence to schedule and budget. His experience includes numerous New Jersey municipalities, counties and clients, and numerous building projects in New York.

Health and Safety Manager: Ms. Stacy Wells, MPH, CSP, CHST. Ms. Wells serves as the Clifton, New Jersey office Health and Safety Representative. She has extensive experience in environmental, health and safety compliance in warehousing, manufacturing, and R&D environments. Her areas of expertise include: health and safety audits, employee training; incident investigations; job hazard analysis; field safety monitoring; exposure assessments; waste management and radiation safety awareness.

Permit Coordination and Approvals: Ms. Sherri Albrecht, PWS. Ms. Albrecht is a senior ecologist specializing in regulatory compliance, including: permitting under the Clean Water Act, State wetland, floodplain and coastal regulations, NEPA compliance, ecological evaluation and habitat characterization, and wetland delineation/restoration, with focus on New Jersey Land Use Permitting and related agency coordination.

Construction Administration and Oversight Manager: Jens Muller, RA. Mr. Muller has 17 years of experience in project management and construction management. This experience has been built from successfully performing assignments with increasing levels of responsibility in wide areas of construction, architectural design, project planning and implementation of systems and programs.

Staffing Plan Overview

AECOM has developed a comprehensive management approach with a proven track record in accomplishing the efficient and cost effective services to assist NJDEP and DPMC. As prime consultant, AECOM will bear sole responsibility for all product deliverables and provide NJDEP a single point of contact to address all coordination between NJDEP and the team.

USA Environmental Management, Inc., (USAEMI) is a full-service environmental engineering, consulting and management firm, established in 1994. The firm specializes in designing and implementing environmental solutions tailored to regulatory requirements and client priorities. USAEMI is especially well grounded in asbestos inspection, design and monitoring services; underground storage tank investigation and closure; and industrial health and safety issues such as indoor air quality, hazardous materials, and job safety. Their staff of 45 is comprised of engineers, geologists and scientists with broad experience and diverse backgrounds, who have a firm grasp on the numerous details of construction and renovation.

Many USAEMI staff has construction as well as environmental experience. USAEMI presently employs eight asbestos safety technicians, many of whom are EPA-accredited building inspectors, management planners, and project designers. USAEMI employs five experienced Asbestos Project Designers, four mold experts, four Lead Inspector/Assessors and two New Jersey certified Subsurface Evaluators. When a project demands peak manning or specialized experience, our depth in this area provides support that many competitors cannot match.

USAEMI Project Experience:

USAEMI's work experience associated with various State of New Jersey Term Contracts/Projects relevant to the TC-004 include; Asbestos Sub-Consultant for NJDEP Demolition Consultant Term Contract TC-008 (DPMC Project P1103-00); Agency Consultant for NJDEP Asbestos Design/Indoor Air Quality (DPMC Project W0260-00); Agency Consultant for NJDOC Environmental Consulting (DPMC Project D0261-00); Agency Consultant for NJMVC Environmental Consulting (DPMC Project Y0209-00); and Agency Consultant for NJDOT Environmental Consulting (DPMC Project Y0205-00).

Current Work Load

One of the advantages of being such a large firm with great depth of resources is the ability to accept new projects while honoring our existing commitments.

AECOM' projected workload anticipates the absorption of work presented by this assignment without difficulty, even in the event of a significant increase in the project's scope. In addition, we have the resources available to commence work immediately, seamlessly and with no learning curve. The key personnel we introduce are available upon notice to proceed to perform the services associated with this project. Our key staff members have repeatedly achieved their project's scheduling goals and have responded to our clients' needs.

In addition, we will have the availability of other staff as necessary, from the various offices within the relative proximity of the project sites. Our Team prides itself on the quality of our professional staff and the ability to meet every challenge that our profession demands. In many cases, if we need to tap into those resources, we can have additional personnel placed at the site either part-time or permanently.

Team Organization

The Organization Chart in this section summarizes the reporting chains of the exceptionally skilled staff specifically assembled to ensure that we provide you our highest level of service. The resumes and "Project Key Personnel List" attached in this section highlights the work experience and provides a summary of the anticipated project commitment for each key staff member provided on the organization chart. The roles and responsibilities of each of the proposed staff members selected for this project and a summary of their qualifications are detailed in this section.

The AECOM Team has a staff of more than 2,000 qualified professionals in the New Jersey Metropolitan area. **This dedicated and diverse group of professionals consists of civil engineers, geotechnical engineers, geologists; construction specialists; environmental engineers, scientists and technicians; LSRPs, asbestos and lead certified specialists; architects, planners; and GIS and CADD operators.** It is supplemented, as needed, with in-house technical specialists such as mechanical engineers, electrical engineers, schedulers, specification writers, and cost estimators.

AECOM's office in Clifton, New Jersey has exceptionally strong civil engineering, environmental and construction services capabilities. This office will provide excellent coverage throughout the state. Our team will provide DPMC the depth of resources, which will allow our project team to respond to Work Orders in a timely and efficient manner.

PROJECT KEY PERSONNEL LIST

FIRM NAME	KEY PERSONNEL & TITLE	PERCENTAGE OF TIME ASSIGNED TO PROJECT							
		DESIGN DEVELOPMENT PHASE	FINAL DESIGN PHASE	PERMIT APPLICATION PHASE	BIDDING & AWARD PHASE	CONSTRUCTION		CLOSE OUT PHASE	HOURLY WAGE LEVEL 1-7
AECOM	Kim Vierhellig, Principal in Charge	2%	3%	2%	1%	2%	2%	2%	7
AECOM	Majed Khoury, Quality Control/Assurance Manager	3%	4%	1%	3%	1%	1%	2%	7
AECOM	Kristy Gasparino, Program Manager	20%	20%	5%	5%	5%	5%	10%	6
AECOM	Jeffrey Burke, Technical Lead	5%	5%		2%				6
AECOM	Stacy Wells, Health and Safety		3%			2%	10%		4
AECOM	Humberto Morales, Project Manager	20%	20%	5%	5%	10%	10%	15%	5
AECOM	Abigail Benjamin, Project Manager	20%	20%	5%	5%	10%	10%	15%	5
AECOM	Gerald Andrada, Project Manager	20%	20%	5%	5%	10%	10%	15%	5
AECOM	Christine Wagner, Site Assessments Task Leader	30%		8%					4
AECOM	Eric Bodnar, Plans & Specifications Task Leader, Bid Support	30%	25%		30%				4
AECOM	Akta Patel, Environmental Compliance Task Leader	15%	20%	20%		5%			4
AECOM	Sheri Albrecht, Permit Coordination & Approvals Task Leader	5%	5%	45%		5%			4
AECOM	Jens Muller, Construction Administration & Oversight Tasks Leader				10%	10%	20%	20%	4
AECOM	Gary Bodine, Field Inspections and Project Closeout Technical					10%	50%	30%	4
AECOM	Ann Terranova, Public Outreach & Participation		5%				10%		5
AECOM	Cathy Bryant, LSRP		8%	2%					5
AECOM	Marion Craig, LSRP		5%	5%					5
AECOM	Stephen Tull, Historic/Archeology	3%					7%		6
USAEMI	John Duggan, USAEMI Environmental Principal	2%							7
USAEMI	William Weisgarber, USAEMI Program Manager	20%	2%	3%			5%		6
USAEMI	Mark Jenkins, USAEMI Project Manager	40%	2%	3%			5%		5
USAEMI	Richard Reynolds, Asbestos/Lead Paint Task Leader	20%					3%		4
USAEMI	Wayne Martin, Asbestos/Lead Paint Technical Resource	20%					3%		3
USAEMI	Mathieu Chapuis, Asbestos/Lead Paint Technical Resource	20%					3%		1

INSERT THE WAGE LEVEL FROM 1 TO 7 OF EACH KEY PERSON. **DO NOT** INSERT ANY HOURLY RATE

Kim Vierheilig, AIA, LEED AP BD+C

Principal in Charge

Education

New Jersey Institute of Technology, Bachelor of Architecture

New Jersey Institute of Technology, Master Science in Management

Registrations

Registered Architect: NY, DC, FL
LEED Accredited Professional, BD+C

NCARB Certification

Affiliations

American Institute of Architects
Architects League of Northern New Jersey

Kim is a Vice President, New Jersey Managing Principal at AECOM driving strategy, growth and delivery for the firm's Buildings + Places Business Line. She is committed to excellence and innovation in disciplines which include Architecture, Building Engineering, Interiors, Design + Planning/Economics, Strategy Plus and Asset Advisory.

Kim specializes in designing education, hospitality, healthcare and commercial facilities. Bringing a value-added approach to her clients' projects, her designs have been featured in numerous publications during the course of her career.

Experience

Verona Board of Education, Verona, NJ. The project includes performing an assessment of needs for their facilities, budgeting and prioritizing the projects based on needs and educational requirements. The project will require schematic planning, LRFP update, preparation of Educational Specifications and submission to the Department of Education, and Construction Documents and Administration.

NJDOT Ramsey Maintenance Facility, Ramsey, NJ*. Project Architect. Design of major renovations, which includes exterior masonry repairs, a new 4,000 gallon diesel tank, replacement of a large window area with an insulated translucent fiberglass sandwich panel system, new windows in the office area, new interior office space, new HVAC and plumbing system, new maintenance garage doors, new interior and perimeter lighting, new generator, modifications to the electrical systems and fire suppression systems and minor site improvements.

Cleveland Elementary School, Orange Board of Education, Orange, NJ*. Educational Planner. Design consultation services for the proposed additions and renovations to Cleveland Street Elementary School. The proposed addition of 11,500 sf will supplement the existing school with a new main entrance at ground level, multipurpose room with stage, prep kitchen with servery, three-story link with elevator, and boys and girls toilet rooms

located on all three floors. The project will also provide renovations to the existing school, including conversion of existing basement areas to provide main office, media center, as well as art, music, science, and computer instructional areas. Site improvements and capital improvements to the existing building will be provided.

Port Monmouth Elementary School, Keansburg Board of Education, Port Monmouth, NJ*. Educational Planner. Proposed additions and renovations to Port Monmouth Elementary School. The proposed one-story, 27,150 sf addition and renovation of the existing school will provide 21 new pre-school rooms, a renovated main office, a renovated motor skills room, a new child study team wing, new Nurse's suite, and a new 1,400 sf food service area.

NJ Motor Vehicle Commission Site Study, NJ*. Project Manager. Site study for the New Jersey Motor Vehicle Commission. Data assembled into prototypical floor plans for three (3) building types: small storefront agency, large storefront with driver testing and standalone agency with driver testing and restoration and suspension.

Woodbridge Board of Education, Woodbridge, NJ*. Project Manager and Educational Planner. Assessment of all existing facilities within Woodbridge School District, updated LRFP and prepared documents for the \$50M Referendum. The project included the Ross Elementary School, a new three-story 87,000 square foot K-5 school and \$20M in additions and renovations to the Woodbridge Middle School.

Fair Lawn High School, Fairlawn Board of Education, Fair Lawn, NJ*. Project Architect. Design of the new addition to the Fair Lawn High School. Worked with the Fair Lawn Board of Education to develop long-range facility plans, educational specifications, conceptual designs and cost estimates. Provided assistance to obtain state funding, Department of Education approvals and the referendum process. Designed new staff offices including new child study team area, new guidance area and new nurse's area.

*experience prior to joining AECOM

Principal in Charge

Alpine Board of Education, Alpine, NJ*. Project Architect. Provided architectural services for the addition of Alpine School. Worked with the Alpine Board of Education to develop plans, specifications and cost estimates. The proposed addition includes a state-of-the-art performing arts center, music room, expanded media center, small group instruction rooms, improved circulation and an instructional courtyard.

Verona Board of Education, Verona, NJ*. Project Architect. Renovations and Additions to six schools in the Verona school district. Worked with the Verona Board of Education to develop educational specifications, conceptual designs and cost estimates for each of the projects. Completed a \$31 million referendum for additions and renovations to two elementary schools, the Middle School and the High School.

Cresskill Board of Education, Cresskill Board of Education*. Project Architect. Renovations to the existing Middle School and the design of the new addition to the Cresskill High School. Worked with the School Board to develop long-range plans, educational specifications, conceptual designs and cost estimates. Provided assistance to obtain state funding and Department of Education approvals and assisted with the referendum process.

Immaculate Heart Academy, Washington Township, NJ*. Project Manager. Renovation of four classrooms at Immaculate Heart Academy (IHA) to STEM, Biology and Computer 3-D Modeling Labs. These renovations are in a response to the program's core focus is on the four C's including communication, creativity, collaboration and critical thinking. The traditional classrooms in which lecture and lab were in separate areas, are now in one classroom where lecture and experiments happen simultaneously.

James Monroe Elementary School, Edison Board of Education, Edison, NJ*. Project Manager. New two-story, 67,000 sf school was constructed on the site of the former school which was destroyed in a fire March 2014. The new educational facility was designed to provide modern classrooms filled with daylight and LED light fixtures with daylight harvesting and motion sensors for energy efficiency. The school provides specialized instructional spaces and components of holistic design to increase student performance. The design focused on color theory and providing energetic learning environments to the students. The school has a community wing for after-school programs open to the surrounding neighborhood.

Woodbrook Elementary School, Edison, NJ*. Project Manager. Addition and various renovations for Woodbrook Elementary School to accommodate the growing student population. The new addition includes six general classrooms, a SGI room, instrumental music room, gymnasium and performance stage, cafeteria, kitchen, storage room, restrooms, mechanical room, a new lobby, and improved circulation.

Menlo Park Elementary School, Edison Board of Education, Edison, NJ*. Project Manager. Provided design services for a new 19,000 sf addition for Menlo Park Elementary School in Edison, NJ. The addition included a state-of-the-art gymnasium and performance stage, eight new classrooms, and an instrumental music room. The 4,900 sf gymnasium features basketball courts and rock climbing walls for physical education classes, as well as a performance stage for band and choirs. The exterior of the building was designed with brick and metal panels that match the existing school building to reflect one cohesive and modern design.

Leonia High School, Leonia Board of Education, Leonia Board of Education*. Project Manager. Design for a classroom addition, Culinary Art Classroom, and a cafeteria expansion for the Leonia School District. Nestled between the new addition and the existing school, a terraced courtyard was incorporated for new lesson plans. With all the new programmatic space and renovated areas throughout the school, also provided various mechanical upgrades for the school.

Aerospace Classrooms, Bergen County Technical Schools, Teterboro, NJ*. Project Manager. Conversion of an existing auto body shop into a new Aerospace Classroom, divided into three distinct learning spaces: the Engineering Lab, the Assembly Studio, and the Prototype Workshop. The Aerospace Classroom is designed as flexible room to host many different types of building and equipment.

Woodbridge Middle School, Woodbridge School District*. Project Manager. Update to one hundred year old school to create a more advanced learning environment, as well as, a welcoming community center for the town's residents. In a complex design scheme, utilizing existing structures while also proposing needed classroom space, created a design that respectfully compliments the existing building. The entire project consists of a new gymnasium and locker rooms, large music and vocal classrooms, six new science rooms, a Creative Commons, Production studio, as well as newly renovated classroom.

*experience prior to joining AECOM

Kristy Gasparino, AIA, NCARB, LEED AP

Program Manager

Education

Master of Architecture,
University of Illinois, Chicago,
2005

Bachelor of Science in
Architecture, The Catholic
University of America, 2003

Registrations/Certifications

Licensed Architect, NY State
NCARB

LEED Accredited Professional

Affiliations

AIA
AIA Academy of Architecture
for Justice Committee
Co-Chair, 2013-2016

Years of Experience

With AECOM: 3
With Other Firms: 11

Ms. Gasparino is an Associate Vice President leading two architectural studios focused on public work, the Federal Studio and the Cities Studio, with projects throughout New York and New Jersey. Based in the Clifton, New Jersey office, she has worked as a program and project manager on a variety of project types, including federal, education, public housing, public works, commercial, and high performance buildings. Project experience ranges from feasibility studies to design, from construction manager at risk services to national program management.

Ms. Gasparino coordinates across internal practices and business units to deliver a unified experience with an eye toward design excellence, quality delivery, cost management, customer service, and client satisfaction.

Experience

DPMC/NJDEP Sandy Blue Acres Acquisition Program, Various Sites, NJ. Program and project manager for demolition design and construction administration services for the DEP Sandy Blue Acres Acquisition Program. Program addressed 100 sites for a \$3 million effort of the demolition, disposal and disposition of buildings and structures on designated properties in the floodways of three rivers and their respective tributaries for return to recreation and conservation. The Blue Acres program included funding from HUD CDBG and FEMA. Environmental issues including asbestos and lead paint were addressed.

Buffalo Municipal Housing Authority, Demolition and Fire Restoration Project, Buffalo, NY. Project Manager for the \$1 million demolition and fire restoration at the Grove St/LaSalle Court Apartments. New construction for the replacement building includes HUD funding. Project is currently out for bid.

US Army Corps of Engineers Project Portfolio, US Military Academy at West Point, NY. Program and project manager for the portfolio of over \$20 million in new construction and repair work at West Point, including new barracks construction, barracks renovation, commissioning services, retaining wall repairs, and dock repairs.

USPS Vehicle Maintenance Facility, Bellevue, WA.

Program and project manager for the \$1.5 million VMF - abatement building demolition and excavation project. Oversaw the local environmental and construction management team responsible for the design and construction oversight. Project included two buildings for demo on a 2.5 acre site; remediation required for the soil contamination remaining after four underground storage tanks were removed 20 years prior.

USPS Program Management Support Contract,

Nationwide. Program manager for the \$252,000,000.00 Program Management Support Contract (PMSC) for the United States Postal Service.

Oversight of an indefinite delivery/indefinite quantity contract providing national program management services to support the Postal Service's facilities-related programs across their portfolio, which includes over 30,000 facilities. Services vary from condition assessments to systems upgrades, design services, and construction manager at risk services.

DASNY Project Portfolio, New York City, NY. Project manager for the portfolio of university repair work across New York City, including the roof replacement at Hunter College, the Wellness Center renovation at the New York City College of Technology, mechanical upgrades at Kingsborough Community College, and de-watering at York College.

Howard County Bureau of Facilities, Howard County Courthouse Expansion and Renovation, Ellicott City,

MD*. Project manager for the renovation and expansion of a historic courthouse in a historic district.

Led the project definition and master planning effort through programming interviews, 20 year court operations projections, feasibility studies, and test fits to accommodate 200,000SF of program. Explored new sites for new building options and reviewed alternatives for financing the project through a public-private partnership. Developed the RFP for P3 new construction.

*denotes experience prior to joining AECOM

Majed A. Khoury, PhD, PE

QA/QC Manager

Education

PhD, Geotechnical Engineering, University of Illinois, 1978

MS, Structural Engineering, Tufts University, 1973

BS, Civil Engineering, Damascus University, 1972

Registrations

1982/Professional Engineer/ NJ/27850

1983/Professional Engineer/ NY/60629

Affiliations

American Society of Civil Engineers (ASCE)

International Society for Soil Mechanics and Foundation

United States Society on Dams (USSD)

Years of Experience

With AECOM: 39

With Other Firms: 4

Dr. Khoury has over 40 years of experience in civil, geotechnical and environmental engineering for infrastructure projects. Dr. Khoury has directed and/or managed staff and projects associated with waste facilities and landfills, dams and reservoirs, cutoff walls, foundation systems, deep excavations, tunnels and highway embankments. Projects under his direction have included multidisciplinary services in civil engineering, geotechnical engineering and the geosciences for private and public clients. From 1995 to 2012 he also managed the operations of the Wayne, NJ URS/Woodward Clyde office with responsibilities including technical, financial, administrative and marketing in both NYC and NJ.

Experience

NYS Office of Parks and Historic Preservation, Various Location, NY. Principal in Charge/Senior Technical Reviewer. Dam inspection and assessment, emergency action planning and other rehabilitation considerations for over 10 dams located in central New York State

NJ American Water Company, Bridgewater, NJ. Technical reviews associated with various flood protection structures including earthen berms, flood walls and gates, and structure buoyancy at the Raritan Millstone Water Treatment Plant in Bridgewater, New Jersey

NYC Department of Environmental Protection, NY. Senior technical reviews of shoreline stabilization studies and design at the Kensico Reservoir in New York.

Senior Technical Reviewer, Atlantic County (2014-2016). Expert technical reviews of various failure investigations and proposed fixes of spillway and related structures at Lake Lenape in New Jersey.

NYC Department of Environmental Protection, NY. Principal in Charge/Senior Technical Reviewer Embankment inspection and assessment, instrumentation evaluations and design of rehabilitation measures for the Ashokan Reservoir in New York.

NYC Department of Environmental Protection, NY.

Principal in Charge/Senior Technical Reviewer. Dam inspection and engineering assessment, emergency action planning and other rehabilitation considerations for over 20 major dams located East and West of Hudson in New York.

NYS Department of Environmental Conservation, NY.

Expert technical reviews of the rehabilitation and rock anchoring design of the Gilboa Dam in New York

Massachusetts Metropolitan District Commission, MA.

Project Manager. Supervised FERC Part 12 Safety Inspection and Analysis of Seismic Stability of earthen Dams at the Quabbin Reservoir in Massachusetts.

Exelon, NJ. Principal in Charge. Safety inspections and evaluations of dam and dikes, Emergency Action Planning, operations and maintenance, and instrumentation monitoring for the Merrill Creek Reservoir System.

Mohawk Power Co., NY. Project Manager. Design and construction monitoring of a one-mile long 100-ft deep plastic concrete cutoff for the Stewarts Bridge Dam abutment in New York.

American Electric Power, Various Locations, OH and VA.

Project Manager. Supervised the design and construction monitoring of two 100-ft deep cement-bentonite cutoff walls to reduce seepage and improve stability of the Muskingum and Clinch River ash retention dams.

Principal in charge/Project Manager, Various NJ Municipalities, Counties and Lake Associations.

Safety evaluations; design of dam rehabilitation measures; dam breach studies; emergency action planning, and remedial construction monitoring for several small dams and reservoirs in New Jersey.

NJ Water Supply Authority, NJ. Project Manager/Director. Supervised geotechnical and hydrogeological site characterization; reservoir leakage studies; dam design; design of automatic instrumentation system; dam breach

*experience prior to joining AECOM

QA/QC Manager

studies and emergency action planning; and monitoring of earthwork construction and the installation of an innovative 75-ft deep soil-bentonite cutoff constructed in two stages for the Manasquan Reservoir System in New Jersey.

NJ Water Supply Authority, NJ. Supervised the evaluation of rapid drawdown options; remedial design to reduce seepage and improve slope stability; and remedial construction monitoring for the Spruce Run and Round Valley Reservoir Complex in New Jersey

Geotechnical Engineering for Buildings and Power Plants. QA Manager, NJ Division of Property Management. Provided senior technical QA reviews of several work products for the Blue Acres Demolition Program in NJ

Principal in Charge/Project Manager/Technical Reviewer, Various Architectural, Structural and Engineering Firms and Corporate Owners in New York, New Jersey and other states. Subsurface soil and rock investigations and development of foundation recommendations/designs for corporate headquarters, high-rises and apartment complexes; investigation and design of support systems for deep excavations in soil and rock; recommendations to limit damage to historic structures from nearby excavations and pile driving in New York City; Resident geotechnical engineering during construction; and senior technical reviews. Key buildings included:

- ABC Studios, NYC
- Columbia-Presbyterian Hospital, NYC
- Cummins Engines Headquarters, IN
- Fraunces Taverns, NYC
- General Foods Headquarters, NY
- IBM Headquarters now Master Card Headquarters, NY
- Jacob K. Javits Convention Center, NYC
- Phillip Morris Headquarters, NYC

NJ Division of Building and Construction, NJ. Project Manager. Supervised the investigations and remediation of methane gas problems at the Newark State Prison in New Jersey.

Project Manager, Weidlinger Associates (1982). Supervised the investigations and remediation of the distress of offshore piles at the Cove Point LNG terminal, Maryland.

Task Leader, Zurn Industries, (1979-1981). Supervised the development of caisson foundation recommendations for the cooling towers at the Hartsville and Phipps Bend Nuclear Stations, Tennessee and the Crystal River Nuclear Station, Florida.

Task Leader, American Electric Power Co (1977-1980). Supervised geotechnical engineering and quality control services for the Davis-Besse Nuclear Station, Ohio.

Task leader, PSE&G (1979). Supervised the evaluation of soil liquefaction potential and slope stability at the Oyster Creek, Salem and Hope Creek Nuclear Generating Stations, New Jersey.

Principal in charge, Modern Continental Co (2001-2003). Geotechnical engineering for the design and construction of Route 3 improvements in Massachusetts (a design-build project).

Principal in charge, Yonkers Construction Co (1997-2000). Geotechnical engineering for the design and construction of the Brigantine Connector in Atlantic City, New Jersey (a design-build project)

Principal in Charge, NJ Department of Transportation (1996-1997). Seismic risk prioritization phase of the New Jersey Bridge Seismic Retrofit program.

Project Manager, Metcalf and Eddy/Middlesex County MUA (1989-1990). Supervised the geotechnical engineering aspects of the construction of a 12-ft diameter, 2/3-mile long outfall sewer tunnel using a "hydro shield" tunnel boring machine and jacking under the Raritan River in New Jersey for the Middlesex County MUA

Principal in Charge/Project Director/Senior Technical Reviewer, NYC Department of Sanitation (1983-2014). Static and seismic stability evaluations; design of automatic stability instrumentation monitoring system to control refuse placement rate; progressive closure design including the storm water drainage and final cover systems; technical reviews and consultation during the design and construction of a 6-mile long soil-bentonite and cement-bentonite cutoff wall for leachate containment; and technical reviews during the construction of the final cover of the Fresh Kills Landfill in Staten Island, New York

*experience prior to joining AECOM

Jeffrey Burke, AIA, LEED AP

Technical Lead

Education

BS Architecture, New York
Institute of Technology, 1992

Registrations

Registered Architect: NY
License No. 031840

LEED Accredited Professional

Affiliations

American Institute of Architects

Jeffrey's 25 years of experience in design and construction have provided him with a solid foundation and the expertise necessary to lead projects from initial project development through completion. His career has been focused on technical and management aspects of large scale private and public projects. He also has significant experience delivering complex projects for developers of both new construction and major renovations. Jeffrey's comprehensive expertise has given him the skills needed to manage the many parts and varied interests of each project while progressing in alignment with the project goals and vision.

Experience

New York Police Academy, New Training Facility, Queens, NY*. Consolidations of multiple training locations from throughout the city into one, world-class facility. The team used phased construction to deliver the new 750,000 SF of academic and physical training facilities. \$650M construction cost.

Memorial Sloan-Kettering Cancer Center, Ambulatory Cancer Care Center (74th Street), New York, NY*. Project Manager from original proposal through the ULURP approval and the completion of the Core & Shell documents for a new 23-story 736,000 GSF ambulatory cancer care center providing Radiation Oncology, Diagnostic Imaging, interventional Radiology, a Phase I Clinic, Hem Onc and High Intensity Infusion, Central Infusion, Thoracic DMT, Head & Neck/Endocrine Clinic, and academic and administrative office.

Memorial Sloan-Kettering Cancer Center, Josie Robertson Ambulatory Surgery Center, New York, NY*. Project manager through BSA approval. Obtained a BSA approval for a 15-story, 172,000 GSF, 10 OR ambulatory surgery center at 61st & York for variances in lot coverage and rear yard dimensions.

Memorial Sloan-Kettering Cancer Center, Mortimer B. Zuckerman Research Building, New York, NY*.

Construction phase services and various redesign elements for the 7-story Phase II portion of the new research laboratory.

North Shore Long Island Jewish Medical Center, Women's Hospital, New Hyde Park, NY*. A new 240,000 SF women's hospital on an existing campus including site make-ready work to prepare the site for the new building.

North Shore Long Island Jewish Medical Center, Forest Hills Hospital Major Modernization & Mater Plan, Queens, NY*. A comprehensive facility analysis, master plan and financial analysis to modernize and expand an urban hospital in Queens, NY. Projected development cost was estimated at \$240 million for 190,000 SF of new and alteration work.

Kings County Hospital Center, Diagnostic & Treatment Facility "Building S", Brooklyn, NY*. Design and construction of a 285,000 SF in-patient diagnostic and treatment facility. Construction cost \$90M. Completed and occupied in 2006.

Kings County Hospital Center, In Patient Bed Tower "Building D" Brooklyn, NY*. Design and construction of a new 240,000 SF, 240 bed in-patient building. Construction cost \$66M. Completed and occupied in 2002.

Kings County Hospital Center, Out-Patient Clinical Facility "Building E" Brooklyn, NY*. Design and construction of an existing building modernization into an out-patient primary care facility. \$37M construction cost. Completed and occupied 2006.

*experience prior to joining AECOM

Stacy Wells, MPH, CSP, CHST

Safety, Health, and Environment Manager

Education

New York City University,
Hunter College, Master of
Public Health, Environmental
Occupational Health Science,
2013

Saint Michael's College, Master
of Arts, Teaching English as a
Second Language, 2007

Bachelor of Arts, General
Studies, Norwich University,
2002

Associate of Science, Safety
Technology, Nicholls State
University, 1999

Licenses/Certifications

Licensed NYC DOB Site Safety
Manager

Certified Safety Professional

Construction Health and Safety
Technician

40 Hour HAZWOPER

NYC DOB 4 HR Supported
Scaffold Use

OSHA 30-hour Construction
Industry

OSHA 30-hour General
Industry

Confined Space Entry/Rescue

Years of Experience

With AECOM:1

Stacy Wells is a Certified Safety Professional (CSP), Construction Safety and Health Technician (CHST), Safety Trained Supervisor (STS) and licensed NYC DOB Site Safety Manager with over ten years of experience in Environmental Health and Safety (EHS) on NYC Department of Environmental projects, including the construction of the Croton Water Filtration Plant.

As the Lead CM EHSO on the Croton Water Filtration Plant project, Stacy's primary role was to monitor work to ensure contractors were following the NYC DEP Policies and Procedures, DEP Standard Operating Procedures, all federal local and state regulations, and their own Environmental Health and Safety Plans. Stacy focused heavily on those activities with higher risk rankings which included: Crane Operations, Lock Out/Tag Out, Confined Space Entry, and Fall Protection/Working at Height. She also provided technical EHS support in areas such as Confined Space Entry and Fall Protection and ensured that when these activities were conducted in accordance with DEP's requirements.

Stacy also provided guidance and technical expertise towards the promotion of both proactive and corrective safety, provided information to the operations, construction management and contractors on a daily basis to ensure good communication and continuity within the project team. She worked day-to-day in a fully integrated manner with the contractor and operations Site Safety personnel and management in order to build a team approach to improving Environmental Health and Safety efforts on-site. She also helped identify excellent EHS behaviors and practices and recognized as appropriate.

Stacy was presented with an individual safety award for Outstanding Vision, Dedication & Commitment to EHS Excellence at the Croton Water Treatment Plant Project by the DEP. The award was presented at the Bureau of Engineering Design and Construction safety forum in NYC in 2017.

Prior to work on the Croton Water Filtration Plant project, Stacy Wells worked on BWT projects to assist in updating their internal Environmental Health and Safety Policies and Procedures including Emergency Action Planning and Emergency Planning and Chemical Right to Know reporting.

*experience prior to joining AECOM

Humberto Morales

Project/Work Order Manager

Education

Bachelor's degree of
Architecture 1992
Wentworth Institute of
Technology Boston, Mass.

Years of Experience

With AECOM: 6
With Other Firms: 16

Mr. Morales has a Bachelor's Degree in Architecture with 20 plus years in the field spent predominantly preparing Construction Documents for bidding and permit procurement. Construction Administration Services are also provided during the construction phase leading up to final completion inspections and punch list compilation and verification. While having worked in Retail Architecture for a number of years Mr. Morales has taken part in Residential, Commercial and Food Facility design throughout the Northeast region.

Recent experience has been related to upgrading facilities in regards to Handicap Accessibility. This has entailed the design and refurbishing of existing facilities to bring them to a code compliant state. This would all lead to site verification of compliant scenarios and the introduction of corrective measures required to finalize and address any issues discovered on site.

Experience

NJ RREM Project, Project Designer, Field Survey and Rehabilitation Drawings Development (DCA State of New Jersey). Coordinated and prepared the prototypical set of drawings for the Rehabilitation component of the NJ RREM program. Preparation of these documents required extensive research into the FEMA generated Technical Reports that are the guidelines followed by the RREM program. Site visits were made to each residence in order to document the extent of damage and establish a Structural identity to the residence in order to facilitate Elevation and proceed with Contract documents. In a handful of cases we were called upon to determine whether the residence that was inspected was structurally sound enough to elevate and rehabilitate or if the best course of action would be to demolish and reconstruct.

NJ Department of Property Management and Construction (DPMC) Demolition of Dwellings, NJ. Project Designer, Field Survey and Assessments in preparation of Demolition Documents. Prepare the Specifications for the demolition of homes impacted by Super Storm Sandy. Site assessments were executed to document existing conditions and calculate quantities for subsequent cost estimating. The final package is closely coordinated with representatives of the DPMC.

Construction phase services are provide in the capacity of Submittal review and Close out efforts to establish Substantial and final completion Milestones. Additional services provide during the biding phase.

Amtrak ADA Stations Program, Various Locations .

Construction Administration Services / Amtrak Contractor Provide CA services that include the review of Construction Submittals and the response to RFI's related to the upgrading of handicap accessibility features to existing train stations throughout the nation. Substantial and Final Completion Inspection land marks with associated Punch lists related to scope of work items, code compliance and quality evaluations Follow through on the close out end also included addressing any issues brought up by the FRA assessment.

United States Military Academy, Renovations to Eisenhower Hall, West Point, NY. Handicap Seating Accessibility Study. Provide corrective design measures that were intended to bring the existing theatre to a code compliant state as per DOTAS requirements.

McDonald's Program, NY. Project Designer, Field Survey and CD Development. Prepared Contract documents for Building Permit Procurement. Field surveyed various Sites for the NYS Thruway McDonald's Remodeling Projects.

NYC DEP East Branch Aeration Pump Station. Project Designer and CD Development. Prepared Contract documents for a 2700 sf masonry and steel facility.

NYC DEP Dutch Kills Aeration and Borden Avenue Pump Station, Queens, NY. Project Designer and CD Development. Prepared Contract documents for a 3500 sf masonry and steel facility designed to house high end water aeration equipment associated with the effort to improve the quality of Newton Creek in the Borough of Queens.

USPS Air Mail Facility, Jamaica, NY. Project Designer and CD Development. Wrote assessment report on the condition of restrooms at this facility. Proposed scope of work that would be required to rehabilitate each location. Based on this report prepared Contract documents and Cost Estimates for the renovation of 44 restrooms in the JFK Air Mail Facility.

*experience prior to joining AECOM

Project/Work Order Manager

Verizon Wireless. Project Designer, Field Survey and CD Development. Developed Tenant Fit-out drawings at various locations nationwide for the 'Verizon Wireless' retailer. These designs were based on a prototypical corporate design which was adapted to each locations unique layout.

Murphy Varnish Building, Newark, NJ. Project Designer, Field Survey and CD Development. Field measured and documented a historically preserved building in the Ironbound section of Newark. Prepared a set of Construction Documents for the Historic Preservation Society of Newark.

Greystone Bakery, Yonkers, NY. Project Designer, Field Survey and CD Development. Worked a Joint venture with Maya Lin to design the new Greystone Bakery in Yonkers, NY. Greystone Bakery is well known for producing a variety of baked goods for the Ben & Jerry ice Cream Company. Developed and coordinated the CD effort for this facility.

*experience prior to joining AECOM

Abigail Benjamin, RA, CNU-A

Project/Work Order Manager

Education
BArch, Architecture,
University of Miami, 2011

Registrations
CNU-A

Affiliations
Congress of New Urbanism

Ms. Bricker has several years of experience in the architectural industry. Her experience includes a broad range of design projects from commercial to residential with a concentration on site planning.

Experience

NJ RREM Project, Field Survey and Rehabilitation Drawings Development (DCA State of New Jersey). AECOM is preparing program policies and procedures and managing the homebuilder prequalification process. AECOM is also working with the State to develop various building options that will be offered to homeowners, and will ultimately serve as construction manager for the work.

Wawa, Inc., Various Locations. Project architect for multi-year on-call contract. to provide architecture and building engineering services at locations throughout the northeastern United States. Projects include site survey, compiling as-built drawings and producing basic store layout drawings, along with contract documents for construction.

Design service consist of Prototypical Home design for multiple two bed, three and four bedroom homes. Units were based on the designs developed for the Texas program by our Grand Rapids office. We have typical designs to choose from.

Buffalo Municipal Housing Authority Demolition and Fire Restoration at Grove St/LaSalle Courts, Buffalo, NY.

New Jersey Reconstruction, Rehabilitation, Elevation, and Mitigation (RREM) Program, 2013-2014. Architectural Designer assisted completing site surveys of homes, design of a master construction document set for use by entire design team and preparation of construction documents on a site specific basis.

USPS Kilmer Site Plan, 2014. Architectural Designer worked on preparing several schemes to accommodate new parking demands on an existing facility due to change in use.

USPS Jersey City Lighting Upgrade, 2014. Architectural Designer assisted in complete site survey of existing lighting conditions and preparation of as-built lighting drawings.

Einstein Noah Restaurants, 2014. Architectural Designer assisting in preparation of construction documents for Einstein remodel and new restaurant projects.

McDonald's Restaurants, 2014. Architectural Designer assisting in preliminary and final branding drawings, as well as construction documents, with a concentration on site planning for McDonald's remodels projects.

*experience prior to joining AECOM

Gerald Andrada

Project/Work Order Manager

Education

Bachelor of Architecture
Architecture, Adamson
University, Manila, Philippines,
1988

Years of Experience

With AECOM: 17
With Other Firms: 10

Mr. Andrada has over 27 years of experience working on the design of commercial office buildings, renovation, restoration and alteration projects for a variety of facility types that includes; corporate headquarters, office fit outs, hospitals, institutional facilities, manufacturing, call centers and residential. He has in-depth knowledge in construction documents, coordination with engineers, Space Planning, and Detailing.

Experience

McDonalds Program, Ground-ups and Major Renovation Projects. Production Manager for the new building and major renovation of McDonalds stores in various sites in different States. Oversees a team of Regional Leads, architects working on a construction documents. To ensure that the team stays on schedule and executes construction documents/projects that conform to McDonald's Program requirements.

United States Postal Service, Kilmer Customer Care Center, Edison, NJ. Job Captain for this Design Build project. Designed and developed the 30% solicitation package for the 370 call center employees for this Design Build project. Worked with USPS in reviewing the construction documents, 929 area space tabulation and ensure to follow the current USPS building design standard.

USPS NJ Bulk Mail Center, Flat Sequencing Systems (FSS) Deployment. Job Captain. Workload includes setting up the 100% construction documents for 150,000 SF interior renovations. Coordination of Operational System Layout (OSL) with USPS Engineering and facility. Develop architectural details, maintained direct client contacts and coordination with engineers.

United States Postal Service, Trenton Processing & Distribution Center, Flat Sequencing Systems (FSS) Deployment, Trenton, NJ. Job Captain. Workload includes setting up the 100% construction documents for 102,000 SF building addition and site alteration. Coordination of Operational System Layout (OSL) with USPS Engineering and facility. Develop architectural details, maintained direct client contacts and coordination with engineers.

United States Postal Service, Mid-Island Processing & Distribution Center Flat Sequencing Systems (FSS) Deployment, Melville, NY. Job Captain. Workload includes setting up the 100% construction documents for 136,000 SF building addition and site alteration. Coordination of Operational System Layout (OSL) with USPS Engineering and facility. Develop architectural details, direct client contacts and coordination with engineers.

United States Postal Service, Morgan Processing & Distribution Center, New York, NY. Job Captain. The project is a relocation of 35,000 SF office space from USPS James A Farley Building to Morgan P&DC (2 million SF building). This project included the entire building systems; mechanical, electrical, fire protection upgrades and a 100,000 sf Green Roof. As Job Captain, workload includes setting up the 100% construction documents for the north building workroom and office tower renovation. Develop architectural details, direct client contacts and coordination with engineers.

United States Postal Service, Flat Sequencing Systems (FSS) Deployment, Various Locations Nationwide. Developed 30% - 100% design documents on 21 Mail Processing Facilities. Workload included: Conceptual design, coordination and collaboration with 10 different AECOM offices in the U.S. Coordinate Operational System Layout (OSL) with USPS Engineering and facility. Review 929 area space tabulation and ensure to follow the current USPS building design standard.

United States Postal Service, Bronx Processing & Distribution Center, Bronx, NY. Job Captain for 300,000 SF facility upgrade. This project included mechanical, electrical, fire protection and architectural upgrades; new loading docks, exterior re-facing & window replacements, new entrance lobbies, canopies, stair, passenger & freight elevator & ADA toilets. Workload included, conceptual design/ construction documents, develop architectural details and coordination with engineers.

United States Postal Service, Wichita Customer Care Center, Wichita, KS. Job Captain for this Design Build project. Designed and developed the 100% Construction Documents for the 350 call center employees. Worked with

*experience prior to joining AECOM

Project/Work Order Manager

USPS in reviewing the construction documents, 929 area space tabulation and ensure to follow the current USPS building design standard.

United States Postal Service, Houston Processing & Distribution Center, Houston, TX. Job Captain for this Design Build project. Designed and developed the 30% solicitation package for the 400,000 SF building addition and 500,000 SF building renovation, and consolidation of 3 facilities, offices and site alterations for this Design Build project. Coordination of Operational System Layout (OSL) with USPS Engineering and facility. Worked with USPS as owner's rep in reviewing Design Build 100% construction documents and CA work.

United States Postal Service, Los Angeles Customer Care Center, Los Angeles, CA. Job Captain for this Design Build project. Designed and developed the 30% solicitation package for the 400 call center employees for this Design Build project. Worked with USPS in reviewing the construction documents, 929 area space tabulation and ensure to follow the current USPS building design standard.

United States Postal Service, Troy Customer Care Center, Troy, MI. Job Captain for this Design Build project. Designed and developed the 30% solicitation package for the 350 call center employees for this Design Build project. Worked with USPS in reviewing the construction documents, 929 area space tabulation and ensure to follow the current USPS building design standard.

United States Postal Service, Richmond Processing & Distribution Center, Richmond, NC. Job Captain for this Design Build project. Designed and developed the 30% solicitation package for the 700,000 SF new building facility and 45 acres site plan development for this Design Build project. Coordination Operational System Layout (OSL) with USPS Engineering and facility. Worked with USPS in reviewing the construction documents, 929 area space tabulation and ensure to follow the current USPS building design standard.

United States Postal Service, Michigan Metroplex Processing & Distribution Center, Pontiac, MI. Job Captain for this Design Build Project. Re-designed the floor layout of the 801,000 SF new building and 60 acres site plan development. Coordination of Operational System Layout (OSL) with USPS Engineering and facility. Worked with USPS staff in reviewing the construction documents, 929 area space tabulation, and implementation and ensure to follow the current USPS building design standard.

Michie Stadium, United States Military Academy, West Point, NY. Job Captain for the 35% architectural/ structural restoration design submission and estimate on Michie Stadium and subsequent restoration documents. Work included assessment of existing conditions and development of restoration details, poured concrete, 45,000-seat football stadium. Einstein Noah Restaurants, Renovation Projects. Job Captain for the renovation of Einstein Bagels stores in various sites in different States. Workload includes setting up the 100% construction documents, Develop architectural details, and coordination with engineers.

United States Postal Service, Southern Maine Processing & Distribution Center, Scarborough, MA. Job Captain for this Design Build project. Designed and developed the 30% solicitation package for the 400,000 SF new building facility and 35 acres site plan development for this Design Build project. Coordination of Operational System Layout (OSL) with USPS Engineering and facility. Worked with USPS in reviewing the construction documents, 929 area space tabulation and ensure to follow the current USPS building design standard.

Sudler Group, Piscataway, NJ. Job Captain for the \$8 mil. 300,000 SF office building renovation & upgrades. This project included building exterior renovation and frame & glazing replacements, lobby renovation, new toilets, stairs, elevators and mechanical upgrades.

WP Commercial, Cedar Knolls, NJ, 10/2001 - 01/2002. Job Captain for the \$6 mil. office building addition and alteration. The project included the conversion of an existing laboratory facility to a office building. Work included 9,000 sq. ft. addition, building facade restoration & upgrades, new ADA stairs, elevators and toilets & lobby renovation.

*experience prior to joining AECOM

Christine Wagner

Site Assessments

Education

MA, Environmental Sciences/
Toxics Option, New Jersey
Institute of Technology, 1989
BA, Biology, Kean University,
1980

Registration/Certification

Organic Data Validation,
NYSDEC
OSHA 40 Hour Hazardous
Waste Health & Safety Training
OSHA 8 Hour Hazardous
Waste Health & Safety Training
for Supervisors
USDOT Hazardous Materials
Transport

Years of Experience

With AECOM: 23

Ms. Wagner has assisted clients in environmental regulatory matters, and has generated Phase I ESA Reports, Subsurface Investigation (Phase II) Reports, Remedial Closure Reports, asbestos abatement specifications and Operations and Maintenance Plans over the course of her 23-years in consulting. She has also directed complex industrial site remedial investigations, and has performed multi-media environmental regulatory compliance audits for various chemical and manufacturing facilities.

Ms. Wagner has participated in and managed over 500 Phase I ESAs and NJDEP Preliminary Assessments. All Phase I ESAs were conducted in accordance with ASTM Standard Practice E 1527. Non-ASTM scope considerations such as the presence of suspect asbestos-containing building materials, radon, lead-based paint, lead in drinking water, wetlands and/or mold were considered and evaluated during the Phase I ESAs.

Experience

Confidential Pharmaceutical Client – Managed five site acquisition Portfolio, Multiple States. Managed Phase I Environmental Site Assessments for five pharmaceutical sites located in North Carolina, Colorado, Massachusetts, and Scotland. In preparation of the acquisition of the properties, each site was evaluated for Recognized Environmental Conditions (RECs) and environmental compliance liabilities.

New Jersey School Development Authority, Remedial Investigation and Remedial Action Workplan, Newark, NJ. Project Manager for proposed school development site. Groundwater investigations revealed light non-aqueous phase liquids (LNAPLs) present on groundwater associated with former residential USTs on-site. Implemented interim response measures including enhanced fluid extraction and recovery via vacuum extraction. Prepared Remedial Action Selection Report (RASR) in preparation of Remedial Action Workplan (RAWP) preparation. A Remedial Action Workplan that included limited excavation and bioremediation of petroleum-affected soil was prepared and submitted to NJDEP. NJDEP approval of the RAWP was obtained in

April 2010. Managed AECOM staff who prepared design specifications for future property use as parking facility.

Atlantic Power/Capital Power – Environmental Compliance Audit and Preliminary Assessment, Kenilworth, NJ. Program Manager and Regulatory Compliance Audit Team leader for environmental compliance audits and NJDEP Preliminary Assessments associated with due diligence activities at power plant in. Audit included review of federal and state air, water, hazardous and solid waste, and community right-to-know compliance, including applicable permits, monitoring data, and local wastewater discharge compliance. PA was submitted to NJDEP in accordance with NJ ISRA regulations.

Dormitory Authority State of New York, NYSOMH, Mold Abatement Projects, New York, NY. Project Manager for mold abatement projects at three OMH facilities in Brooklyn and Queens. Provided project oversight associated with moisture mapping of potentially impacted surfaces and preparation of mold abatement specifications. Conducted contractor oversight during remediation of mold impacted surfaces and encapsulation and reconstruction activities.

Confidential Client - Closure of Two 10,000-gallon Fuel Oil #6 USTs at Lighting Manufacturer, Highland Park, NJ. The USTs were exposed, emptied and removed from the site. Sheen was noted on groundwater during UST closure activities and a spill case was opened with the NJDEP. Post excavation soil sampling revealed soil impacts along fill and return lines. Soils were excavated and disposed off-site and a No Further Action letter was issued by the NJDEP without requirements for groundwater investigations.

Goodrich Corporation, Aerospace Manufacturing Facility, Cedar Knolls, NJ. Based upon a previously completed PA, a total of 23 Areas of Environmental Concern (AECs) were identified at this manufacturing facility. To assist the client in meeting ISRA obligations, a thorough document review with only limited site investigation activities, was completed and a SI Report prepared for submission to the NJDEP. A No Further

*experience prior to joining AECOM

Site Assessments

Action determination was issued by the NJDEP at that time for 20 AECs. Three AECs remaining on-site included (i) trichloroethene (TCE) impacted soil beneath a former loading dock; (ii) one 10,000-gallon fuel oil UST; and (iii) volatile-impacted groundwater in the vicinity of the former loading dock. Remedial investigation and remedial actions were completed including the excavation and off-site disposal of an unknown 500-gallon boiler blow-down UST and of 300 tons of TCE affected soil. The NJDEP issued a No Further Action determination of the soils on-site. Groundwater monitoring was conducted in anticipation of Monitored Natural Attenuation (MNA) with a Classification Exception Area (CEA) as the remedial action.

New York City Department of Environmental Protection, Hazardous Materials Assessment, New York, NY. Project manager for assessments of 360 facilities located throughout New York State. Each facility was evaluated for asbestos, lead-based paint, mercury, and PCBs. Assessment activities focused on worker health and potential for exposure to environmental contaminants. AECOM prepared summary reports for each facility detailing findings and recommendations for corrective actions. All assessments and reports were completed under an accelerated schedule in less than the two-year contract period.

Goodyear Tire & Rubber Company, Retail Facilities, North Brunswick, Montgomery, Parsippany, and Wrightstown, NJ. Project Manager for baseline investigation of Goodyear Tire Service Centers. Managed and conducted Phase I ESAs at each location. Based upon findings, soil and groundwater was evaluated and remedial actions including removal of subsurface hydraulic lifts and excavation and off-site disposal of impacted soil was conducted at the North Brunswick, Montgomery, and Parsippany locations. Excavation and off-site disposal of an oil pit was conducted at both the Wrightstown and Parsippany facilities. All investigations and remedial actions were completed in accordance with the Technical Requirements for Site Remediation (NJAC 7:26E) and the Site Remediation Reform Act (SRRRA). An unrestricted use Remedial Action Outcome (RAO) letter was prepared for each location.

Phase I Environmental Site Assessment (ESA) and Limited Regulatory Compliance Assessment for an Auto Dealership, Maplewood, NJ and Toms River, NJ. The Phase I ESA and Regulatory Compliance Assessments were conducted to assist the client in due diligence activities prior to purchase of the site. After completing this fast-track assessment, subsurface investigations were completed to evaluate potential contamination from historical underground storage tanks (USTs) and hydraulic lift trenches. The field investigation activities were completed during evening and weekend hours to minimize impact to the site operations.

Confidential Client - Eleven Site Portfolio, Multiple States. Managed site investigation activities for a portfolio of eleven manufacturing sites located in NY, NJ, PA, OH and IN. In preparation of the sale of the properties, each site was evaluated via Phase I Site Assessments for Recognized Environmental Conditions (RECs). Each REC was further investigated (soil and groundwater) to evaluate aerial extent of impacts, if any. Based upon findings, cost estimates were developed to remediate each of the sites to meet State-specific criteria. The cost estimates were utilized in property divestiture negotiations. The site investigations at all eleven sites were completed within a 60-day due diligence time frame.

Tyche Power Partners LLC, Brooklyn Navy Yard Cogeneration Facility (BNYCF), Phase I ESA, NY. The scope of work included a visual assessment of the Site, interviews with Site contacts; review of pertinent background and historical information; review of prior assessment documents; contact with appropriate regulatory agencies; prior ownership review; review of chemical and waste handling, storage, and disposal practices; observation of land use on surrounding land; and review of a regulatory database report.

PAR Pharmaceutical Company Inc., Phase I ESA, Spring Valley, Rockland County, NY. Project Manager for Phase I ESA of vacant manufacturing facility. A site visit was conducted, historical records reviewed, and historical site investigation reports assessed to evaluate RECs on-site. The Phase I ESA was performed according to the recommended guidelines established by ASTM Designation E 1527-13, "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process."

Eric Bodnar, PE

Plans & Specifications

Education

Bachelor of Engineering,
Civil Engineering / Stevens
Institute of Technology/ 1990/
Hoboken, New Jersey

Registrations

Professional Engineer. NJ
#42564

Years of Experience

With AECOM. 11

With other firms. 15

Mr. Bodnar is a civil engineer with more than 26 years of consulting experience, providing a broad range of services to private and public sector clients. His area of expertise includes all aspects of commercial, industrial and residential site development, including grading, drainage and utility design, hydraulic modeling and storm water management, as well as extensive experience in municipal capital and infrastructure projects, including sanitary sewer pump station improvements, water main and sewer extensions, and public open space improvements.

Experience

NJDEP Rebuild By Design, Hoboken/Jersey City, NJ.

Lead for the sewer separation and interior drainage portion of Rebuild-By-Design-Hudson River, a multi-discipline project to provide storm surge and flood protection to the Cities of Hoboken & Jersey City during hurricane or other large storm events. Responsible for oversight of the design of new storm sewers, sanitary sewer and utility abandonments, preparation of bid documents and permit support.

Task Order Manager/ Lead Civil Engineer, NYCDEP, Professional Engineering Design Services and Technical Engineering Support (EE-PEDS-13A), New York, NY.

Task Order Manager and Lead Civil Engineer for planning, design, and construction services for the New York City Department of Environmental Protection (NYCDEP), Bureau of Engineering Design & Construction (BEDC), In-House Design (IHD). EE-PEDS-13A involves professional engineering, architectural, and technical services in support of the work of BEDC IHD. Mr. Bodnar provides on-site support services at DEP Headquarters. He delivers task order coordination within IHD and with subconsultants. Since 2014, he has provided site planning, hazard mitigation, survey support, civil design, sustainability review, value engineering, and field management. He supports the following EE-PEDS-13A Task Orders.

- EE-PEDS-13A Task Order 8, Capital Project W-11, Contract CRO-521, Jerome Park Reservoir Architectural Restoration Gatehouse No. 2 Support Services. Task Order Manager/ Lead Civil Engineer for traffic study, sustainability review and civil engineering support including review of technical specifications and traffic & other environmental impacts.
- EE-PEDS-13A Task Order 15, Contract 545J-2, Shaft 15B Site Plan & Hazard Mitigation. Task Order Manager/ Lead Civil Engineer for site planning and hazard fall protection for Contract 545J-2, Shaft 15B on Roosevelt Island, in association with work involving the activation of City Water Tunnel No. 3, Stage 2, Queens/ Brooklyn.
- EE-PEDS-13A Task Order 17, Jerome Park Aqueduct Rehabilitation Project (JPAQ-REH) Design Services. Task Order Manager/ Lead Civil Engineer for civil, drainage and site improvement design as well as coordination of structural, environmental/ geotechnical design, and testing services for repair and rehabilitation of 120 year old reservoir in Bronx, NY.
- EE-PEDS-13A Task Order 19, Coney Island Survey & 3D CADD: Lead Civil Engineer for boundary, topographic, and utility survey services, as well as coordination of 3D laser scanning and modeling services.
- EE-PEDS-13A Task Order 29 Hannah Street Pump Station Surge Analysis Services. Task Order Manager for coordination of surge analysis development and modeling.
- NYCDEP EE-PEDS-13A Task Order 30, Capital Project W-11, Contract CRO-521, Jerome Park Reservoir Architectural Restoration Gatehouse No. 2, 3, 5, 6 & 7, Test Pits – Lead Civil Engineer for coordination of geotechnical services involving test pits, coring, and sampling.
- NYCDEP EE-PEDS-13A Task Order No. 32, Capital Project W-11, Contract CRO-521, Jerome Park Reservoir Architectural Restoration Gatehouse No. 2, 3, 5, 6 & 7, Historical, Preservation, Archeological Consulting (HPAC) – Task Order Manager for coordination of HPAC field observation, technical reporting and alternatives analysis for environmental assessment.
- NYCDEP EE-PEDS-13A Task Order No. 34, Contract 538D City Tunnel No. 3, Stage 2, Shaft 33B, Utility Investigation & Survey Services – Task Order Manager for coordination of utility test-pits and boundary survey.

*experience prior to joining AECOM

Plans & Specifications

NYCDEP Petroleum Bulk Storage/Chemical Bulk Storage Tank Upgrade Project - Bowery Bay Wastewater Treatment Plan, Astoria, NY. Lead Designer for the design of new Sodium Hypochlorite and Ferric Chloride chemical storage and feed systems for the existing wastewater treatment facility. Work also included site drainage improvements and demolition and remediation of existing chemical bulk storage tanks and containment facilities.

NYCDEP Margaretville Sewer Extension, Margaretville/Middletown, NY. Lead Designer for a multi-branch extension of the existing sanitary sewer system. Services included design of sewer extension and laterals, preparation of SEQR documents, preparation of bid documents and coordination/public out-reach to community stakeholders.

NYCDEP Pine Hill Sewer Extension, Pine Hill/Shandaken, NY. Lead Designer for the extension of the existing sanitary sewer. Services included design of sewer extension and laterals, preparation of SEQR documents, preparation of bid documents and coordination/public out-reach to community stakeholders.

NYCDEP Showers Road Sewer Extension, Hunter, NY. Lead Designer for the extension of the existing sanitary sewer. Services included design of sewer extension and laterals, preparation of SEQR documents, preparation of bid documents and coordination/public out-reach to community stakeholders.

NYSOGS/NYSDEC, Elmira/Corning/Canisteo, NY. Responsible for the design of repairs and abandonments of levee drainage conduits at 9 sites located in NYSDEP Region 8. Services included design of conduit repairs/abandonments, preparation of bid documents, preparation of cost estimates and permit support.

OHMSETT Building (R-25 Replacement, Naval Station), Leonardo, NJ. Responsible for the design of site layout, utilities and drainage for new material storage building. Prepared drainage and pump stations capacity calculations, project drawings, and specifications for client submission.

Veteran Affairs Hospital, New York, NY. Responsible for the civil engineering design, site improvement layout and utility design (water, gas, and condensate) for the new generator building.

NYCDOS Fresh Kills Landfill, Sections 1/9 – Temporary Utility Services, Staten Island, NY. Design and construction of temporary electrical power transmission lines and water service to landfill gas flare pad. Services included design of temporary electrical transmission lines and fire water services, coordination with Con Edison representatives, correspondence with DOS representatives and review of shop drawings and submittals.

I-95 Expansion Somerset Street Interceptor Chamber and Outfall Sewer Relocation, Philadelphia, PA. Designer for the relocation of a combined sewer overflow/sewer interceptor facility resulting from the expansion of a portion of Interstate I-95. Services included hydrologic and hydrodynamic modeling of a portion of the City's drainage system, design of new drainage structures, grit chambers and interceptor sewer, preparation of construction documents and design services during construction.

United Water, Hackensack Service Facility - Lead Designer, Hackensack, NJ. Designer for upgrades to the facility's drainage system. Services included hydrologic modeling of local water shed area, hydraulic modeling of the existing and proposed storm water conveyance system, including a new underground storm water detention, preparation of construction documents and design services during construction.

City Center Sawmill River Daylighting and Realignment, City of Yonkers, Westchester County, NY . Lead Designer for the daylighting and re-alignment of approximately 1,500 linear feet of the Sawmill River in the center of Yonkers, NY in association with a public/private partnership for a mixed use redevelopment project to re-vitalize the neighborhood. Goals of this portion of the project included uncovering portions of the Sawmill River that are currently culverted and returning them to a natural state within an urban park setting. Services included hydrologic and hydraulic modeling of the existing Sawmill River watershed, design of the re-alignment of the river and various natural and man-made features bordering the river, as well as all permitting involved with these tasks. Responsibilities also included community out-reach for this project, participating in community and regional information meeting to insure public participation and acceptance of the project.

*experience prior to joining AECOM

Akta Patel, PE

Environmental Compliance

Education

ME/Environmental
Engineering/Stevens Institute
of Technology

BS/Chemical Engineering/
Dharamsinh Desai Institute of
Technology, India

Registrations

Professional Engineer:
NJ, NY, TX

NJDEP UST Closure

Years of Experience

With AECOM: 7

With other firms: 9

Ms. Patel is a professional engineer with over 15 years of experience in all phases of site and remedial investigations, feasibility studies, design, operations, maintenance and monitoring (OMM) and construction of the treatment systems, USTs Closure, SPCC/DPCC Plans, hazardous material management and Project Management. She is experienced in design and implementation of treatment systems including ISCO, SSDS, SVE, pump and treat systems, and excavation projects for treatment of contaminated soil/groundwater/soil vapor, OMM, performance monitoring and optimization for the sites managed under the RCRA, Superfund and ISRA programs. Her project management expertise includes preparation of proposals, technical scope of work, cost estimates, technical reports/work plans, specifications, design and as-built drawings, budget tracking, invoices, subcontractor management and coordination with clients, and regulatory agencies. She is very well versed with SARA, RCRA, CERCLA, NJ and NY state regulations. In addition, she has two years of research and laboratory experience for "Degradation of Explosives (TNT, RDX and HMX) using enzymes in non-aqueous media" including sample preparation, organic extractions, operation of HPLC, and GC/FID.

Experience

Essex County - Environmental Engineering Services, NJ. Project Manager to achieve final closure of three Essex County Sites from the NJDEP associated with the former Underground Storage Tank removal and to provide LSRP services. Prepared deed notices to address soil contamination and conducting groundwater monitoring/sampling for VOCs and MNA parameters to support submission of the RAWP/RAR prepre CEA and Remedial Action Permit for Groundwater.

Confidential Industrial Client, Chromium Remediation, Piscataway, NJ. Project Engineer/Task Manager for a closure/demolition of large-scale chromium impacted multiple properties in northern New Jersey with a direct oversight of the NJDEP and local agencies. As a project engineer lead the asbestos and lead based paint abatement, UST closure during demolition of multiple

*experience prior to joining AECOM

structures, and excavation of approximately 900,000 tons of chromium contaminated soil and debris, backfill with clean fill and restoration. The scope of work also included air monitoring, waste transportation, and off-site disposal. Responsible for preparation of design drawing, specifications, quantity estimates, construction drawings, QA/QC of the field and laboratory data, and preparation of RAR as well subcontractor management and client correspondence.

ISRA Investigation and Remediation, Dow Chemical, Former Essex Facility, Monmouth Junction, NJ. Project Manager/technical lead responsible for ISRA investigation/site closure and to provide LSRP services for the former manufacturing facility impacted with chlorinated VOCs. Submitted the Remedial Investigation Report (RIR) to NJDEP/LSRP in May 2016 along with the CEA. Some of the recent activities include confirmatory round of VI sampling at the off-site property and off-site source investigation including well installation, downhole geophysical logging, groundwater sampling and molar evaluations. Conducted a review of the historic soil data, performed order of magnitude evaluation on the old soil data and obtained unrestricted use RAO for the soils. Conducting groundwater monitoring and sampling for VOCs and MNA parameters to support submission of the RAWP/RAR and Remedial Action Permit for Groundwater.

Remedial Investigation, Design and Construction Oversight, Manufactured Gas Plant Site, FirstEnergy/JCP&L, Dover, NJ. Project Engineer responsible for pre-design investigation activities including soil and groundwater investigations, delineation of extent of soil and groundwater contamination, and DNAPL delineation for the former MGP site. Responsible for preparation of pre-design investigation report, Remedial Action Work Plan, deed notices and CEA and construction oversight, and off-site waste disposal. The remedial action includes containment wall with groundwater treatment vaults with GAC for a treatment of VOCs and SVOCs impacted groundwater, DNAPL recovery wells, stabilization with ISGS reagent, and MNA monitoring.

Environmental Compliance

Lockheed Martin Great Neck Facility, Lake Success, NY. Project Manager/Project Engineer responsible for overall project management and technical activities for the Lockheed Martin Great Neck Site regulated under the RCRA and the Superfund programs. Responsibilities included coordination with the client and their managing contractor, property owner and sub-contractors for the construction of sub-slab depressurization system (SSDS), start-up and OMM, RCRA Corrective Measure Design and Implementation (soil excavation), Area 9 remedy (SVE) Implementation, Annual Soil Vapor Monitoring, OU-1 Influent Pipeline Design, Permitting and Construction, and Golf Course Irrigation System Treatment OMM contracts. Responsibilities included preparing proposals, cost estimates, change order, design and as-built drawings, OMM Manual, System Start-up Plan, Start-up Report, Weekly and Monthly OMM Reports, Quarterly OMM and System optimization Reports, SOPs/ JAHAs, Annual Soil Vapor Monitoring Report, Area 9 Testing and Performance Monitoring Work Plan, Performance Evaluation Report, Soil vapor FS Report, Construction Work Plans such as Soil Erosion and Sediment Control Plan, Sampling Plan, Traffic Plan, Waste Management Plan, HASP, QMP, Communication Plan, and Permit Compliance Plan. The project was a winner of the 2014 AECOM Pyramid Award.

In-situ Chemical Oxidation (ISCO) Remediation, Columbia Cement, Freeport, NY. Project Engineer for a former adhesive manufacturing facility/superfund site contaminated with chlorinated solvents. Conducted Feasibility Study involving bench scale testing of soil and groundwater, pilot testing, and ISCO injections as defined in the ROD prepared by the NYSDEC. The ISCO injections were conducted in multiple rounds using sodium persulfate and hydrogen peroxide into over 100 injection points on-site and at off-site areas along with community air monitoring and performance monitoring. As a result of successful implementation of ISCO at the off-site property, received NFA with MNA monitoring for the off-site property. ISCO injections resulted between 90 % to 99 % reduction in TCA, PCE and TCE concentrations. Prepared FS, RAWP and RAR for on-site and off-site properties.

In-situ Remediation, Former Industrial Facility, Columbia Cement, Baltimore, MD. Responsible for remedial investigation and long-term monitoring program to delineate and remediate chlorinated VOC (DNAPL) plume. The source area characterization included 18 Membrane Interface/Hydraulic Profiling Tool (MiHPT) borings inside and outside the building to identify DNAPL extent, and performed Interim DNAPL recovery using a pump. Conducted focused feasibility study, bench-scale testing of multiple bioremediation and vapor intrusion sampling at

on-site and off-site areas. Conducted pilot test injections using EHC and SRS to support enhanced bioremediation (reductive dechlorination), full-scale injections using SRS and performance monitoring. Responsibilities included preparation of technical memorandums, scopes of work, technical specifications, requests for proposal from subcontractors and vendors, selection and purchasing of reagents, data analysis and reporting.

Site Remediation at Former Pelham MGP Site, Pelham, NY. For the former 20-acre MGP site located in the vicinity of commercial/retail, light industrial and residential properties impacted by presence of coal tar in soil and groundwater, participated as project engineer during remedial construction phase. The remedial activities included, excavation and off-site disposal of 230,000 tons of MGP impacted soil and debris, installation of 3,250 linear ft of permanent low permeability containment barrier to depths of 30 to 60 ft bgs, installation of a groundwater extraction and treatment system, installation of coal tar removal and collection equipment, sub slab venting systems beneath the buildings, and site restoration including placement of 2 ft of clean fill cover, and re-construction of parking lots and landscaping. Responsible for design, permit approval and construction support, preparation of excavation management plan, soil boring, waste classification, monitoring well installation, soil sampling for waste classification, sheet pile installation with vibratory and impact hammer, vibration monitoring, contaminated soil excavation and backfill operations, and slurry wall installation.

Site Assessment and Remedial Investigation of Comingled Petroleum Sites, Plainview, NY. During site assessment and remedial investigation of two former gasoline service stations with petroleum contamination conducted in accordance with Stipulation Agreements under the NYSDEC Petroleum Spills Program, conducted vapor intrusion investigation and additional soil and groundwater investigation where groundwater impacts are comingled and observed at depths greater than 150 ft bgs. Participated in preparation of Pre-Design Investigation Report, Remedial Action Plan and technology identifications and screening, decommissioning of historic SVE system.

In-situ ISCO Remediation, Former Pfizer Manufacturing Facility, Parsippany, NJ. For former pharmaceutical manufacturing facility, conducted feasibility study including ISCO bench-scale treatability study of three ISCO reagents to determine the most effective reagent to oxidize VOC contaminants in soil and groundwater. Based on two rounds of performance monitoring sampling results, prepared RAR with a recommendation for a cost effective follow-up ISCO application.

*experience prior to joining AECOM

Sherri Albrecht, PWS

Permit Coordination & Approvals

Education

MA, Environmental Science,
Montclair State University, 1996
BS, Biology, Minor Chemistry,
Montclair State College, 1986

Registrations

Professional Wetland
Scientist (PWS)

Affiliations

Society of Wetlands Scientists
Society for Ecological
Restoration

Years of Experience

With AECOM: 21
With Other Firms: 2

Ms. Albrecht is a senior ecologist specializing in regulatory compliance, including: permitting under the Clean Water Act, State wetland, floodplain and coastal regulations, NEPA compliance, ecological evaluation and habitat characterization, and wetland delineation/restoration, with focus on New Jersey Land Use Permitting and related agency coordination. She has extensive experience with NJ Coastal Zone (CAFRA/ Waterfront), Flood Hazard Area, Tidal and Freshwater Wetland permitting through the Division of Land Use Regulation, as well as Tidelands instruments through the Bureau of Tidelands. She has coordinated with interested state and federal agencies to ensure that compliance with all applicable regulatory programs was addressed, including, but not limited to: the Endangered Species Act, M-S Fisheries Conservation Act and Section 106 of the National Historic Preservation Act.

Experience

Tillson Lake Dam Removal/Habitat Restoration, Gardiner, NY. Wetland delineation; SEQRA EA, USACE and NYSDEC permitting; restoration ecological design.

Environmental Permitting Specialist, Passaic Valley Sewerage Commission (PVSC), Newark, NJ. Provided review of permitting requirements for final design of floodwall; prepared application/obtained permit for geotechnical borings to support floodwall detailed design. Oversaw wetland delineation and preparation of application for stormwater ditch maintenance.

Lake Lenape Dam – West Embankment Rehabilitation Permitting, Hamilton Township, Atlantic County, NJ. NJDEP Land Use Permitting/Tideland Bureau, NJ Pinelands Commission, Fish and Wildlife resource agencies and related NJ SHPO coordination to obtain requisite permits to implement critical embankment repairs.

Repauno Site Remediation Environmental/Permitting, Gloucester County, NJ. Supervisory/lead wetland delineator and permitting/regulatory compliance specialist for remediation of a former 1,800+ acre industrial site in

Gloucester County, NJ. Delineated numerous wetlands, prepared applications for and obtained multiple NJDEP Land Use permits for both interim and final remediation, including: FWW GP4s, FWW GP6, Coastal GP11s, FHA IP and coordinated with USACE to determine non-jurisdiction. Also coordinated with NJDEP DF&W ENSP for endangered species monitoring and oversaw monitoring to avoid impact to species (Osprey) during remedial construction activities. Prepared documentation to establish Conservation Easements for undeveloped portions of the site as part of Natural Resource Damage settlement with NJDEP.

Chambers Works Site Remediation/Process

Improvements, Salem County, NJ. Permitting/Wetland specialist for an active industrial facility in Salem County, NJ. Delineated numerous wetlands, prepared applications for and obtained multiple NJDEP Land Use permits for site improvements/process upgrades, security upgrades, landfill construction and interim and final remediation, including: FWW GP1s, FWW GP4s, FWW GP6, FWW GP 14, FWW GP21, FWW IP, Coastal GP11s, Coastal GP14, Coastal GP15s, Coastal GP27, FHA IPs and WFD IPs (upland and in-water) and Section 401 Water Quality Certification. Several projects also required NJ Tidelands Instruments and USACE Clean Water Act Section 404 permits, as well as permits from the State of Delaware (DNREC Subaqueous Lands and/or Coastal Consistency). Coordinated with NJDEP DF&W ENSP as needed for endangered species issues and seasonal constraints (Osprey, Shortnose and Atlantic Sturgeon).

NJ American Water, Raritan Millstone Water Treatment Plant Flood Protection, Bridgewater Township, NJ. NJDEP Individual Flood Hazard Area Permit, Freshwater Wetland Permit; Wetland Delineation. Threatened & Endangered Species habitat concerns. (2013 to 2014). Supplementally supported project with additional regulatory review and NJDEP coordination for temporary dewatering lines concerns (2017).

*experience prior to joining AECOM

Permit Coordination & Approvals

Confidential Client – Wharf Demolition in Delaware River, Salem County, NJ and New Castle County

DE. USACE, NJDEP and DNREC Permitting and SHPO Coordination/ Section 106 Compliance (2013 to 2014).

Green Brook Flood Control Project - Various Segments, Somerset County, NJ. NJDEP Bureau of Dam Safety and Flood Control. Permitting.

Newark Bay Bridge Reconstruction /Rt. 440 Improvements, NJTA. Supervised wetland delineation and preparation of NDJEP DLUR applications for FWW LOI and Coastal GP#27 and Individual Upland WFD permits.

NJTA. Newark Bay Bridge, Newark and Bayonne, NJ. Delineated wetlands and provided permitting/regulatory support related to planned rehabilitation and improvements of the Newark Bay Bridge Superstructure. Supervised environmental monitoring, agency coordination (NJDEP DF&W ENSP) and compliance with mandated conditions related to due to presence of a State endangered species (peregrine falcon) nesting on the bridge.

Newark Liberty International Airport (EWR) Infrastructure Improvements. Continental Airlines, Newark NJ. Wetland delineation and permitting.

Delaware River Shoreline Remediation, Confidential Client, Salem County, NJ. Wetland delineation and permitting.

*experience prior to joining AECOM

Jens Muller, RA

Construction Administration & Oversight

Education

Bachelor of Architecture,
Five-Year Professional
Degree, New York Institute
of Technology, School of
Architecture, 2002

Certifications

Certificate Of Masonry,
Building Construction,
Vogelsberger Schule,
Lauterbach, Germany, 1997

Certificate Of Architectural
Drafting, Theodor-Litt-Schule,
Giessen, Germany, 1995

Registrations

Registered Architect: NY

Jens Muller is an experienced architect who provides oversight for the process and procedures for construction administration services. He manages the construction administrative process, provides document quality assessment and control, and reviews design teams' drawings.

Experience

Dormitory Authority of the State of New York (DASNY) Hunter College, New York, NY. CUNY roof replacement.

Dormitory Authority of the State of New York (DASNY) New York City Institute of Technology- Allied Health Building, New York, NY. 1st floor renovation.

Columbia University Manhattanville Campus, Lenfest Center for the Arts, New York, NY*.

NYC School Construction Authority I.S. M837 West End School, New York, NY. Public elementary and intermediate school renovation.

NYC School Construction Authority P.S. 51 The Elias Howe School, New York, NY*. Public elementary and intermediate school.

NYC School Construction Authority Sunset Park High School, Brooklyn, NY*. New public high school for the arts, business, and health and human services.

NYC School Construction Authority, Bronx Studio School for Writers and Artists, Bronx, NY*. New public intermediate and high school.

US Merchant Marine Academy, Nassau County, NY*. Conceptualized an office/school building and hotel for Global Maritime and Transportation School.

Baha Mar, Nasau, Bahamas*. Resort site with hotels, spas, a casino, a golf course, a beachfront, and pools.

East River Science Park, New York, NY*. New biotech research facility.

Hearst Tower Interior Fit-Out, New York, NY*. New 44-story tower.

Hearst Tower, Bronx Mock-Up, Bronx, NY*. 5,000-square-foot mock-up of a typical Hearst Tower floor.

Pricewaterhouse Coopers Interior Fit-Out, New York, NY*. New office space for PwC's New York headquarters.

Memorial Sloan-Kettering New Research Building, New York, NY. New state-of-the-art cancer research facility.

Henry J. Carter Specialty Hospital and Nursing Facility, New York, NY*. Acute-care hospital and nursing facility.

Gouverneur Hospital Expansion and Renovation, Gouverneur, NY*. Renovation of an existing health-care facility.

Amtrak, National Railroad Administration American Disabilities Act Station Program. Update all stations to comply with ADAG.

*experience prior to joining AECOM

Ann Terranova, CFM

Public Outreach

Education

BS, Man/Environment
Relations, Urban Planning
Emphasis, Pennsylvania State
University, 1983

Registrations

AECOM Certified Project
Manager
Certified Floodplain Manager,
Association of State
Floodplain Managers

Affiliations

Association of State
Floodplain Managers
Association of State
Floodplain Managers
Foundation, Executive Board
of Trustee Member, Outreach
and Communications
Committee Chairperson

Years of Experience

With AECOM: 30
With other firms: 4

For more than 35 years, Ann Terranova, Senior Program Manager and Senior Communications Specialist, has created, managed, and implemented strategic training, facilitation, and communications programs to assist clients solve highly controversial and complex technical and environmental problems. Most recently, Ms. Terranova served as the Communications and Outreach Deputy Program Manager for the U.S. Virgin Islands Emergency Home Repairs Program. She led a team of strategic communications professionals in the development of the Program branding, communications materials, media and social media outreach, and elected official testimony to convey important Program information.

Experience

FEMA Risk MAP PTS, FEMA Regions II, III, IV, V, VI, Community Engagement and Risk Communications Lead. Ms. Terranova served as the Community Engagement and Risk Communication Lead for PTS Provider RAMPP on the Federal Emergency Management Agency's Risk Mapping, Assessment, and Planning Program (Risk MAP). This involved a high degree of coordination with communities affected by FEMA's initiative to communicate about the risks of living and working in high flood hazard areas. Ms. Terranova provided community engagement and risk communication support in the Advisory Base Flood Elevation and Preliminary Work Map rollout in New York and New Jersey in the aftermath of Hurricane Sandy. She worked closely with FEMA Regional and Headquarters staff in developing communications materials for New York City and New Jersey Governor-hosted meetings with community officials, Congressional staff, and the media.

HMTAP Floodplain Management Technical Assistance Task Order Manager. Ms. Terranova led a team of strategic communications and NFIP experts in the execution of FEMA's Floodplain Management Branch Technical Assistance Contract under the AECOM HMTAP Contract. She was been responsible for all aspects of Task Order administration as well as directing qualified staff in providing support to the Community Rating System efforts, the development of a FPM Accomplishments document showcasing important program achievements, preparation

of four higher standards one-pagers, and the development of Web content recommendations for enhancing FPM presence on FEMA.gov.

U.S. Army Chemical Weapons Disposal Public Outreach and Involvement Program. Under contract to the Army's Chemical Materials Agency, Ms. Terranova served as the AECOM Program Manager and Outreach Team Leader directing a staff of 20 communications specialists providing information to communities nationwide about the Army's controversial plans for chemical weapons disposal. A significant project challenge was taking highly technical information about the chemical warfare disposal program and distilling it down to language that the average citizen can understand.

TARC National Dam Safety Program Task Order Manager. Ms. Terranova led a team of strategic communications specialists in the development of a multi-dimensional strategy to enhance the visibility of FEMA's National Dam Safety Program. Through the development of the strategy, Ms. Terranova helped to create the overarching theme regarding shared responsibility for dam safety awareness and actions to reduce associated risks when living and working in areas affected by dams. Discrete elements of the program included development and implementation of the 2013 National Dam Safety Awareness Day, the development of the NDSP 2012 Annual Year in Review, establishing the NDSP presence on FEMA.gov and the preparation of multiple updates to important NDSP publications.

Army Corps of Engineers Louisiana Coastal Protection and Restoration Program, Public Scoping Meeting Principle Planner and Facilitator. Ms. Terranova served as the task manager, principal planner and facilitator for a series of public scoping meetings in Louisiana to ensure Army Corps of Engineers' compliance with the National Environmental Policy Act, or NEPA. Four public meetings were held at separate locations, including New Orleans, to obtain input from the public on the Louisiana Coastal Protection and Restoration Program. As part of this project, a programmatic environmental impact statement (PEIS) is being prepared to address potential impacts associated with the planning and implementation of Category 5 coastal

*experience prior to joining AECOM

Public Outreach

protection measures. Ms. Terranova was responsible for all aspects of planning and conducting the scoping meetings, and oversaw the preparation of the scoping report, which documented key issues and concerns to be addressed in the PEIS.

Public Involvement Manager and PRP Spokesperson for Valleycrest Landfill Superfund Project. Ms. Terranova served as the project manager and media spokesperson for a coalition of Fortune-500 companies involved in a highly visible and contentious Superfund landfill cleanup project in Dayton, Ohio. Ms. Terranova developed and implemented the communications strategy, which involved a high degree of interaction with fence-line neighbors and community activists opposing the PRP Group's approach to the cleanup. Ms. Terranova met routinely with representatives from the Ohio and U.S. Environmental Protection Agencies, and coordinated and conducted status briefings with U.S. Congressional and State Representatives to inform them of the project progress. Ms. Terranova supervised the development of communications materials regarding the project, including newsletters, fact sheets, frequently asked questions, media news releases and holding statements.

*experience prior to joining AECOM

AECOM

Daniel McDaid

Estimating

Education

BS, Civil Engineering,
University at Buffalo, 2006

AAS, Engineering and Applied
Science, Jefferson Community
College, 2003

Years of Experience

With AECOM. 13

Mr. McDaid is a civil engineer and cost estimator with 13 years of experience in site investigation, design, cost estimating, scheduling, cost/schedule risk analysis, construction management and system operation and maintenance.

He has performed cost estimating for over \$100M in construction projects using multiple tools and software. He is proficient in using Sage (formerly Timberline) Estimating Extended software; the US Army Corps of Engineering MCACES Second Generation (MII) estimating software; RS Means estimating data base, and other client-specific estimating manuals (e.g., New York City Department of Environment Protection). Mr. McDaid has prepared cost estimates for all phases of work from feasibility study level to construction level. He has supervised colleagues during the preparation of cost estimates, conducted meetings with Clients regarding cost estimates and Contractor/Subcontractor bids, and performed cost and schedule risk analysis.

Experience

New York City Environmental Protection (DEP) Wastewater Resiliency Program, New York, NY.

Development of a unit price book for use on Task Order Contracts for the implementation of resiliency upgrades to New York City's waste water treatment plants and pump stations. The unit price book is a comprehensive database of over 4,000 unit price items. Specific unit prices were developed by establishing equipment purchase pricing, establishing construction crew unit costs; and determining productivity.

New York City DEP, Kensico Reservoir, NY. Prepared a cost estimate for a shoreline revetment project in the Kensico Reservoir in Westchester County, New York. He evaluated and revised the existing cost estimate and procedures for quantity takeoffs and unit price development; analyzed crews and productivity; and participated in meetings with the client to get their input and buy-in on the estimating parameters. The estimate was prepared for work that included sheet pile cofferdam

installation from barges; dewatering; excavation, grading and backfill; rip rap revetment installation; and other associated construction work. The cost estimate was prepared using specialized software (Sage Estimating Extended, formerly Timberline). Prepared evaluation of apparent low bid for use by client in the bid evaluation and award process.

Nassau County Department of Public Works (DPW), Bay Park Sewage Treatment Plant Effluent Pumping Facility Improvements, Bay Park, NY.

Prepared cost estimates for proposed change orders during the construction of improvements to the Bay Park Treatment Plant Effluent Pumping Facility in Bay Park, NY. Work includes the evaluation of Contractor's requests for information (RFIs), performing quantity takeoffs, and preparing cost estimates to evaluate the approximate value of proposed change orders. Work includes a variety of tasks including but not limited to structural demolition, electrical wiring, HVAC work, foundation construction, roofing, and plumbing.

MTA Bus Company, College Point and Mother Clara Hale Bus Depots, New York, NY.

Prepared cost estimates for soil and groundwater remediation at the College Point and Mother Clara Hale Bus Depots. The work involved groundwater treatment process equipment, site work, soil stabilization, temporary structures.

New York City Department of Design and Construction, New York, NY.

Lead cost estimator responsible for preparing specialized cost estimates for petroleum bulk storage and vehicle fueling projects at various locations throughout New York City. He created and maintains a cost estimating database using Sage Estimating Extended cost estimating software. The database is used as the basis for the cost estimates being developed for this project.

US Army Corps of Engineers (USACE), Various Projects, LA, NY, NJ, and OH.

Since 2008, has performed a wide variety of tasks for the preparation of cost estimates for the USACE using specialized MCACES Second Generation (MII) estimating software. In addition, he assisted with the

*experience prior to joining AECOM

Estimating

preparation of cost and schedule risk analysis (CSRA) and Abbreviated Risk Analysis (ARA), and represented the cost estimating team at both CSRA and ARA meetings with the USACE and AECOM project teams.

- **Sebring Mills and London Avenue, Metairie, LA; Algiers Canal, Plaquemines Parrish, LA; Green Brook, NJ; Poplar Brook, NJ South River, NJ; Staten Island, NY.** Prepared and updated specialized cost estimates for the USACE for various hurricane and flood protection projects in Louisiana, New Jersey and Ohio. These estimates were prepared for work that includes levee and floodwall reconstruction, stream restoration, drainage channel construction, bridge relocation, utility modification and relocation, and other related construction work.
- **Little Cuyahoga River, Akron, OH.** Served as lead cost estimator in preparing a cost estimate for the aquatic and riparian habitat restoration of a segment of the Little Cuyahoga River. The estimate was prepared for work that includes stream modifications to restore aquatic habitat, wetland creation, riparian buffer extension, and invasive species removal.
- **Passaic River, NJ; Union Beach, NJ; Blanchard, OH.** Served as lead cost estimator and scheduler, supervising two or more colleagues as they prepared cost estimates and construction schedules for the projects; and conducted meetings with the project design team and clients.
- **Niagara Falls Storage Site, Niagara Falls, NY.** Served as the lead cost estimator in preparing a feasibility study cost estimate for the Niagara Falls Storage Site, a radioactive site in Niagara Falls, NY. Participated in the ARA process.
- **Green Brook, NJ, Passaic River, NJ, Blanchard, OH and Niagara Falls, NY.** Assisted with the CSRA and/or ARA processes for these projects. Tasks included analysis of project details to determine cost and schedule risks and opportunities, and representing the cost estimating team at CSRA and ARA meetings.
- **US Army Garrison, West Point, NY.** Served as lead cost estimator in preparing a cost estimate for the rehabilitation of the North Dock at the US Military Academy in West Point, NY. The estimate was prepared for work included seawall rehabilitation, paving, bank stabilization, and structural dock stabilization.

Dormitory Authority of the State of New York, Smokes Creek, Lackawanna, NY. Prepared a cost estimate for a hydraulic dredging project in Smokes Creek. The work was part of a federal flood control project aimed at restoring the hydraulic capacity of the creek by removal of sediment. Tasks included performing quantity takeoffs, unit price development, estimate preparation and design calculations. The estimate was prepared for work that included dredging, dewatering, excavation and disposal, site access, erosion and sediment control, revetment, and other associated construction work.

Lake Lenape Dam Spillway Stability Remediation, Mays Landing, Hamilton Township, NJ. Prepared a feasibility study cost estimate that evaluated three alternatives for the remediation of a dam and embankment in Lake Lenape in Mays Landing, New Jersey. Tasks included performing quantity takeoffs, unit price development, and estimate preparation. The alternatives were: concrete apron installation and re-facing of the dam; concrete L-wall installation and re-facing of the dam; and construction of a secant pile wall.

New York State Office of General Services, Main Mill Dam, Plattsburgh, NY. Prepared cost estimates for the hydraulic dredging of the Main Mill Dam project in the Saranac River in Plattsburgh, NY. Tasks included quantity takeoffs, unit price development, and estimate preparation. The estimate was prepared for work that includes hydraulic dredging, pumping, impoundment and dewatering of sediments from within the river.

New York State Department of Environmental Conservation (NYSDEC) Ronkonkoma Wallpaper Site, Ronkonkoma, NY. Prepared a cost estimate for the remediation of the Ronkonkoma Wallpaper Site and prepared plans and specifications in conjunction with the cost estimate. Tasks included quantity takeoffs, unit price development, estimate preparation, and Subcontractor bid evaluation. The estimate and design were prepared for work that included remedial excavation, transportation and disposal of contaminated soil, and subsequent restoration of the site.

*experience prior to joining AECOM

Felipe Poletto

Estimating

Education

BS Civil Engineering,
University of Florida

Certifications

ATSSA Certified
SWPPP Certified
AACE
ASCE

Years of Experience

With AECOM: 3

With other firms: 11

Mr. Poletto has experience in construction management, change management, scheduling, project controls, and cost estimating for different types of projects. Currently, he is the manager of the estimating and scheduling group responsible for a multitude of estimates and schedules for the Department of Defense clients such as the Air Force, USACE, and NAVFAC SE. He draws on his previous responsibilities that included overall project administration throughout the construction process, including start-up & closeout, creation of the CPM baseline schedule and schedule updates, contract negotiation with subcontractors and suppliers, reviewing submittals/shopdrawings/RFIs, material procurement, quantity tracking, preparing construction cost estimates, preparing and reviewing change orders, as well as internal project controls to forecast labor, material, and equipment costs. Mr. Poletto is familiar with project deliverable methods such as build-finance, design build, and joint venture. As an estimator and scheduler, he was responsible for the ongoing preparation of cost estimates, including acquisition of subcontractor quotes, quantity surveys, labor and material pricing as well as application and analysis of the appropriate indirect costs for profit, escalation, and area cost factors.

Experience

USPS Pavement Restoration Project, Jersey City, NJ.

Provided Class B cost estimate for full reconstruction of \$60 million dollar pavement restoration job for the Jersey City USPS facility. The estimate included foundations, full reconstruction of asphalt parking lot, pavement marking, reconstruction of concrete truck pads, and storm drainage improvements. Other duties were to compare the cost difference between timber pile, micro pile, and dry soil mixing foundations.

AMTRAK, ADASP Station Improvements. Provided Class C, B, and A cost estimating to upgrade various AMTRAK stations throughout the continent of the United States to meet ADA requirements. The overall program scope was to estimate Interim, 100%, and Issue For Bid drawings for roughly 30 stations over a 1 year period. The estimates ranged from \$500K to \$8 million Dollars and included

drilled shaft installation, helical pile installation, concrete platform construction, ADA concrete ramp construction, ADA parking lot construction, sidewalk construction, ticket window renovation, interior and exterior seating renovation, bathroom renovation, signage installation, pavement marking, and platform canopy installation.

US Army Corps of Engineers, Europe District, Kelley Barracks, Stuttgart, Germany. Led a team of estimators and schedulers for family housing located in Stuttgart, Germany. Costs estimates included the estimating for the structural, shell, interior construction, asbestos abatement, LEED requirements, and site development.

US Army Corps of Engineers, Europe District, Army Family Housing, Vicenza, Italy. Led a team of estimators and schedulers for family housing located in Vicenza, Italy. Costs estimates included the estimating for the structural, shell, interior construction, asbestos abatement, LEED requirements, and site development.

US Army Corps of Engineers, Grant Barracks Renovation, West Point, NY. Lead cost estimator and scheduler for various projects in the U.S. Military Academy including renovation of a 1920s cadet dorm, Grant Barracks. Provided Class C, B, and A. Costs estimates included the estimating for the structural, shell, interior construction, asbestos abatement, LEED requirements, and site development as well as a provided the resource loaded schedule. The estimate performed well against bid results at less than 1% lower than the second bidder.

US Airforce Academy Cadet Chapel Remediation, Colorado Springs, CO. Lead Estimator/Scheduler. The Cadet Chapel was awarded the American Institute of Architects National Twenty-five Year Award in 1996 named a U.S. National Historic Landmark in 2004 for its unique architectural features. Lead estimator that performed construction cost estimates as well as construction schedule from Conceptual to Final Design Development/Construction Drawings. Bid results currently pending.

*experience prior to joining AECOM

Estimating

NIST B1R Wing 4, Wing 5, and Partial Spine. Lead Estimator. Led the team in providing a Class C cost estimate with complete schematic estimate including site improvements, interior demolition and renovation, and exterior renovations.

Naval Air Station, B101 FRC-SE Administrative Offices Renovation, Jacksonville, FL. Provided Class C cost estimate to complete renovation of existing administration building including site work, temporary office space and its infrastructure, complete demolition and renovation of interior spaces, and addition of a new vestibule.

Naval Air Station, Overrun Soil Stabilization, Jacksonville, FL. Naval Facilities Engineering Command Southeast, Lead Estimator (2017); Provided Class B cost estimating for all material and labor to stabilize an roughly 770-feet of the overrun area by way of soil cement that can sustain heavy loads.

Naval Air Station Repairs to FRC Hose and Tube Shop, Jacksonville, FL. Estimator. Led the team in providing a Class C cost estimate for the architectural and structural renovations, as well as the project schedule.

Kings Bay Inner Channel Caisson Repair, Kings Bay, GA. US Naval Facilities Engineering Command Southeast, Team Overview (2018); Oversaw cost estimating and scheduling for the structural demolition and construction on the \$8 Million dollar dry-dock concrete caisson. The estimate included demolition and necessary repairs to keep this caisson in certification.

Klamath River Renewal Corporation, Dam Removal Project, Southern Oregon and Northern California. Lead Estimator. Led the team in providing Class C initial cost estimating and scheduling for the removal of 4 dams along the Klamath River. The estimate and schedule include the removal of 1 earth dam and 3 concrete dams. The estimate activities include mass soil excavation and hauling, mass concrete demolition, structural steel demolition, penstock removal, overhead gantry crane removal, and hydroelectric equipment removal. Dozens of items were taken into account for risk assessment.

Naval Air Station, Replace RW 14-32 Airfield Lighting, Jacksonville, FL. Provided Class B cost estimating for restoring/modernizing the existing RW 14-32 Airfield Lighting System to comply with NAVFAIR Standards and Energy Savings initiatives. The project includes the replacement of runway and taxiway lighting systems, airfield guidance signs, approach lighting systems, and the associated electrical power distribution infrastructure as needed.

US Army Corps of Engineers, Fort Gordon Access Point, Savannah, GA. Assisted with the Class A cost estimating for the Fort Gordon Access Control Georgia. The estimate included site preparation, Storm drainage installation, utility water pipe installation, site excavation, site backfill, asphalt road construction, concrete pavement construction, fence installation, concrete island construction, and site signage improvements.

US Naval Facilities Engineering Command Southeast, Kings Bay Inner Channel Caisson Repair, Kings Bay, GA. Provided cost estimating for the structural demolition and construction on the \$8 million dollar dry-dock concrete caisson. The estimate included demolition and necessary repairs to keep this caisson in certification.

Palm Beach International Airport Master Plans, Palm Beach, FL. Estimator. Provided Class C estimates for the Master Plan for the years of 2016 thru beyond 2035 – reconfiguring runways, building facilities and terminal renovation. Provided the team with construction cost estimate of Airport (Airside) Development, Commercial Passenger/Terminal Development, General Aviation Development, and Air Cargo Development.

US Army Corps of Engineers, Qatar. Estimator. Provided a Class C construction cost estimate for various buildings for all Uniformat Classification in MII Estimating Software.

Cathy Bryant, LSRP

Senior Site Remediation Professional

Education

Bachelor of Architecture
Architecture, Adamson
University, Manila, Philippines,
1988

Years of Experience

With AECOM: 17
With Other Firms: 10

Ms. Bryant has over 20 years of experience in all phases of the NJDEP Remedial Investigations, Remedial Actions, and UST Subsurface Evaluations. She is a NJ Licensed Site Remediation Professional and an AECOM Certified Project Manager. She is also experienced in engineering and institutional controls for remedial actions including Deed Notices and CEAs, Hazardous, Toxic and Radioactive Waste (HTRW) studies and assessments, and Due Diligence Studies and Assessments.

Experience

Power Plant NJ ISRA Remediation, NRG, LLC, Sayreville and South Amboy, NJ. Date: 2009-currently; Value: \$5,500,000. Ms. Bryant managed remedial investigation tasks in accordance with N.J.A.C. 7:26E under NJDEP ISRA for the multi-acre power generating stations at the Sayreville, Werner, Gilbert and Glen Gardner Sites. Each ISRA Site has over 30 contaminated AOCs including historic fill. Ms. Bryant is currently the Project Manager and LSRP for Sayreville and Werner Generating Stations. Contaminants of concern include metals and PAHs in soil and metals in groundwater. Several Compliance Attainment procedures are being used to comply with NJDEP Soil Remediation Standards. Some LSRP submittals included annual Remediation Funding Source, Remediation Priority Scoring, Public Notification, the May 7, 2014 RI Complete Timeframe Extension and a Final RI Report.

Spill Response, HD Supply Construction Supply, North Bergen, NJ. Date: 2014-currently; Value: \$25,000. Ms. Bryant managed remediation tasks in accordance with N.J.A.C. 7:1E and N.J.A.C. 7:26E for approximately 18 gallons of hydraulic fluid that was released to the asphalt at the Site then to soil at the adjacent active rail property. Ms. Bryant is currently the LSRP for the site. Soil excavation, off-site disposal and post remediation soil sampling adjacent to an active rail property was conducted in January 2017. An unrestricted use Response Action Outcome (RAO) will be issued for the spill case. LSRP tasks have included NJDEP Discharge Notification, Spill Response including asphalt washing, Public Notification, Initial Receptor Evaluation, Remedial Action Work Plan and a Remedial Investigation Report. A Response Action Outcome will be submitted in May 2017.

Former Simmons Company Facility, SSB Manufacturing Company, Linden, NJ.

Date: 2009-currently; Value: \$750,000. Ms. Bryant managed remedial investigation (RI) and long term monitoring tasks in accordance with N.J.A.C. 7:26E under NJDEP ISRA for chlorinated contaminants in the overburden and bedrock groundwater aquifers. Recent RI tasks included offsite groundwater delineation, historical fill evaluation and an Order of Magnitude analysis for over 18 AOCs which previously received NFA from the NJDEP. Recent submittals included annual Remediation Funding Source, May 7, 2014 RI Complete Timeframe Extension, Remedial Investigation Report – Unrestricted Use Response Action Outcome (RAO) Support Documentation for Soil AOCs and May 2016 Groundwater Remedial Investigation Report.

Non-asbestos Soil and Groundwater Remediation, W.R. Grace & Co., Hamilton Township, NJ.

Date: 2007-currently; Value: \$1,000,000. Designed and prepared soil and groundwater remedial action work plans for NJDEP approval. Soil remedial actions included an engineering control (cap) and institutional control (Deed Notice) for soil. Groundwater remedial action included natural attenuation with a CEA. A final supplemental RI was submitted by the May 7, 2014 RI deadline and included a CEA for historic fill and a RAWP was submitted in May 2016. Ms. Bryant is currently the Project Manager and LSRP.

Classification Exception Area (CEA), The DOW Chemical Company, Monmouth Junction and Paulsboro, NJ.

Date: 2000-2003 and 2016-currently; Value: \$250,000 In 2000-2003. Prepared two CEAs for a former chemical facility. The Monmouth Junction site CEA included chlorinated solvent contamination from a former drum storage area. The Paulsboro site CEA included inorganic constituents from a landfill used for disposal of on-site generated waste consisting primarily of gypsum. Ms. Bryant is currently the project manager and LSRP for the Paulsboro CEA and Deed Notice. Recently tasks included soil and groundwater Biennial Reporting a Groundwater Remedial Action Permit Application.

*experience prior to joining AECOM

Senior Site Remediation Professional

Dollar Rent A Car at Newark International Airport, Hertz Corporation, Newark, N.J. Date: 2015-2016; Value: \$20,000. Regional Project Manager for Remedial Investigation activities that addressed the release associated with an underground storage tank pipeline replacement project. Tasks included designing and implementing a SOW to close-out the site with an RAO. Soil samples were collected to delineate impact to groundwater hot spots to below standards. An unrestricted RAO was issued by the LSRP after using attainment compliance techniques to meet impact to groundwater standards. Deliverables included Newark Airport Tenant Alteration Application (TAA) addendum, RI Work Plan including a QAPP, RIR Report, Receptor Evaluation Report, RAO and a TAA closure.

Soil Evaluation of Proposed Losen Slote Mitigation Site Parcels, Federal Aviation Administration, Little Ferry, NJ. Date: 2014-2016. Value: \$55,000 Designed and prepared a sampling plan to conduct a soil investigation and evaluation associated with the development of the Losen Slote Wetland Mitigation Proposal. The soil investigation and evaluation characterized material used to construct existing mounded soil and assessed the suitability for subsequent off-Site use; investigated the Site for potential contamination; and evaluated the suitability of soils at the proposed final grades for planting substrate. A Soil Investigation report was prepared that included results, conclusions and recommendations.

Regional Compliance Restoration Program PA/SI at Multiple Sites, National Guard Bureau, Atlantic City, NJ. Date: 2014-2016; Value: \$95,000. Regional Project Manager for PA/SI activities at several Atlantic City Air National Guard sites. Tasks included attending installation specific kickoff meetings and regulatory update meetings, and reviewing a subcontractor PA/SI Work Plan and PA/SI Report.

Hazardous Materials Assessment for a Linear Construction Project, NJTA, Bayonne, NJ. Date: 2012 Value: \$15,000 Prepared a Hazardous Materials Assessment for a Linear Construction Project in Bayonne, NJ in accordance with NJDEP requirements. Responsibilities entailed compilation, review, and interpretation of regulatory database files, aerial photographs, fire insurance maps, and municipal office information. Historic fill was identified as the only Area of Concern (AOC). In order to protect workers, as well as to minimize any environmental hazards associated with spoils removal, a site investigation was conducted along the proposed linear construction to determine if the historic fill was contaminated.

Comprehensive Restoration Plan (CRP) for the Hudson Raritan Estuary (HRE) Ecosystem Restoration Study. Date: 2011-2013 Value: \$30,000 Prepared and compiled a list of potential HTRW sites within eight Study Area Reports (SARs) in New Jersey and New York City using public online websites (e.g., EPA, NJDEP, NYCDEP, NYSDEC, etc.) to provide a "one-stop" source of information on contaminated locations throughout the eight geographical areas of the HRE. Thousands of potential HTRW sites were identified for each SRS. Each potential HTRW site was georeferenced and a brief description of each site was prepared and incorporated into a geographic information system (GIS) database.

Prepared Preliminary Assessment Reports (PAR), Courier Corporation and Fujitec America, North Bergen and Wood-Ridge, NJ. Date: 2010; Value: \$20,000. Prepared preliminary assessment reports (PAR) in accordance with the NJDEP ISRA requirements. Responsibilities entailed compilation, review, and interpretation of regulatory database files, aerial photographs, fire insurance maps, and municipal office information. Several areas of concern (AOCs) were identified at these facilities which were included in a Response Action Outcome (RAO) issued by a Licensed Site Remediation Professional (LSRP).

Summit Main Post Office, United States Postal Service, Summit, NJ. Date: 2010-2016 Value: \$20,000 Project Manager for the design and implementation of a groundwater monitoring program for a former underground storage tank. An annual Remedial Action Progress Report was prepared and included findings, recommendations, and conclusions and was submitted to the NJDEP. The Site received No Further Action (NFA) from the NJDEP with a CEA in place and Natural Attenuation. Ms. Bryant was retained as the LSRP to address the Biennial Certifications for the CEA. A Groundwater Remedial Action Permit (RAP) Application was submitted and the NJDEP issued a RAP for the site.

Reich Farm Superfund Project, Dow Chemical, Toms River, NJ. Date: 2008-2009; Value: \$2,000,000 Ms. Bryant managed tasks for a Superfund site (Reich Farm) located in Toms River, NJ, which was under the EPA's National Priority List (NPL). This \$2 million project involved the delineation of the extent of soil contamination in a former drum disposal area, delineation of the extent of groundwater contamination, and determining groundwater impact on a public water supply well field. A second phase of this project was the operation and monitoring of the groundwater remediation system. This project involved close coordination with Union Carbide and Dow personnel, Federal and State regulators, and the general public.

*experience prior to joining AECOM

Jesse Walker, MA

Senior Archaeologist

Education

MA, Anthropology, Temple University, 2003

BA, Anthropology, State University of New York at New Paltz, 1997

Training

OSHA 29 CFR 1910.120 HAZWOPER 40-Hour Certification Course

OSHA 10-Hour Construction Safety and Health

Supervisor Training In Accountability and

Recognition Techniques

Training, Safety Services 2018

Section 106 Essentials Course, Advisory Council on Historic Preservation (Philadelphia, PA), 2016

NJHPO: CRM Essentials (Trenton, NJ), 2007

Years of Experience

With AECOM: 4

With other firms: 16

Mr. Walker has over 15 years of experience in archaeological investigations and Section 106 of the National Historic Preservation Act in the Middle Atlantic and Northeastern United States. Jesse possesses a strong background in archaeological field and laboratory methods along with extensive training and experience in lithic, shell, and ceramic analysis and geomorphology. His primary specialization is the study of Native American groups through archaeology. He has directed field surveys, analyzed artifacts, and written technical reports for projects in Delaware, Vermont, New York, New Jersey, Maryland, and Pennsylvania. His current responsibilities include project management, coordinating fieldwork, managing laboratory analysis, and technical report preparation. Mr. Walker is the author or co-author of more than 100 technical reports, two peer-reviewed publications and has presented at various archaeological conferences. Mr. Walker serves on the executive board of the Archaeological Society of New Jersey.

Experience

Rebuild By Design Meadowlands Project, New Jersey, Division of Property Management & Construction, Bergen County, NJ. Date: 2016-2018. Role: Principal Investigator. Mr. Walker prepared Phase IA archaeological survey report for a federally funded flood control project in several municipalities. Screenings for project alternatives were conducted. The Phase IA archaeological identified most of the project area as having a low archaeological sensitivity. Limited Phase IB archaeological testing was recommended. The New Jersey Historic Preservation Office concurred with the recommendations. Mr. Walker prepared the cultural resources portion of the draft Environmental Impact Statement. Consultation with Native American Tribes, historic organizations and other interested parties was conducted.

Smart Pig and Facility Modifications, 14-Inch PGW Plant "A" Lateral Launcher/Receiver Facility Installation, Williams/ Transcontinental Gas Pipe Line Company, LLC, Gloucester City, Camden County, NJ. Date: 2017. Role: Principal Investigator. A Phase IB workplan and unanticipated discovery plan was prepared and approved by the New Jersey Historic Preservation Office. The project area was located in an existing paved roadway

and extensive coordination was conducted to complete the Phase IB archaeological survey. No archaeological resources were identified.

Marine Academy of Science and Technology (MAST), MAST Fiber Optic Cable Installation, Altice Business, Monmouth County, NJ. Date: 2018. Role: Principal Investigator/Project Manager. Archaeological monitoring was completed for the installation of fiber optic cable at the Marine Academy of Science and Technology (MAST) located at Sandy Hook Unit of National Gateway Recreation Area. An Archaeological Resources Protection Act (ARPA) permit was obtained from the National Park Service to complete archaeological monitoring. No significant archaeological resources were identified. The artifacts were curated to comply with Interior Collections Management System and submitted to the National Park Service.

Phase I Archaeological Survey, Lippincott Hill, Naval Weapons Station Earle, Colts Neck, NJ. Date: 2016-2017. Role: Principal Investigator/Project Manager. Directed the survey and prepared the report. Prepared work plan that was approved by the New Jersey Historic Preservation Office. The project delineated the horizontal boundaries of a prehistoric site within an approximately 100-acre portion of the military installation.

Phase I Archaeological Survey, New York Bay Expansion Project, Williams/ Transcontinental Gas Pipe Line Company, LLC, NJ. Date: 2016-2017. Role: Principal Investigator/Project Manager. Directed the survey and prepared the report. Prepared work plan that was approved by the New Jersey Historic Preservation Office. The project delineated the horizontal boundaries of a prehistoric site within an approximately 100-acre portion of the military installation.

Delaware & Raritan Canal Dredging, Kingston Station (1862+00) and Amwell Road (2418+00), New Jersey Water Supply Authority, Somerset County, NJ. Date: 2014 to Present. Role: Principal investigator/Project Manager. Providing cultural resources services since 2014 for the dredging project along a 10-mile section of the Delaware & Raritan Canal. Phase IB archaeological investigations were completed which identified two historic sites within the Delaware & Raritan Canal Historic District.

*experience prior to joining AECOM

Senior Archaeologist

An Application for Project Authorization to comply with New Jersey Register of Historic Places Act was prepared and approved by the New Jersey Historic Preservation Office. Archaeological monitoring plans, avoidance and protection plans, and other servers were completed for the project. Archaeological monitoring is on-going in the canal and construction areas during dredging operations. The archaeological monitoring identified industrial deposits associated with the Excelsior Terra-Cotta Works/Atlantic Terra-Cotta Company site (28So122). AECOM is consulting frequently with the New Jersey Historic Preservation Office and archaeological reviewer at Municipal Finance and Construction Element of the New Jersey Department of Environmental Protection.

Phase I/II Archaeological Survey, Southern Reliability Link Project, New Jersey Natural Gas, Burlington, Monmouth, and Ocean Counties, NJ. Date: 2014-2017. Role: Principal Investigator. Directed and wrote the reports for the archaeological survey for the 27-mile long natural gas transmission pipeline project. Several historic archaeological sites were identified. Consultation with federally recognized Native Americans tribes was conducted as part of the Environmental Assessment. Archaeological avoidance/protection plans and archaeological monitoring plans were developed. Geoarchaeological investigations were conducted on sand dune landforms which involved deep archaeological testing. The survey was completed to comply with New Jersey Department of Environmental Protection-Historic Preservation Office regulations, Section 106 of the NHPA, and the New Jersey Pinelands Commission Regulations.

Cultural Resources Investigation, Route 45 Bridge Over Woodbury Creek, Woodbury City, New Jersey Department of Transportation, Gloucester County, NJ. Date: 2017 to Present Role: Principal Investigator. Phase I archaeological survey conducted for bridge replacement project. Project revisions are on-going.

Phase I/II Archaeological Investigation, Cedar Substation, Atlantic City Electric, Stafford Township, Ocean County, NJ. Date: 2014. Role: Co-Principal Investigator. Led and authored a report for an Atlantic City Electric substation expansion project. Prehistoric and historic archaeological resources were identified. The archaeological resources were determined to not be eligible for listing on the National Register of Historic Places.

Archaeological Assessment, PSEG Fossil LLC Linden Generating Station, PSEG, Union County, NJ. Date: 2014. Role: Principal Investigator. Led and authored an archaeological assessment conducted for the Demolition of Retired Facilities at Linden Generation Station. A consultation letter was prepared for the proposed project which determined there was a low potential for significant archaeological resources and recommended no further archaeological survey. The New Jersey State Historic Preservation Office (NJ HPO) concurred with the recommendations.

Phase I/II/III Deepwater Reterminations Project, Atlantic City Electric, Salem County, NJ. Date: 2015 - 2018. Role: Principal Investigator. Directed the archaeological surveys and wrote for the transmission line project. An historic period site (28Sa216) and Native American site (28Sa117) were investigated during the Phase I archaeological survey. The Phase II/III archaeological survey was completed at 28Sa117. The Phase III data recovery documented new significant information about Native American culture in the Salem River watershed.

Deepwater to Salem Transmission Line, Atlantic City Electric, Salem County, NJ. Date: 2015. Role: Co-Principal Investigator. Served as a project lead for a Phase I Archaeological Survey for a 69kV transmission line project. One prehistoric site was identified.

*experience prior to joining AECOM

John Duggan, Jr.

Principal in Charge (USAEMI)

Education

Bucks County Community
College – Business
Administration

Certifications

USEPA AHERA/ASHARA,
Building Inspector
USEPA AHERA/ASHARA,
Project Designer
USEPA AHERA/ASHARA,
Management Planner

NJ Department of Community
Affairs, Asbestos Safety
Technician
OSHA HAZWOPER 40-Hour
Certification
NJ DEP UST Closure,
Subsurface Evaluation

UST Inspection – PA
Certificate of Competence
Highland Tank & Manufacturing
Co. Xerxes Fiberglass Tanks
Ameron Fiberglass
Containment Piping

Mr. Duggan's experience as Regional Manager for USAEMI's New Jersey operations has encompassed a wide range of environmental assessments/remedial operations from school districts to urban Brownfield's redevelopment issues, historic residential properties and high-rise office structures. His experience also includes Federal remedial design-build operations for such clients as the Department of Defense, the General Service Administration and the Department of the Interior. In addition, he has assisted State Agencies, Local Government Offices and Educational facilities with environmental issues such as bird guano, indoor air quality, mold and fungi studies, and asbestos/lead assessment, soil and groundwater contamination /remediation and property transfer historical studies

Mr. Duggan manages USAEMI's Federal Contracts throughout the Mid-Atlantic Region. He is the lead environmental professional for our Navy IDIQ Industrial Hygiene/3rd Party abatement monitoring contract that provided abatement oversight including Abatement Work Plan and Submittal Review, Abatement Action Designs, and Abatement Monitoring for the Navy at the Naval Station Newport in Rhode Island (3 Projects), Naval Submarine Base in New London Connecticut (5 Projects), and Naval Operations Support Centers and the Merchant Marine Academy in Long Island/Rochester/Buffalo, New York (7 Projects). He is also the lead environmental professional for a Navy IDIQ A/E Whole Center Repair Mid-Atlantic contract that has included Naval Operations Support Centers, New Construction and Facility Retrofits in Roanoke Virginia, Charlotte and Greensboro South Carolina, Erie Pennsylvania, Lakehurst New Jersey, Naval Underwater Warfare Center and the Naval Warfare College in Newport, Rhode Island

Responsibilities

- Manage, evaluate and implement necessary policies and procedures to monitor contract performances to ensure that USAEMI standards of excellence are maintained and customer requirements are met on time and within budget
- Primary point of contact with Contracting Officers and State Regulators
- Perform financial management functions to include forecasting, budgeting, and cash flow analyses.
- Manage new business development activities.
- Ensure subcontractors/specialty consultants qualifications and references meet project and USAEMI criteria.
- Train and instruct employees in corporate and OSHA safety procedures
- Conduct project site visits ensuring contract specifications are complied with and quality control plan is implemented properly
- Coordinates project supervisors, subcontractors and provide overall supervision and direction
- Coordinates site preparation, including material acquisition delivery, construction of containment and decontamination facilities
- Provides environmental consulting on asbestos, IAQ, site remediation/site investigation and lead issues to ensure compliance with EPA -OSHA
- Ensures compliance with regulations and safety guidelines including monitoring all projects to ensure safety guidelines are being implements
- Attends site visits, pre-bid, project and post-bid meetings
- Estimates projects costs and develop pricing in conjunction with the Program Manager
- Reviews contract drawings and specifications
- Federal Projects Manager - Mid-Atlantic Region

William Weisgarber, Jr.

Program Manager (USAEMI)

Education

Ramapo College – Bachelor of Science

Certifications

USEPA AHERA/ASHARA, Building Inspector

USEPA AHERA/ASHARA, Project Designer

NIOSH 582 Equivalency Trained

AIHA, Asbestos Analyst Registry, No. 8118

NJ Department of Health Lead Inspector/Risk Assessor

NJ Department of Community Affairs, Asbestos Safety Technician

Niton XRF Analyzer Operator Training

CT, Asbestos Building Inspector

RI, Asbestos Building Inspector
Philadelphia, Asbestos Investigator

Over the course of Mr. Weisgarber's 12-years as Program Manager/Executive for USAEMI's New Jersey operations he has developed and overseen the implementation and action of numerous asbestos, lead, and indoor air quality projects. As Program Manager/Executive he has designed and monitored asbestos abatement projects for clients such as The College of New Jersey, Ramapo College, New Jersey Department of Environmental Protection, Department of the Navy, and New Jersey Division of Property Management and Construction. Additionally, Mr. Weisgarber, has assisted in the development of an asbestos program for Wells Fargo, and has conducted site investigations for hundreds of commercial, industrial and private clients with issues regarding asbestos, lead, and indoor air quality.

Mr. Weisgarber has been involved in all aspects of asbestos and lead management. For clients throughout the State of New Jersey, he has conducted abatement project oversight, and emergency environmental response. It has also been his responsibility to ensure that USAEMI employees are trained and cooperate with OSHA standards, and that all regulatory compliance is met during abatement projects. Furthermore, his experience within the industry includes attending all USAEMI pre-bid and post bid meetings, as well as the ability to accurately estimate project costs and develop construction cost estimates. Throughout his career he has professionally communicated with private and public government clients to ensure efficient project progress.

Responsibilities

- Manage, evaluate and implement necessary policies and procedures to monitor contract performances to ensure that USAEMI standards of excellence are maintained, and customer requirements are met on time and within budget.
- Primary contact with Contracting Officer
- Ensure subcontractors/specialty consultants qualifications and references meet project and USAEMI criteria.
- Train and instruct employees in corporate and OSHA safety procedures
- Conduct project site visits ensuring contract specifications are complied with and quality control plan is implemented properly
- Coordinates project supervisors, subcontractors and provide overall supervision and direction
- Provides environmental consulting on asbestos and lead issues to ensure compliance with EPA -OSHA
- Ensures compliance with regulations and safety guidelines including checking all projects to ensure safety guidelines are being implements
- Attends site visits, pre-bid and post-bid meetings
- Estimates projects costs and develop construction cost estimates
- Develop contract drawings and specifications
- Primary point of contact for many clients including The College of New Jersey, New Jersey Department of Environmental Protection, and Ramapo College
- Finalizes reports for clients
- Audit and site inspection for code compliance with NJ school districts
- Creates abatement specifications, performs abatement project oversight, air monitoring, and emergency response hazard stabilization.
- Develops site specific Operations and Maintenance Plans and implements quality control processes on large scale abatement projects.
- Conducts lead-based paint inspections for day care facilities throughout the State of New Jersey for compliance with regulations and licensing of the facility.
- Performs or assists in indoor air quality investigations.
- Provides oversight, testing, and quality assurance on IAQ abatement projects

Mark Jenkins

Project/Work Order Manager (USAEMI)

Education

Rutgers University – Bachelor of Arts in Statistics

Certifications

USEPA, AHERA/ASHARA, Building Inspector

USEPA, AHERA/ASHARA, Management Planner

USEPA, AHERA/ASHARA, Project Designer

Certified NIOSH 582 Trained

AIHA Asbestos Analyst Registry, No. 5384

NJ Department of Community Affairs, Asbestos Safety Technician

NJ Department of Health Lead Inspector/Risk Assessor

USEPA, Lead Project Designer

PA, Asbestos Project Designer

PA, Asbestos Building Inspector

PA, Lead Inspector/Risk Assessor

PA, Lead Abatement Supervisor

Mr. Jenkins has 30-years of experience as an Industrial Hygienist and Project Manager for various environmental projects. He has performed air monitoring and on-site analysis for numerous asbestos abatement projects to insure the health and safety of the building occupants. His experience includes quarterly well sampling monitoring on various superfund sites, conducting indoor air quality surveys to determine quality of air in office environments, conducting Phase I Environmental Assessments of various properties for the purpose of acquisitions, and performing soil testing for clients such as the Atlantic City Casino Redevelopment Authority and Philadelphia International Airport. Furthermore, he has compiled numerous project reports utilizing various computer programs, including CAD. His comprehensive experience with design and monitoring asbestos abatement projects has allowed him to work with clients such as Verizon and MCI Communications in New York, New Jersey and Pennsylvania.

Mr. Jenkins has been involved in all aspects of environmental project management. He has managed asbestos survey and abatement projects for the City of Philadelphia and School District of Philadelphia. He has coordinated and managed lead risk assessments and inspections projects for New Jersey Transit, Wilmington, Philadelphia and Harrisburg Housing Authorities. As a manager, he must approve time sheets, submit payroll, prepare detailed asbestos and lead abatement project design specifications, assign environmental technicians to specific projects on a daily basis, prepare project reports, and deliver disseminate pertinent information to clients. Throughout his career within the industry, he has interacted with private and public government clients to ensure efficient project progress.

Responsibilities

- Train and instruct employees in corporate and OSHA safety procedures
- Coordinates project supervisors, subcontractors and provide overall supervision and direction
- Ensure subcontractors/specialty consultants qualifications and references meet project and USAEMI criteria.
- Conduct project site visits ensuring contract specifications are complied with and quality control plan is implemented properly
- Manage, evaluate and implement necessary policies and procedures to monitor contract performances to ensure that USAEMI standards of excellence are maintained, and customer requirements are met on time and within budget.
- Provides environmental consulting on asbestos and lead issues to ensure compliance with EPA - OSHA
- Ensures compliance with regulations and safety guidelines including checking all projects to ensure safety guidelines are being implements
- Attends site visits, pre-bid and post-bid meetings
- Estimates projects costs and develop construction cost estimates
- Develop contract drawings and specifications
- Provides reporting quality control
- Creates abatement specifications, performs abatement project oversight, air monitoring, and emergency response hazard stabilization.
- Administers lead-based paint inspections for the Philadelphia Housing Authority
- Performs or assists in indoor air quality investigations
- Provides oversight, testing, and quality assurance on IAQ abatement projects

Richard Reynolds

Asbestos/Lead Paint Task Leader (USAEMI)

Education

The Pennsylvania State
University – Bachelor of the Arts

Certifications

USEPA, AHERA/ASHARA,
Building Inspector

USEPA, AHERA/ASHARA,
Management Planner
NIOSH 582 Equivalency
Trained

AIHA Asbestos Analyst
Registry, No. 9488

NJ Department of Health Lead
Inspector/Risk Assessor

NJ Department of Community
Affairs, Asbestos Safety
Technician

Niton XRF Analyzer Operator
Training

PA, Asbestos Building
Inspector

VA, Asbestos Building
Inspector

DE, Lead Inspector/Risk
Assessor

Mr. Reynolds has engaged in oversight and field coordination of projects pertaining to Asbestos, Lead, Mold, and IAQ. Mr. Reynolds has dealt with clientele including public, private, and educational facilities, in New Jersey, Virginia, Rhode Island, Washington D.C., and Pennsylvania. His responsibilities have included AHERA compliance, asbestos project monitoring and oversight, mold investigations, IAQ Studies, and extensive work developing asbestos assessments and remediation designs for numerous public and private entities. Mr. Reynolds has worked in over 30 buildings on the campuses of The College of New Jersey and Ramapo College. In each of those buildings he has assisted in the creation of a management plan and construction/abatement designs, in conjunction with renovation activities.

Mr. Reynolds has coordinated field surveys, including extensive oversight of activities and managed field personnel monitoring abatement activities. He was part of a multi-firm team that investigated the condition of 17 state-owned buildings throughout the State of New Jersey. As part of the hazardous materials discipline, Mr. Reynolds gained a wealth of knowledge in related disciplines (HVAC, Plumbing, Structural Architecture, Elevator Maintenance, etc.) as they relate to environmental concerns. Mr. Reynolds also continued building his expertise in identifying hazardous materials and conditions on the interior and exterior of the buildings as well as projecting a suggested course of action in a 5-year, 10-year, and 20-year span, for the improved efficiency, productivity, and safety of the building and its occupants. Mr. Reynolds coordinated and communicated regularly to fellow team members as well as a plethora of State and site representatives to address access issues, site trepidations, drawing and layout discrepancies, and future project planning.

Responsibilities

- AHERA Program Coordinator: Manages and directs all 6-Month Periodic Surveillance and 3-Year Re-inspections
- Develops and implements Operation and Maintenance Plans with Clients and provides Client based AHERA Management Plan Training and follow-up assistance
- Principal hazardous materials assessment investigator for asbestos, lead-paint, universal waste, PCBs and microbial impacts.
- Intimate knowledge of construction and building systems applied to assessment activities
- Detailed sample extraction and laboratory data interpretation
- Conducts audits of Client's existing environmental documentation to determine areas of deficiencies and potential cost savings measures.
- Ensures compliance with regulations and safety guidelines including checking all projects to ensure safety guidelines are being implements
- Attends site visits, pre-bid and post-bid meetings
- Estimates projects costs and develop construction cost estimates
- Performs lead risk assessments for child elevated lead blood levels
- Supervises and manages field personnel throughout remedial actions
- Provides environmental consulting on asbestos, indoor air quality, site remediation/site investigation and lead-paint issues to ensure Client compliance with regulations

Wayne Martin

Asbestos/Lead Paint Support (USAEMI)

Education

Vance-Granville Community College – Associates Degree in Science

Computer Processing Institute – Technical Degree

Camden County College, Blackwood, New Jersey

– Certified Environmental Technician

Certifications

USEPA AHERA/ASHARA, Building Inspector

USEPA, Asbestos Project Designer

Certified USEPA, NIOSH 582 Equivalency Trained

NIOSH 582 Equivalency Trained

Asbestos Analyst Registry, No. 9431

NJ Department of Community Affairs, Asbestos Safety Technician

Advanced Legionella Training Certificate

Mold, IAQ, Industrial Hygiene Sampling

OSHA 30 Certification

Mr. Martin has been involved in all aspects of asbestos industry. He has participated in and documented multiple site investigations at locations both large and small. Mr. Martin also drafts designs for asbestos abatement and conducts abatement project monitoring. During Mr. Martin's six (6) years of experience in environmental consulting/management industry, as an industrial hygiene technician, he has assisted on hundreds of hazardous material assessments – following many projects through close-out from small residential upgrades to renovation activities at the U.S. Naval Observatory in Washington D.C.

Throughout his time within the industry, Mr. Martin has provided his services to numerous clients including, Ramapo College of New Jersey, U.S. Department of the Navy, New Jersey Department of Environmental Protection, The College of New Jersey, and New Jersey Division of Property Management and Construction. Mr. Martin was the lead site technician on a 5-year project encompassing the full interior gut / renovation of seven (7) student housing apartment buildings on the campus of Ramapo College. Initially, he conducted a full environmental site assessment for each apartment building and drafted hazardous materials location plans coinciding with the hazardous materials abatement of each building. During the Ramapo College project, Mr. Martin attended construction meetings, negotiated change orders, verified contractor compliance and acted as a liaison between the College's construction management firm, abatement contractor and facility contacts. In addition to Mr. Martin's extensive asbestos background, he has conducted numerous indoor air quality studies and has designed microbial remediation plans and assisted on large scale assessments throughout the Mid-Atlantic region.

Responsibilities

- Drafting floor/building plans and design for abatement of asbestos, lead-paint and mold
- Senior site technician for abatement oversight
- Conducts hazardous materials assessment, including asbestos, lead, PCBs, Universal Waste and mold
- Performs AHERA Inspections/ Audits
- Asbestos on-site analyst during abatement projects
- Assists in indoor air quality investigations and their subsequent remedial activities
- Drafts/designs microbial remediation plans
- Provides microbial inspection, testing and clearance evaluations

Mathieu Chapuis

Asbestos/Lead Paint Support (USAEMI)

Education

University of Pittsburgh
– Environmental Studies,
Bachelor of Arts

Certifications

USEPA, AHERA/ASHARA, NJ
Department of Community
Affairs, Asbestos Safety
Technician

USEPA AHERA/ASHARA,
Building Inspector

USEPA AHERA/ASHARA,
Management Planner

NIOSH 582 Equivalency
Trained

AIHA, Asbestos Analyst
Registry, No. 9736

USEPA/AHERA/New Jersey,
Contractor/Supervisor
Certification

OSHA HAZWOPER 40-Hour
Certification

PA, Lead Abatement Project
Designer

DE, Asbestos Project Monitor

Mr. Chapuis has experience in performing asbestos inspections, air monitoring, and asbestos site assessments. His experience includes on-site supervision of asbestos abatement projects, on-site analysis, and finalizing each project with comprehensive reports. Furthermore, during his time within the industry, Mr. Chapuis has established experience leading mold investigations and assisting with indoor air quality assessments. He also performs AHERA inspections for school districts throughout New Jersey and the greater Philadelphia area.

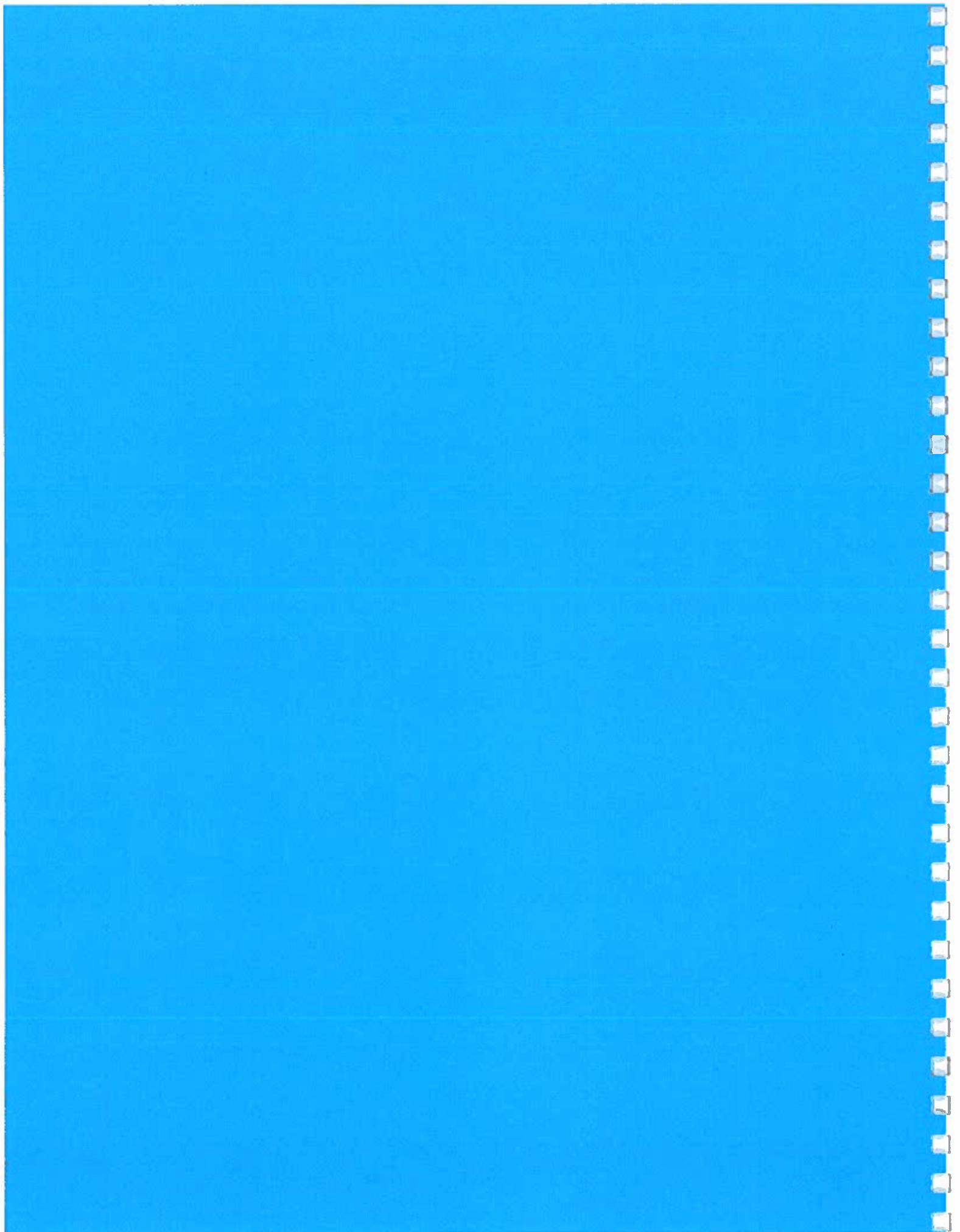
During his time working as an Environmental Technician for USAEMI, Mr. Chapuis has worked for clients such as The College of New Jersey, New Jersey Department of Environmental Protection, New Jersey Division of Property Management and Construction, and the Department of Transportation. He has performed dozens of pre-demolition asbestos surveys for the NJDEP; as well as provided construction administrative services associated with the remediation of hazardous materials and contractor oversight. Mr. Chapuis professionally communicates with Clients, both private and public, to ensure efficient project progress and the continuation of upstanding relationships.

Responsibilities

- Hazardous materials assessment investigator for asbestos, lead-paint, universal waste, PCBs and microbial impacts
- Sample collection and laboratory data interpretation
- Hazardous materials report preparation and laboratory result integration
- Maintains quality control between data/sample collection and report presentation
- Supervises contractor actions for asbestos, universal waste, lead-paint and mold remediation projects
- Provides on-site contract document interpretation and direction for compliance with applicable regulations and occupant health and safety
- Performs AHERA audits and inspection for Client regulatory compliance
- Completes data updates for AHERA inspections and applies appropriate response actions
- Provides Client based AHERA Management Plan training and follow-up assistance
- Provides environmental consulting on asbestos, indoor air quality, site remediation/site investigation and lead-paint issues to ensure Client compliance with regulations
- Conducts indoor air quality investigations and develops appropriate recommendations for additional investigation, testing or remedial actions

02

**Experience on Projects
of a Similar Size and Nature**



Demolition Consultant Term Contract for the NJDEP Sandy Blue Acres Acquisition Program Various Locations, NJ

AECOM was selected to provide demolition design and construction administration services for the DEP Sandy Blue Acres Acquisition Program. Services included the development of preliminary surveys, assessments, scopes of work, design documents and specifications for the demolition, proper disposal and disposition of buildings and structures on designated properties in the floodways of the Delaware River, Passaic River, and Raritan River and their respective tributaries for return to recreation and conservation. Acquisition properties had either been damaged by, may be damaged by, or may be prone to incurring damage caused by storms or storm-related flooding, or may buffer or protect other lands from such damage. The Blue Acres program was funded from a number of sources including HUD CDBG and FEMA.

The contract was a multiple award 3-year term contract, with (2) 1 year extensions. Eleven individual work orders were awarded over the course of the 5 year program to provide demolition design at 100 properties. Typical requirements at each property included building demolition, side walk and pavement removal, garage and out building demolition, utility removal (water and sewer), asbestos removal, soil erosion control, backfill, topsoil and seeding.

Services included the following:

Property Assessment/Utility Disconnect

- Secure access for each residence/building by obtaining, copying, and returning building keys
- Prominently mark address on residences to be demolished
- Conduct a site walkthrough of all the sites and photo-documenting the condition
- Perform an environmental site assessment investigation, including lead/asbestos sampling and testing

Design Plans and Specifications

- Prepare demolition design plans and specifications
- Create a CSI formatted construction cost estimate
- Secure permits required for completion of the work (soil erosion and sediment control permits, as required)

Bid/Award Services

- Provide assistance with bid process
- Attend pre-bid Meeting, record and provide meeting minutes
- Respond to bidders Questions and prepare bulletins as required
- Attend bid review meeting, review bids from contractors and provide recommendation of award letter for lowest responsible bidder

Construction Administration

- Attend project kick-off meeting, record and provide meeting minutes
- Review/approve submittals
- Prepare permit jackets
- Review and process contractor invoices and change order requests
- Participate in punchlist walkthrough and prepare punchlist report
- Complete closeout documents

Management of the Reconstruction, Rehabilitation, Elevation and Mitigation Program (RREM) for the State of New Jersey Department of Community Affairs Various Locations, NJ

AECOM was selected to provide to design, and administer the evaluation, bidding and construction of homes damaged by super storm Sandy.

As Lead RREM Contractor, AECOM is preparing program policies and procedures and managing the homebuilder prequalification process. AECOM is also working with the State to develop various building options that will be offered to homeowners, and will ultimately serve as construction manager for the work.

Design service consist of Prototypical Home design for multiple two bed, three and four bedroom homes. Units were based on the designs developed for the Texas program by our Grand Rapids office.

Site evaluation (ECR) – Evaluation of homeowner's property to determine the extent of the damage. The evaluation criteria included developing an estimate, photographs, and lead paint and asbestos.

CM task: The task included site survey, geo-tech, developing a composite pricing by unit price bidding of the typical homes. Manage the assignment of re-construction (new homes) to a pre-selected contractor pool and bidding of the rehabilitation home project again to a per-selected pool of contractors. Also included is administration of the contracts from NTP to final completion and preparation and submittal of all closeout documentation. Administration includes periodic site visits to perform QA/QC and payment inspections.

As Lead RREM Contractor, AECOM is also responsible for selecting and qualifying a pool of Homebuilders who shall become part of the eligible homebuilder pool eligible for reconstruction, rehabilitation, elevation, or mitigation. We will coordinate with the State to identify the varieties of building options that will be offered to Homeowners.

A separate program, called the Superstorm Sandy Housing Incentive Program ("SSHIP"), will first perform all application and intake processes for the Program, determine eligible Applicants, and refer those Applicants to the Contractor.

Once the Applicants have been referred, the Contractor shall then prepare an Estimate of the Cost of Repairs ("ECR"), determine Duplication of Benefit ("DOB"), and make the award determination. The Contractor shall then notify the SSHIP Contractor, who will issue a Notice of Award to the Applicant.

After an award is determined, the Contractor shall then meet with the Homeowner to review the Scope of Work and have the Homeowner sign off on a work write-up. Once the review is completed with the homeowner, the Contractor shall manage a process to improve efficiency by bidding groups of properties units to 3 or more homebuilders. Those homebuilders will be selected to submit bids in accordance with a pre-determined process that is approved by DCA, and ensures reasonable equality and fairness in the assignment of properties. Although properties may be grouped together, each property will be considered a separate unit; therefore a separate quote will need to be submitted for each. Each homeowner will have an individual contract with a homebuilder so it is not expected that one bidder will be awarded all of the units that are bid at the same time. The contract will be offered to the pre-qualified Homebuilder who submitted the lowest bid for each property. If the lowest bidder does not have capacity to undertake the project, the contract will be awarded to the pre-qualified Homebuilder with the next lowest bid. The Contractor will present the winning bidder to homeowner for acknowledgement. The Homeowner may either select that Homebuilder and execute a contract with the Homebuilder, or request an appeal. If the DCA resolves the appeal in favor of the Homeowner, the RREM Contractor will either present the next-lowest priced Homebuilder to the Homeowner, or conduct a new bidding process.

The SSHIP Contractor will be responsible, if applicable, for escrow of additional funds to be used towards the reconstruction, rehabilitation, elevation and mitigation of the property. The RREM contractor shall then issue a Notice to Proceed to the Homebuilder.

(Continued)

The RREM Contractor shall serve as a construction manager and work with the Homeowner and Homebuilder to ensure good quality work and that the home is being built or repaired according to state and local codes and other program requirements, and that the Homeowner's project meets the Program's scheduling needs. The SSHIP Contractor is responsible for closing on the property.

The Contractor shall disburse RREM payments to the Homebuilder once Homebuilder's progress has been verified by the Construction Manager and Homeowner in accordance with the Homeowner/Homebuilder contract and grant terms. Upon final completion of the repairs/reconstruction, the RREM Contractor shall notify the SSHIP Contractor, who will complete the closeout of the Applicant's Grant/Loan. A flowchart of the processes is attached as Exhibit 1.

The Contractor's quote must include staffing for Construction Managers ("CM"). The selected RREM Contractor(s), under the guidance and supervision of the State, shall contribute to the final Program design and shall be responsible for the subsequent implementation of the Program. The Lead RREM Contractor shall be charged with (1) creating a detailed set of administrative procedures for the Program in accordance with the attached draft Program Policies (Exhibit 2) including creating all forms and customer facing forms and policies and then (2) implementing the Program's components in coordination with the Secondary RREM contractors. All RREM Contractors will be responsible for creating their own internal operating methods within the overall program structure. Coordination between Contractors and the SSHIP Contractor is mandatory to assure the seamless referral of Applicants for eligibility determinations; issuing the Notice of Awards in coordination with the SSHIP Contractor; coordinating Homeowner and Homebuilder for construction; oversight and tracking of Homebuilder progress during construction for payments; and assisting the SSHIP Contractor in Applicant close-out as needed. All policies and procedures will be reviewed by DCA and approved prior to implementation.

Deconstruction of 130 Liberty Street (Deutsche Bank)

New York, NY

130 Liberty Street or Deutsche Bank Building, is a 42-two-story, approximately 1.5 million square foot office building located at the southern border of the former World Trade Center complex. Suffering irreparable damage after the events of 9/11, the building was deconstructed to below the top of the foundation walls. The systematic deconstruction was necessary due to the badly contaminated state having absorbed the debris from the collapse of the World Trade Center South Tower. The project involved removal and disposal of all interior walls, stairs, ceilings, floor coverings, mechanical, electrical and plumbing items, and exterior skin. Removal of superstructure concrete and structural steel was carefully sequenced with approved environmental controls reviewed by the appropriate regulatory agencies.

The project included the abatement of over 1.5-million-sf of space under a contained asbestos project. All interior materials, equipment, partitions and furniture were treated and removed as asbestos containing materials.

LMDC enter into a negotiated contract with a contractor for the deconstruction of the building and structures located at the 130 Liberty Site. It was anticipated that the contractor would, in turn, enter into subcontracts with entities to perform the gross cleaning, general demolition, mechanical plumbing, sprinkler, and electrical work necessary as part of the deconstruction, as well as the environmental monitoring services that will be required. The work consisted generally of:

- Gross cleaning and preparation of the building at the 130 Liberty Street Site for demolition
- Deconstructing and demolishing the building
- Undertaking environmental monitoring during the demolition of the building
- Transporting all waste and debris from the 130 Liberty Street Site and disposing of same
- Upon completion of the deconstruction and removal, backfilling, grading and paving the Site as appropriate



As part of our construction management services on the oversight of the demolition of this 42 story hi-rise structure extensive work was required in the disconnection and rerouting of the electrical power distribution for the building. As demolition was being planned, the first efforts required the removal of asbestos containing materials which required new electrical power distribution to be set on each floor to accommodate the abatement operations.

Since many of the electrical systems were damaged by the collapse of the adjacent World Trade center towers, the project required a parallel system of new power as the existing damage electrical service was terminated. This was performed by a floor by floor termination from panel's boxes to transformers and traced to the switchboard service.

(Continued)

The work included bringing new electrical feeds from the Con Ed service vault into the building, and tap into the existing service switchboard. In order to distribute new power separate raceways were required as was 112.5KVA transformers that needed to be installed in strategic locations throughout the 42 story, 1.5M sf structure. Additional electrical service included additional disconnect switches and fuses ranging from 100AMP to 3000AMP units to isolate the service by floor groups and provide new connections to serve the hoist and other equipment as well as all power and lighting as the demo operations removed the old electrical system.

Other electrical work required the installation of an 800AMP and a 600AMP service from another Con Ed service point to provide service to the building from another building location feed, to allow the demolition to proceed. Involved with this work was installation of 225KVA transformers, 200A Disconnect switches, service grounding systems and raceways involving 500MCM cabling that feed the structure at critical points of entry where service was required.

Follow up work required the strategic disconnection of all electrical service connections and raceway cabling as the hi-rise was dismantled.

Additional Project Background:

After the events of September 11, 2001, the Deutsche Bank Building was severely damaged and unoccupied. Pursuant to a mediated settlement agreement among Deutsche Bank, its insurers, and LMDC, LMDC acquire the 130 Liberty Street Site and was responsible for costs associated with the remediation and deconstruction of the Deutsche Bank Building. The acquisition of the 130 Liberty Street site was necessary for the implementation of the WTC Memorial and Redevelopment Plan insofar as it permitted the construction of bus parking, reduced density on the WTC site by moving the proposed fifth office tower to the 130 Liberty Street site, and reservation of sufficient space for the proposed Memorial and Cultural Facilities on the WTC site itself.

LMDC contributed funding for the design, development, and construction of the Memorial and Memorial Center, the acquisition, remediation, and Deconstruction of the 130 Liberty Street site, and provided challenge grants to assist in the costs of creating the WTC Cultural Center. The LMDC oversaw the overall implementation of the Memorial, Memorial Center, and Cultural Programming and possibly, elements of the Redevelopment Program, including all required coordination with the Port Authority, HUD, the State of New York, the City of New York, and other public and private entities. LMDC also continued to coordinate the Memorial Program with the plans and implementation schedule for the Redevelopment Program.



Bristol Myers Squibb Syracuse Site Transformation Project | Syracuse, NY

AECOM teamed with The Pike Company, General Contractors and Construction Managers, to support Bristol Myers Squibb (BMS) with the Syracuse Site Transformation Project. The project entails the renovation and reuse of certain buildings along decontamination, materials recovery and the demolition of other buildings and structures as part of the BMS Syracuse Campus Transformation Project.

AECOM provided Construction Management and demolition service support as a partner to The Pike Company. Our Construction Management services include Environmental Health and Safety along with design services during construction, cost estimating and schedule management support.

The first phase of the Transformation included the demolition of 40 above grade structures, a tank farm, a cooling tower and an exterior pipe rack system. The services include the removal of all equipment and internal piping associated with the structures. Structures range in size from small warehouse facilities to multiple story, former research and production facilities with floor space in excess of 100,000 square feet.

The first phase of the Transformation Project was performed in a series of steps to allow the continuation of research and production in refocused facilities. The work includes the construction of new infrastructure along with the redevelopment of existing structures.



DSNY M1 Garage Demolition

New York, NY

On behalf of the Department of Sanitation, City of New York, AECOM prepared a complete bid package of demolition drawings and specifications for the removal of the two-story, 13,000 SF M-1 Sanitation garage located on Spring Street in Manhattan. The two story masonry structure consisted of concrete slab on grade, steel beams with composite metal floor slab at the mezzanine and a wood roof structure supported on steel girders. The roof deck was supported on perimeter masonry bearing walls and interior steel girders were supported on interior steel columns.

The \$650,000 dollar demolition was complicated due to its location, adjacent to the historically recognized Holland tunnel ventilation tower and due to the age (1920) of the garage.

AECOM investigated and documented the locations of the ventilation and roadway tubes servicing the Holland tunnel. AECOM coordinated and obtained approval from the Port Authority of New York and New Jersey for performing demolition activities in close proximity to the ventilation and roadway tubes and verified that demolition activities would not adversely affect their operations.

Due to the age of the existing garage, the DSNY had no existing condition documents available for AECOM' use. AECOM prepared as-built documents base on our field investigation. To document the existing facilities foundation, AECOM performed an archival search of the Department of Building records, obtained microfiche and had them translated into drawing files. Demolition drawings identified locations of DSNY equipment and building system electrical and mechanical devices, HVAC ductwork and rooftop equipment.

Demolition drawings and specifications also addressed environmental issues including an abatement specification for asbestos containing roof materials as well as removal of existing diesel fuel storage tanks, sand traps and contaminated soil.



Principal Client Issues

- Proximity to PANYNJ ventilation building
- Underground fuel storage tanks and soil remediation

Solutions Provided by AECOM

- Coordinated approval of PANYNJ and DOB
- Remediation specs incorporated into the work

Benefits Realized by the Client

- Approval by DOB to remove the building
- Single design firm prepared entire package

KEY TEAM MEMBER PROJECT EXPERIENCE DATA SHEET

NAME Kim Vierheilig

TITLE Principal in Charge

FIRM AECOM

PROJECT TITLE LOCATION AND TOTAL CONSTRUCTION COST OR FEE	A/E OF RECORD FOR THIS REFERENCED PROJECT	SPECIFIC TYPE OF WORK EXPERIENCE (STUDY, SCHEMATIC, CONSTRUCTION ADMINISTRATION)	TEAM MEMBERS SPECIFIC ROLE OR TITLE ON THE REFERENCED PROJECT	DURATION OF TEAM MEMBER'S INVOLVEMENT OF THE REFERENCED PROJECT (IN MONTHS)	% OF TIME DURING DURATION BASED UPON A 40 HOUR WEEK	DATES OF THE TEAM MEMBER'S INVOLVEMENT IN THE REFERENCED PROJECT	CLIENT NAME CONTRACT PERSON AND PHONE NUMBER
Bergen County Special Services School District	AECOM	Schematic Design through Construction Administration	Principal in Charge	6 months	5%	2018-2019	
Woodbridge Board of Education On-Call	AECOM	Schematic Design through Construction Administration	Principal in Charge	2 months	10%	2019	
Verona Board of Education On-Call	AECOM	Schematic Design through Construction Administration	Principal in Charge	8 months	5%	2018-2019	

* A KEY TEAM MEMBER IS A TECHNICAL OR MANAGEMENT PERSON DEVOTING 20% OR MORE OF THEIR TIME TO ANY PHASE OF THE PROJECT



KEY TEAM MEMBER PROJECT EXPERIENCE DATA SHEET

NAME Majed KhouryTITLE QA ManagerFIRM AECOM

PROJECT TITLE LOCATION AND TOTAL CONSTRUCTION COST OR FEE	A/E OF RECORD FOR THIS REFERENCED PROJECT	SPECIFIC TYPE OF WORK EXPERIENCE (STUDY, SCHEMATIC, CONSTRUCTION ADMINISTRATION)	TEAM MEMBERS SPECIFIC ROLE OR TITLE ON THE REFERENCED PROJECT	DURATION OF TEAM MEMBER'S INVOLVEMENT OF THE REFERENCED PROJECT (IN MONTHS)	% OF TIME DURING DURATION BASED UPON A 40 HOUR WEEK	DATES OF THE TEAM MEMBER'S INVOLVEMENT IN THE REFERENCED PROJECT	CLIENT NAME CONTRACT PERSON AND PHONE NUMBER
NJ DPMC Blue Acres Demolition Program (Multiple Work Orders)	AECOM	Senior Technical Reviews and QA audits of Project Products	QA Manager	30 months	less than 5%	2015-2018	NJDPMC
Raritan Milsstone Water Treatment Plant Flood Protection Structures Improvements	AECOM	Senior Technical Reviews and QA audits	Senior Technical Reviewer	40 Months	5%-10%	2014-2017	NJ American Water Company
Failure Investigations and Assessment of Fixes/Replacement of Spillway and Related Structures	AECOM	Senior Technical Reviews	Senior Technical Reviewer	36 months	5%-10%	2014-2016	Atlantic County, NJ

* A KEY TEAM MEMBER IS A TECHNICAL OR MANAGEMENT PERSON DEVOTING 20% OR MORE OF THEIR TIME TO ANY PHASE OF THE PROJECT

KEY TEAM MEMBER PROJECT EXPERIENCE DATA SHEET

NAME Kristy Gasparino, AIA, NCARB, LEED AP

TITLE Associate Vice President, Program Manager

FIRM AECOM

PROJECT TITLE LOCATION AND TOTAL CONSTRUCTION COST OR FEE	A/E OF RECORD FOR THIS REFERENCED PROJECT	SPECIFIC TYPE OF WORK EXPERIENCE (STUDY, SCHEMATIC, CONSTRUCTION ADMINISTRATION)	TEAM MEMBERS SPECIFIC ROLE OR TITLE ON THE REFERENCED PROJECT	DURATION OF TEAM MEMBER'S INVOLVEMENT OF THE REFERENCED PROJECT (IN MONTHS)	% OF TIME DURING DURATION BASED UPON A 40 HOUR WEEK	DATES OF THE TEAM MEMBER'S INVOLVEMENT IN THE REFERENCED PROJECT	CLIENT NAME CONTRACT PERSON AND PHONE NUMBER
NJ DPMC Blue Acres Demolition Program, WO63 - \$400K	URS/AECOM	Field assessment, Construction Documents, Bid	Program/Proje ct Manager	4 months	20%	November 2018 - Present	
USPS Program Management Support Contract, National, \$250M	URS/AECOM	National Program includes Studies, Assessments, Schematic Design, Design Development, Construction Documents, Construction Administration, CM at Risk	Program Manager	22 months	60%	May 2016 - March 2018	
USPS Bellevue, WA VMF - Abatement Building Demolition and Excavation Project, \$1.5M	URS/AECOM	Schematic Design through Construction Documents and Bid Phase	Program/Proje ct Manager	10 months	20%	July 2017 - May 2018	
Buffalo Municipal Housing Authority - Demolition and Fire Restoration Project at Grove St/LaSalle Courts, \$1M (HUD funding)	AECOM	Construction Documents through Construction Management	Program/Proje ct Manager	6 months	20%	October 2018 - Present	
Dormitory Authority of the State of New York Project Portfolio - University Repair work across NYC, various projects, \$3M	URS/AECOM	Program includes Studies, Assessments, Schematic Design, Design Development, Construction Documents, Construction Administration	Program/Proje ct Manager	12 months	20%	April 2017 - March 2018	

KEY TEAM MEMBER PROJECT EXPERIENCE DATA SHEET

NAME Humberto MoralesTITLE Project/Work Order ManagerFIRM AECOM

PROJECT TITLE LOCATION AND TOTAL CONSTRUCTION COST OR FEE	A/E OF RECORD FOR THIS REFERENCED PROJECT	SPECIFIC TYPE OF WORK EXPERIENCE (STUDY, SCHEMATIC, CONSTRUCTION ADMINISTRATION)	TEAM MEMBERS SPECIFIC ROLE OR TITLE ON THE REFERENCED PROJECT	DURATION OF TEAM MEMBER'S INVOLVEMENT OF THE REFERENCED PROJECT (IN MONTHS)	% OF TIME DURING DURATION BASED UPON A 40 HOUR WEEK	DATES OF THE TEAM MEMBER'S INVOLVEMENT IN THE REFERENCED PROJECT	CLIENT NAME CONTRACT PERSON AND PHONE NUMBER
NJ DPMC Blue Acres Demolition Program (Multiple Work Orders)	URS/AECOM	Field assessment, Document preparation, CA and Close Out Documentation. Cost estimate take- offs	Technical Lead	34 Months	80% during WO	June 2016 to March 2019	
NJ RREM Project	URS	Field assessment and document preparation, Rehabilitation or Elevation Documents prepared.	Technical Lead	7 Months	100%	August 2013 to February 2014	
Amtrak ADA Station Upgrade Project (Nation Wide)	URS/AECOM	Construction Administration Services. Field assessments for Substantial and Final Completion.	Technical Lead	60 Months	80%	March 2014 to March 2019	
USPS, Jamaica NY Air Mail Facility	URS	Field assessments to identify condition of the facilities 44 restrooms. Prepare remedial Construction Documents and Cost Estimates.	Technical Lead	6 Months	90%	October 2015 to March 2016	
NYC DEP, East Branch Aeration Pump Station	URS	Field assessments and preparation of Construction Documents.	Technical Lead	8 Months	90%	January 2014 to August 2014	

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KEY TEAM MEMBER PROJECT EXPERIENCE DATA SHEET

NAME Abigail Benjamin, RA, Assoc. AIA, CNU-A

TITLE Project/Work Order Manager

FIRM AECOM

PROJECT TITLE LOCATION AND TOTAL CONSTRUCTION COST OR FEE	A/E OF RECORD FOR THIS REFERENCED PROJECT	SPECIFIC TYPE OF WORK EXPERIENCE (STUDY, SCHEMATIC, CONSTRUCTION ADMINISTRATION)	TEAM MEMBERS SPECIFIC ROLE OR TITLE ON THE REFERENCED PROJECT	DURATION OF TEAM MEMBER'S INVOLVEMENT OF THE REFERENCED PROJECT (IN MONTHS)	% OF TIME DURING DURATION BASED UPON A 40 HOUR WEEK	DATES OF THE TEAM MEMBER'S INVOLVEMENT IN THE REFERENCED PROJECT	CLIENT NAME CONTRACT PERSON AND PHONE NUMBER
Buffalo Municipal Housing Authority - Demolition and Fire Restoration Project at Grove St/LaSalle Courts, \$1M	AECOM	Construction Documents through Construction Management	Architect	6 months	20%	October 2018 - Present	
New Jersey Reconstruction, Rehabilitation, Elevation, and Mitigation (RREM)	URS Corporation	Construction Documents through Pre Construction	Architect	5 months	100%	August 2013 - January 2014	
Kilmer P&DC Site Paving	URS Corporation	Schematic Design	Architect	3 months	20%	May 2014 - July 2014	
Northeast Bundle Assessment Reports	AECOM	Assessment	Architect	5 months	40%	January 2015 - May 2015	

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KEY TEAM MEMBER PROJECT EXPERIENCE DATA SHEET

NAME Gerald Andrada

TITLE Project/Work Order Manager

FIRM AECOM

PROJECT TITLE LOCATION AND TOTAL CONSTRUCTION COST OR FEE	A/E OF RECORD FOR THIS REFERENCED PROJECT	SPECIFIC TYPE OF WORK EXPERIENCE (STUDY, SCHEMATIC, CONSTRUCTION ADMINISTRATION)	TEAM MEMBERS SPECIFIC ROLE OR TITLE ON THE REFERENCED PROJECT	DURATION OF TEAM MEMBER'S INVOLVEMENT OF THE REFERENCED PROJECT (IN MONTHS)	% OF TIME DURING DURATION BASED UPON A 40 HOUR WEEK	DATES OF THE TEAM MEMBER'S INVOLVEMENT IN THE REFERENCED PROJECT	CLIENT NAME CONTRACT PERSON AND PHONE NUMBER
USPS Mail Processing Plants/McDonald's Restaurants Rebuild/Renovation (Multiple Work Orders)	URS/AECOM	Field assessment, Document preparation, CA and Close Out Documentation. Cost estimate take-offs.	Technical Lead Rashmi Chowranna	15 years	80% during WO	May2004 to Current	
USPS Mail Processing Plants/McDonald's Restaurants Rebuild/Renovation (Multiple Work Orders)	AECOM	Field assessment, Document preparation, CA and Close Out Documentation. Cost estimate take-offs.	Draftsperson Harbey Macias	17 years	80% during WO	February 2002 to Current	
McDonald's Restaurants Rebuild/Renovation (Multiple Work Orders)	AECOM	Field assessment, Document preparation, CA and Close Out Documentation. Cost estimate take-offs.	Technical Lead Vivy Wang	2 years	80% during WO	January 2017 to Current	
McDonald's Restaurants Rebuild/Renovation (Multiple Work Orders)	AECOM	Field assessment, Document preparation, CA and Close Out Documentation. Cost estimate take-offs.	Technical Lead Maman Hamissou	3 years	80% during WO	March 2016 to Current	

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KEY TEAM MEMBER PROJECT EXPERIENCE DATA SHEET

NAME Jeffrey BurkeTITLE Technical PrincipalFIRM AECOM

PROJECT TITLE LOCATION AND TOTAL CONSTRUCTION COST OR FEE	A/E OF RECORD FOR THIS REFERENCED PROJECT	SPECIFIC TYPE OF WORK EXPERIENCE (STUDY, SCHEMATIC, CONSTRUCTION ADMINISTRATION)	TEAM MEMBERS SPECIFIC ROLE OR TITLE ON THE REFERENCED PROJECT	DURATION OF TEAM MEMBER'S INVOLVEMENT OF THE REFERENCED PROJECT (IN MONTHS)	% OF TIME DURING DURATION BASED UPON A 40 HOUR WEEK	DATES OF THE TEAM MEMBER'S INVOLVEMENT IN THE REFERENCED PROJECT	CLIENT NAME CONTRACT PERSON AND PHONE NUMBER
New York Police Academy; Queens NY	Perkins+Will	Senior Project Architect responsible for portions of work for a new 35 acre facility	Senior Project Architect	16 Months	100%	July 2009 to October 2011	
Katz Womens Hospital, New Building - \$240M	SOM	Lead project architect	Associate Director	24 Months	100%	3/07 to 3/09	
Kings County Hospital Building S - New Building, \$220M	SOM	Lead project architect	Associate Director	60 months	100%	3/1998 - 3/2003	
Kings County Hospital Building D New Building \$80M	SOM	Lead project architect	Associate Director	60 Months		3/2001 to 3/2003	
Kings County Hospital Building E Major Rehabilitation - \$30M	SOM	Lead project architect	Associate Director	30 Months		11/1/1997 - 11/2001	
Memorial Sloan Kettering Hospital Koch Building \$900M JV between	Perkins+Will	Project Manager	Senior Associate	24 Months	100%	5/2012 - 5/2014	

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KEY TEAM MEMBER PROJECT EXPERIENCE DATA SHEET

NAME Stacy WellsTITLE Safety ManagerFIRM AECOM

PROJECT TITLE LOCATION AND TOTAL CONSTRUCTION COST OR FEE	A/E OF RECORD FOR THIS REFERENCED PROJECT	SPECIFIC TYPE OF WORK EXPERIENCE (STUDY, SCHEMATIC, CONSTRUCTION ADMINISTRATION)	TEAM MEMBERS SPECIFIC ROLE OR TITLE ON THE REFERENCED PROJECT	DURATION OF TEAM MEMBER'S INVOLVEMENT OF THE REFERENCED PROJECT (IN MONTHS)	% OF TIME DURING DURATION BASED UPON A 40 HOUR WEEK	DATES OF THE TEAM MEMBER'S INVOLVEMENT IN THE REFERENCED PROJECT	CLIENT NAME CONTRACT PERSON AND PHONE NUMBER
Croton Water Treatment Plant Construction	ARCADIS	Safety	Safety Manager	108 Months	100%	August 2008 to May 2017	

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KEY TEAM MEMBER PROJECT EXPERIENCE DATA SHEET

NAME Christine Wagner

TITLE Site Assessments

FIRM AECOM

PROJECT TITLE LOCATION AND TOTAL CONSTRUCTION COST OR FEE	A/E OF RECORD FOR THIS REFERENCED PROJECT	SPECIFIC TYPE OF WORK EXPERIENCE (STUDY, SCHEMATIC, CONSTRUCTION ADMINISTRATION)	TEAM MEMBERS SPECIFIC ROLE OR TITLE ON THE REFERENCED PROJECT	DURATION OF TEAM MEMBER'S INVOLVEMENT OF THE REFERENCED PROJECT (IN MONTHS)	% OF TIME DURING DURATION BASED UPON A 40 HOUR WEEK	DATES OF THE TEAM MEMBER'S INVOLVEMENT IN THE REFERENCED PROJECT	CLIENT NAME CONTRACT PERSON AND PHONE NUMBER
Project Aviator - Confidential Pharmaceutical Multiple Sites in USA and Scotland (\$40,000)	N/A	Pre-Acquisition Phase I Environmental Site Assessment and Environmental Compliance Review of 5 Pharmaceutical properties in USA and Scotland.	Christine Wagner	3	20	October - December 2018	
Goodyear Tire & Rubber Co. - Parsippany, New Jersey (\$45,000)	Akta Patel, PE	Phase I Environmental Site Assessment, Site Investigation and Remedial Action	Michael Akerbergs, LSRP	10	20	December 2016- October 2017	
Church & Dwight Co., Inc. Pre-Acquisition Due Diligence & Limited EHS Compliance Review, Mason City, Iowa (\$48,000)	N/A	Phase I Environmental Site Assessment, Site Investigation and Environmental Compliance Support Activities	Christine Wagner	10	20	January 2015 - October 2015	
Goodyear Tire & Rubber Co. - Wayne, New Jersey (\$53,000)	N/A	Phase I Environmental Site Assessment, Site Investigation and Remedial Action	Cathy Bryant, LSRP	7 (ongoing)	10	July 2018 - Present	

KEY TEAM MEMBER PROJECT EXPERIENCE DATA SHEET

NAME Eric Bodnar

TITLE Plans & Specifications

FIRM AECOM

PROJECT TITLE LOCATION AND TOTAL CONSTRUCTION COST OR FEE	A/E OF RECORD FOR THIS REFERENCED PROJECT	SPECIFIC TYPE OF WORK EXPERIENCE (STUDY, SCHEMATIC, CONSTRUCTION ADMINISTRATION)	TEAM MEMBERS SPECIFIC ROLE OR TITLE ON THE REFERENCED PROJECT	DURATION OF TEAM MEMBER'S INVOLVEMENT OF THE REFERENCED PROJECT (IN MONTHS)	% OF TIME DURING DURATION BASED UPON A 40 HOUR WEEK	DATES OF THE TEAM MEMBER'S INVOLVEMENT IN THE REFERENCED PROJECT	CLIENT NAME CONTRACT PERSON AND PHONE NUMBER
NJDEP Rebuild By Design Hudson (Sewer Separation & Interior Drainage Design)	AECOM	Field assessment, Design Development, Document preparation, Cost estimate take-offs, Permitting support.	Technical Lead - Civil/Drainage	24 months	50% during WO	February 2018 to January 2020	
NYCDEP - Jerome Park Reservoir & Aqueduct Rehabilitation Project	AECOM	Field assessment, Design Development, Document preparation, Cost estimate take-offs, Project Coordination	Project Manager & Technical Lead - Civil	60 months	20% during WO	February 2014 to present	

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KEY TEAM MEMBER PROJECT EXPERIENCE DATA SHEET

NAME Akta Patel

TITLE Environmental Compliance

FIRM AECOM

PROJECT TITLE LOCATION AND TOTAL CONSTRUCTION COST OR FEE	A/E OF RECORD FOR THIS REFERENCED PROJECT	SPECIFIC TYPE OF WORK EXPERIENCE (STUDY, SCHEMATIC, CONSTRUCTION ADMINISTRATION)	TEAM MEMBERS SPECIFIC ROLE OR TITLE ON THE REFERENCED PROJECT	DURATION OF TEAM MEMBER'S INVOLVEMENT OF THE REFERENCED PROJECT (IN MONTHS)	% OF TIME DURING DURATION BASED UPON A 40 HOUR WEEK	DATES OF THE TEAM MEMBER'S INVOLVEMENT IN THE REFERENCED PROJECT	CLIENT NAME CONTRACT PERSON AND PHONE NUMBER
Essex County - Environmental Engineering Services, New Jersey (Multiple Work Orders) \$1 Million	AECOM	LSRP Services, UST Closure, Site Assessment, environmental investigation and remediation, and Cost estimates.	Project Manager	12 months	20%	March 2018 to March 2019	
Chromium Remediation, New Jersey (Multiple Work Orders) \$10 Million	AECOM	Field assessment, Asbestos and LBP Abatement, UST Closure, building demolition, Soil Excavation, Design/Construction Documents, Cost estimates	Technical Lead	24 months	50%	March 2016 to March 2019	
Former Essex Chemical Facility	AECOM	LSRP Services, UST Closure, Site Assessment, environmental investigation and remediation, and Cost estimates.	Project Manager	84 months	10%	March 2012 to March 2019	

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KEY TEAM MEMBER PROJECT EXPERIENCE DATA SHEET

NAME Sherri Albrecht

TITLE Permitting Coordination & Approvals

FIRM AECOM

PROJECT TITLE LOCATION AND TOTAL CONSTRUCTION COST OR FEE	A/E OF RECORD FOR THIS REFERENCED PROJECT	SPECIFIC TYPE OF WORK EXPERIENCE (STUDY, SCHEMATIC, CONSTRUCTION ADMINISTRATION)	TEAM MEMBERS SPECIFIC ROLE OR TITLE ON THE REFERENCED PROJECT	DURATION OF TEAM MEMBER'S INVOLVEMENT OF THE REFERENCED PROJECT (IN MONTHS)	% OF TIME DURING DURATION BASED UPON A 40 HOUR WEEK	DATES OF THE TEAM MEMBER'S INVOLVEMENT IN THE REFERENCED PROJECT	CLIENT NAME CONTRACT PERSON AND PHONE NUMBER
NJDEP RBD-Hudson (Multiple Work Orders)	AECOM	Identification of required permits & approvals; agency coordination; permit application preparation; input to design re: regulatory constraints and requirements.	Technical Lead	8 months +	10% to 50%	August 2018 to Present	
NJDEP RBD-Meadowlands (Multiple Work Orders)	AECOM	Identification of required permits & approvals; agency coordination; permit application preparation; input to design re: regulatory constraints and requirements.	Technical Lead	22 months +	10% to 50%	June 2017 to Present	
South Shore of Staten Island Coastal Storm Risk Management (multiple work orders)	AECOM	ecological studies; water level studies; restoration design; permitting.	Technical Lead	23 months +	10% to 50%	May 2017 to Present	

KEY TEAM MEMBER PROJECT EXPERIENCE DATA SHEET

NAME Jens Muller, RA

TITLE Construction Administration & Oversight

FIRM AECOM

PROJECT TITLE LOCATION AND TOTAL CONSTRUCTION COST OR FEE	A/E OF RECORD FOR THIS REFERENCED PROJECT	SPECIFIC TYPE OF WORK EXPERIENCE (STUDY, SCHEMATIC CONSTRUCTION ADMINISTRATION)	TEAM MEMBERS SPECIFIC ROLE OR TITLE ON THE REFERENCED PROJECT	DURATION OF TEAM MEMBER'S INVOLVEMENT OF THE REFERENCED PROJECT (IN MONTHS)	% OF TIME DURING DURATION BASED UPON A 40 HOUR WEEK	DATES OF THE TEAM MEMBER'S INVOLVEMENT IN THE REFERENCED PROJECT	CLIENT NAME CONTRACT PERSON AND PHONE NUMBER
Dormitory Authority of the State of New York Hunter College Roof Replacement \$4-6 Mil Multiple Phases	AECOM	Technical Design Review, Field assessment, Document preparation, CA and Close Out Documentation. Cost estimate take-offs.	Arch Technical Lead	27 months	25% during WO	December 2018- Current	
Dormitory Authority of the State of New York Hunter College Roof Replacement \$4-8 Mil Multiple Phases	AECOM	Technical Design Review, Field assessment, Document preparation, CA and Close Out Documentation. Cost estimate take-offs.	Arch Technical Lead	27 months	25% during WO	December 2018- Current	
PANYNJ Bus Terminal Escalator Replacement	AECOM	Technical Design Review, Field assessment, Document preparation, CA and Close Out Documentation. Cost estimate take-offs.	Arch Technical Lead	12 months	25% during WO	March 2018-Current	
MTA Jamaica Control Center	AECOM	Technical Design Review, Field assessment, Document preparation, CA and Close Out Documentation. Cost estimate take-offs.	Arch Technical Lead	13 months	25% during WO	January 2018-Current	
MTA Positive Control Terminal- Grand Central Terminal	AECOM	Technical Design Review, Field assessment, Document preparation, CA and Close Out Documentation. Cost estimate take-offs.	Arch Technical Lead	11 months	25% during WO	February 2018- Current	

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KEY TEAM MEMBER PROJECT EXPERIENCE DATA SHEET

NAME Ann Terranova

TITLE Public Outreach Lead

FIRM AECOM

PROJECT TITLE LOCATION AND TOTAL CONSTRUCTION COST OR FEE	A/E OF RECORD FOR THIS REFERENCED PROJECT	SPECIFIC TYPE OF WORK EXPERIENCE (STUDY, SCHEMATIC, CONSTRUCTION ADMINISTRATION)	TEAM MEMBERS SPECIFIC ROLE OR TITLE ON THE REFERENCED PROJECT	DURATION OF TEAM MEMBER'S INVOLVEMENT OF THE REFERENCED PROJECT (IN MONTHS)	% OF TIME DURING DURATION BASED UPON A 40 HOUR WEEK	DATES OF THE TEAM MEMBER'S INVOLVEMENT IN THE REFERENCED PROJECT	CLIENT NAME CONTRACT PERSON AND PHONE NUMBER
Virgin Islands Housing Finance Authority Emergency Home Repairs Program	AECOM	Community Engagement and Strategic Communications, Public Relations	Deputy Program Manager	13 months	50%	February 2018 to Present	
FEMA Floodplain Management Division Floodplain Management Task Order (under Hazard Mitigation Technical Assistance Contract)	AECOM	FEMA Floodplain Management Division technical and communications support, NFIP enrollments, Community Rating System support, FEMA publications and policy support	Task Order Manager	48 months (4 successive 12-month task order awards)	25%	September 2012 through August 2016	
FEMA Risk Mapping and Assessment Program Production Technical Services Contract	AECOM (as RAMPP JV partner)	Strategic Communications and Public Involvement support of FEMA's Flood Risk Mapping Program	Program Area D Co-Lead	36 months	40%	August 2011 through August 2014 (confirm)	

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KEY TEAM MEMBER PROJECT EXPERIENCE DATA SHEET

NAME Dan McDaid

TITLE Cost Estimating

FIRM AECOM

PROJECT TITLE LOCATION AND TOTAL CONSTRUCTION COST OR FEE	A/E OF RECORD FOR THIS REFERENCED PROJECT	SPECIFIC TYPE OF WORK EXPERIENCE (STUDY, SCHEMATIC, CONSTRUCTION ADMINISTRATION)	TEAM MEMBERS SPECIFIC ROLE OR TITLE ON THE REFERENCED PROJECT	DURATION OF TEAM MEMBER'S INVOLVEMENT OF THE REFERENCED PROJECT (IN MONTHS)	% OF TIME DURING DURATION BASED UPON A 40 HOUR WEEK	DATES OF THE TEAM MEMBER'S INVOLVEMENT IN THE REFERENCED PROJECT	CLIENT NAME CONTRACT PERSON AND PHONE NUMBER
Green Brook Sub-Basin Flood Control Project: Segment C1; Middlesex, NJ; Approximately \$6 mil	AECOM	Cost Estimating and Scheduling	Cost Estimator	8 months as of March 2019. Project is ongoing	50% during cost estimating phase of project	July 2018 to present	
Green Brook Sub-Basin Flood Control Project: Segments T & R2; Bound Brook, NJ; \$3.7 mil	AECOM	Cost Estimating	Cost Estimator	8 months	50% during cost estimating phase of project	June 2013 to February 2014	
Findeme Mitigation Site; Bridgewater, Somerset County, NJ; : \$662,000	AECOM	Cost Estimating and Scheduling	Cost Estimator	9 months	50% during cost estimating phase of project	June 2017 to March 2018	
Kensico Shoreline Stabilization Project; Kensico Reservoir, Westchester County, NY; \$25.7 mil	AECOM	Cost Estimating and Scheduling	Cost Estimator	35 months	75% during cost estimating phase of project	February 2015 to January 2018	
Bay Park Sewage Treatment Plant Effluent Pumping Facility Improvements, Change Order Estimating	AECOM	Cost Estimating for construction change orders	Cost Estimator	9 months as of March 2019. Project is ongoing	25% during estimating phases of project	May 2018 to present	

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KEY TEAM MEMBER PROJECT EXPERIENCE DATA SHEET

NAME Felipe PolettoTITLE Cost EstimatingFIRM AECOM

PROJECT TITLE LOCATION AND TOTAL CONSTRUCTION COST OR FEE	A/E OF RECORD FOR THIS REFERENCED PROJECT	SPECIFIC TYPE OF WORK EXPERIENCE (STUDY, SCHEMATIC, CONSTRUCTION ADMINISTRATION)	TEAM MEMBERS SPECIFIC ROLE OR TITLE ON THE REFERENCED PROJECT	DURATION OF TEAM MEMBER'S INVOLVEMENT OF THE REFERENCED PROJECT (IN MONTHS)	% OF TIME DURING DURATION BASED UPON A 40 HOUR WEEK	DATES OF THE TEAM MEMBER'S INVOLVEMENT IN THE REFERENCED PROJECT	CLIENT NAME CONTRACT PERSON AND PHONE NUMBER
Klamath River Renewal Project (KRRP)	AECOM	Cost Estimating & Scheduling	Technical Lead for Cost Estimating	30 months	Approx. 20%	January 2016 to August 2018	
AMTRAK, ADASP Station Improvements Program	AECOM	Cost Estimating & Scheduling	Technical Lead for Cost Estimating	30 months	Approx. 20%	September 2016 to March 2019	
US Army Corps of Engineers, Europe District, Kelley Barracks, Stuttgart, Germany	AECOM	Cost Estimating & Scheduling	Technical Lead for Cost Estimating	2 months	Approx. 80%	February 2019 to March 2019	
US Army Corps of Engineers, Europe District, Army Family Housing, Vicenza, Italy	AECOM	Cost Estimating & Scheduling	Technical Lead for Cost Estimating	2 months	Approx. 20%	February 2019 to March 2019	
US Army Corps of Engineers, West Point New York, Grant Barracks Building Renovation	AECOM	Cost Estimating & Scheduling	Technical Lead for Cost Estimating	17 months	Approx. 20%	March 2017 - August 2018	
NIST - National Institute of Standard Testing - Building Renovation	AECOM	Cost Estimating & Scheduling	Technical Lead for Cost Estimating	5 months	Approx. 20%	March 2018 - July 2018	
NAS JAX Renovate B101 FRC-SE Admin. Offices	AECOM	Cost Estimating & Scheduling	Technical Lead for Cost Estimating	2 months	Approx. 20%	March 2018 - April 2018	

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KEY TEAM MEMBER PROJECT EXPERIENCE DATA SHEET

NAME Cathy Bryant, LSRP

TITLE Senior Site Remediation Professional

FIRM AECOM

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Former Simmons Company Facility, SSB Manufacturing Company, \$1.1 M	URS/AECOM	Bedrock ground water remediation	Project Manager	108	20%	2009 - Present	
Spill Response, \$25,000	URS/AECOM	Excavation and LSRP	LSRP	12	10%	August 2014 - May 2017	
Non-asbestos Soil and Groundwater Remediation, \$1 M	URS/AECOM	Prepared soil and groundwater remedial action.	Project Manager and LSRP	108	10%	2009 - Present	
Classification Exception Area (CEA), \$250,000	AECOM	LSRP oversight	LSRP	4	5%	2016 - Present	
Summit Main Post Office, \$20,000	URS/AECOM	GW Remediation and LSRP	Project Manager and LSRP	24	5%	2010-2016 and as needed	

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KEY TEAM MEMBER PROJECT EXPERIENCE DATA SHEET

NAME Jesse WalkerTITLE Senior ArchaeologistFIRM AECOM

PROJECT TITLE LOCATION AND TOTAL CONSTRUCTION COST OR FEE	A/E OF RECORD FOR THIS REFERENCED PROJECT	SPECIFIC TYPE OF WORK EXPERIENCE (STUDY, SCHEMATIC, CONSTRUCTION ADMINISTRATION)	TEAM MEMBERS SPECIFIC ROLE OR TITLE ON THE REFERENCED PROJECT	DURATION OF TEAM MEMBER'S INVOLVEMENT OF THE REFERENCED PROJECT (IN MONTHS)	% OF TIME DURING DURATION BASED UPON A 40 HOUR WEEK	DATES OF THE TEAM MEMBER'S INVOLVEMENT IN THE REFERENCED PROJECT	CLIENT NAME CONTRACT PERSON AND PHONE NUMBER
Rebuild By Design Meadowlands Project, Bergen County, NJ (\$6,082, 634)	AECOM	Cultural Resource Survey	Cultural Resources Technical Lead	25 months	15%	August 2016 to July 2018	
Delaware & Raritan Canal Dredging Kingston Station (1862+00) and Amwell Road (2418+00), Somerset County, NJ (\$273,106)	Urban Dredging Consultants JV	Archaeological Survey and Archaeological Monitoring	Cultural Resources Technical Lead	40 month	5%	October 2015 to March 2019	
Lippincott Hill, Naval Weapons Station Earle, Colts Neck, NJ (\$146,725)	Not Applicable	Phase I Archaeological Survey	Senior Archaeologist/Proj ect Manager	25 months	10%	August 2016 to July 2018	
Deepwater/ Churchtown Retirements Project (\$272,000)	Unknown	Phase I/II/III Archaeological Survey	Senior Archaeologist/Proj ect Manager	37 months	20%	July 2015 to August 2018	

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KEY TEAM MEMBER PROJECT EXPERIENCE DATA SHEET

NAME John T. Duggan, Jr.TITLE Environmental PrincipalFIRM USA Environmental Management, Inc.

PROJECT TITLE LOCATION AND TOTAL CONSTRUCTION COST OR FEE	A/E OF RECORD FOR THIS REFERENCED PROJECT	SPECIFIC TYPE OF WORK EXPERIENCE (STUDY, SCHEMATIC, CONSTRUCTION ADMINISTRATION)	TEAM MEMBERS SPECIFIC ROLE OR TITLE ON THE REFERENCED PROJECT	DURATION OF TEAM MEMBER'S INVOLVEMENT OF THE REFERENCED PROJECT (IN MONTHS)	% OF TIME DURING DURATION BASED UPON A 40 HOUR WEEK	DATES OF THE TEAM MEMBER'S INVOLVEMENT IN THE REFERENCED PROJECT	CLIENT NAME CONTRACT PERSON AND PHONE NUMBER
Asbestos Sub-Consultant NJDEP Demolition Consultant Term Contract - Blue Acres Contracts up to \$50,000	URS / AECOM	Pre-Demolition Asbestos Assessment, Abatement Design & Administration	Environmental Principal-in-Charge	12+	Varies	2014-Present	
Agency Consultant Contract NJDPMC Environmental Projects Contracts up to \$15,000	USA Environmental Management, Inc.	HazMat Inspection, Design, Documents, Construction Administration	Environmental Principal-in-Charge	12+	Varies	2004-Present	
Agency Consultant Contract NJ Department of Corrections Environmental Projects Contracts up to \$15,000	USA Environmental Management, Inc.	HazMat Inspection, Design, Documents, Construction Administration	Environmental Principal-in-Charge	12+	20%	2017-Present	
Agency Consultant Contract NJ Department of Transportation Environmental Projects Contracts up to \$15,000	USA Environmental Management, Inc.	HazMat Inspection, Design, Documents, Construction Administration	Environmental Principal-in-Charge	9	Varies	2018-Present	
Agency Consultant Contract NJ Motor Vehicle Commission Environmental Projects Contracts up to \$15,000	USA Environmental Management, Inc.	HazMat Inspection, Design, Documents, Construction Administration	Environmental Principal-in-Charge	8	20%	2018-Present	
Agency Consultant Contract NJ Department of Env. Protection Environmental Projects Contracts up to \$15,000	USA Environmental Management, Inc.	HazMat Inspection, Design, Documents, Construction Administration	Environmental Principal-in-Charge	12+	20%	2006-Present	



KEY TEAM MEMBER PROJECT EXPERIENCE DATA SHEET

NAME William Weisgarber, Jr.

TITLE Program Manager

FIRM USA Environmental Management, Inc.

PROJECT TITLE LOCATION AND TOTAL CONSTRUCTION COST OR FEE	A/E OF RECORD FOR THIS REFERENCED PROJECT	SPECIFIC TYPE OF WORK EXPERIENCE (STUDY, SCHEMATIC, CONSTRUCTION ADMINISTRATION)	TEAM MEMBERS SPECIFIC ROLE OR TITLE ON THE REFERENCED PROJECT	DURATION OF TEAM MEMBER'S INVOLVEMENT OF THE REFERENCED PROJECT (IN MONTHS)	% OF TIME DURING DURATION BASED UPON A 40 HOUR WEEK	DATES OF THE TEAM MEMBER'S INVOLVEMENT IN THE REFERENCED PROJECT	CLIENT NAME CONTRACT PERSON AND PHONE NUMBER
Asbestos Sub-Consultant NJDEP Demolition Consultant Term Contract - Blue Acres Contracts up to \$50,000	URS / AECOM	Pre-Demolition Asbestos Assessment, Abatement Design & Administration	Program Manager	12+	20%	2014-Present	
Agency Consultant Contract NJDEPMC Environmental Projects Contracts up to \$15,000	USA Environmental Management, Inc.	HazMat Inspection, Design, Documents, Construction Administration	Program Manager	12+	Varies	2007-Present	
Agency Consultant Contract NJ Department of Corrections Environmental Projects Contracts up to \$15,000	USA Environmental Management, Inc.	HazMat Inspection, Design, Documents, Construction Administration	Program Manager	12+	20%	2017-Present	
Agency Consultant Contract NJ Department of Transportation Environmental Projects Contracts up to \$15,000	USA Environmental Management, Inc.	HazMat Inspection, Design, Documents, Construction Administration	Program Manager	9	20%	2018-Present	
Agency Consultant Contract NJ Motor Vehicle Commission Environmental Projects Contracts up to \$15,000	USA Environmental Management, Inc.	HazMat Inspection, Design, Documents, Construction Administration	Program Manager	8	20%	2018-Present	
Agency Consultant Contract NJ Department of Env. Protection Environmental Projects Contracts up to \$15,000	USA Environmental Management, Inc.	HazMat Inspection, Design, Documents, Construction Administration	Program Manager	12+	20%	2007-Present	

* A KEY TEAM MEMBER IS A TECHNICAL OR MANAGEMENT PERSON DEVOTING 20% OR MORE OF THEIR TIME TO ANY PHASE OF THE PROJECT



KEY TEAM MEMBER PROJECT EXPERIENCE DATA SHEET

NAME Mark Jenkins

TITLE Project Manager

FIRM USA Environmental Management, Inc.

PROJECT TITLE LOCATION AND TOTAL CONSTRUCTION COST OR FEE	A/E OF RECORD FOR THIS REFERENCED PROJECT	SPECIFIC TYPE OF WORK EXPERIENCE (STUDY, SCHEMATIC, CONSTRUCTION ADMINISTRATION)	TEAM MEMBERS SPECIFIC ROLE OR TITLE ON THE REFERENCED PROJECT	DURATION OF TEAM MEMBER'S INVOLVEMENT OF THE REFERENCED PROJECT (IN MONTHS)	% OF TIME DURING DURATION BASED UPON A 40 HOUR WEEK	DATES OF THE TEAM MEMBER'S INVOLVEMENT IN THE REFERENCED PROJECT	CLIENT NAME CONTRACT PERSON AND PHONE NUMBER
Asbestos Sub-Consultant NJDEP Demolition Consultant Term Contract - Blue Acres Contracts up to \$50,000	URS / AECOM	Pre-Demolition Asbestos Assessment, Abatement Design & Administration	Project Manager	12+	Varies	2014-Present	
Agency Consultant Contract NJDPMC Environmental Projects Contracts up to \$15,000	USA Environmental Management, Inc.	HazMat Inspection, Design, Documents, Construction Administration	Project Manager	12+	Varies	2004-Present	
Agency Consultant Contract NJ Department of Corrections Environmental Projects Contracts up to \$15,000	USA Environmental Management, Inc.	HazMat Inspection, Design, Documents, Construction Administration	Project Manager	12+	20%	2017-Present	
Agency Consultant Contract NJ Department of Transportation Environmental Projects Contracts up to \$15,000	USA Environmental Management, Inc.	HazMat Inspection, Design, Documents, Construction Administration	Project Manager	9	Varies	2018-Present	
Agency Consultant Contract NJ Motor Vehicle Commission Environmental Projects Contracts up to \$15,000	USA Environmental Management, Inc.	HazMat Inspection, Design, Documents, Construction Administration	Project Manager	8	20%	2018-Present	
Agency Consultant Contract NJ Department of Env. Protection Environmental Projects Contracts up to \$15,000	USA Environmental Management, Inc.	HazMat Inspection, Design, Documents, Construction Administration	Project Manager	12+	20%	2006-Present	

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KEY TEAM MEMBER PROJECT EXPERIENCE DATA SHEET

NAME Richard ReynoldsTITLE Senior Environmental Technician/EngineerFIRM USA Environmental Management, Inc.

PROJECT TITLE LOCATION AND TOTAL CONSTRUCTION COST OR FEE	A/E OF RECORD FOR THIS REFERENCED PROJECT	SPECIFIC TYPE OF WORK EXPERIENCE (STUDY, SCHEMATIC, CONSTRUCTION ADMINISTRATION)	TEAM MEMBERS SPECIFIC ROLE OR TITLE ON THE REFERENCED PROJECT	DURATION OF TEAM MEMBER'S INVOLVEMENT OF THE REFERENCED PROJECT (IN MONTHS)	% OF TIME DURING DURATION BASED UPON A 40 HOUR WEEK	DATES OF THE TEAM MEMBER'S INVOLVEMENT IN THE REFERENCED PROJECT	CLIENT NAME CONTRACT PERSON AND PHONE NUMBER
Asbestos Sub-Consultant NJDEP Demolition Consultant Term Contract - Blue Acres Contracts up to \$50,000	URS / AECOM	Pre-Demolition Asbestos Assessment, Abatement Design & Administration	Senior Environmental Technician/Engineer	12+	20%	2014-Present	
Agency Consultant Contract NJDPMC Environmental Projects Contracts up to \$15,000	USA Environmental Management, Inc.	HazMat Inspection, Design, Documents, Construction Administration	Senior Environmental Technician/Engineer	12+	Varies	2014-Present	
Agency Consultant Contract NJ Department of Corrections Environmental Projects Contracts up to \$15,000	USA Environmental Management, Inc.	HazMat Inspection, Design, Documents, Construction Administration	Senior Environmental Technician/Engineer	12+	20%	2017-Present	
Agency Consultant Contract NJ Department of Transportation Environmental Projects Contracts up to \$15,000	USA Environmental Management, Inc.	HazMat Inspection, Design, Documents, Construction Administration	Senior Environmental Technician/Engineer	9	20%	2018-Present	
Agency Consultant Contract NJ Motor Vehicle Commission Environmental Projects Contracts up to \$15,000	USA Environmental Management, Inc.	HazMat Inspection, Design, Documents, Construction Administration	Senior Environmental Technician/Engineer	8	Varies	2018-Present	
Agency Consultant Contract NJ Department of Env. Protection Environmental Projects Contracts up to \$15,000	USA Environmental Management, Inc.	HazMat Inspection, Design, Documents, Construction Administration	Senior Environmental Technician/Engineer	12+	20%	2014-Present	

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KEY TEAM MEMBER PROJECT EXPERIENCE DATA SHEET

NAME Wayne K. Martin

TITLE Environmental Technician/Engineer

FIRM USA Environmental Management, Inc.

PROJECT TITLE LOCATION AND TOTAL CONSTRUCTION COST OR FEE	AGE OF RECORD FOR THIS REFERENCED PROJECT	SPECIFIC TYPE OF WORK EXPERIENCE (STUDY, SCHEMATIC, CONSTRUCTION ADMINISTRATION)	TEAM MEMBERS SPECIFIC ROLE OR TITLE ON THE REFERENCED PROJECT	DURATION OF TEAM MEMBER'S INVOLVEMENT OF THE REFERENCED PROJECT (IN MONTHS)	% OF TIME DURING DURATION BASED UPON A 40 HOUR WEEK	DATES OF THE TEAM MEMBER'S INVOLVEMENT IN THE REFERENCED PROJECT	CLIENT NAME CONTRACT PERSON AND PHONE NUMBER
Asbestos Sub-Consultant NJDEP Demolition Consultant Term Contract - Blue Acres Contracts up to \$50,000	URS / AECOM	Pre-Demolition Asbestos Assessment, Abatement Design & Administration	Environmental Technician	12+	20%	2014-Present	
Agency Consultant Contract NJDEPMC Environmental Projects Contracts up to \$15,000	USA Environmental Management, Inc.	HazMat Inspection, Design, Documents, Construction Administration	Environmental Technician	12+	20%	2013-Present	
Agency Consultant Contract NJ Department of Corrections Environmental Projects Contracts up to \$15,000	USA Environmental Management, Inc.	HazMat Inspection, Design, Documents, Construction Administration	Environmental Technician	12+	Varies	2017-Present	
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KEY TEAM MEMBER PROJECT EXPERIENCE DATA SHEET

NAME Mathieu Chapuis

TITLE Environmental Technician

FIRM USA Environmental Management, Inc.

PROJECT TITLE LOCATION AND TOTAL CONSTRUCTION COST OR FEE	A/E OF RECORD FOR THIS REFERENCED PROJECT	SPECIFIC TYPE OF WORK EXPERIENCE (STUDY, SCHEMATIC, CONSTRUCTION ADMINISTRATION)	TEAM MEMBERS SPECIFIC ROLE OR TITLE ON THE REFERENCED PROJECT	DURATION OF TEAM MEMBER'S INVOLVEMENT OF THE REFERENCED PROJECT (IN MONTHS)	% OF TIME DURING DURATION BASED UPON A 40 HOUR WEEK	DATES OF THE TEAM MEMBER'S INVOLVEMENT IN THE REFERENCED PROJECT	CLIENT NAME CONTRACT PERSON AND PHONE NUMBER
Asbestos Sub-Consultant NJDEP Demolition Consultant Term Contract - Blue Acres Contracts up to \$50,000	URS / AECOM	Pre-Demolition Asbestos Assessment, Abatement Design & Administration	Environmental Technician	6	20%	2018-Present	
Agency Consultant Contract NJDPMC Environmental Projects Contracts up to \$15,000	USA Environmental Management, Inc.	HazMat Inspection, Design, Documents, Construction Administration	Environmental Technician	6	20%	2018-Present	
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03

Project Approach to Services on a Typical Project Assignment

03. Project Approach to Services on a Typical Project Assignment

Project Understanding

AECOM understands that DPMC wishes to contract with Consultant firms that can provide demolition and/or site remediation and restoration design and construction administration services for the DEP Sandy Blue Acres Acquisition Program and other statewide demolition projects as necessary. These consulting services may be used to develop preliminary surveys, assessments, scopes of work and/or design documents and specifications for the demolition, proper disposal and disposition of buildings and structures on designated properties. The services will include disconnecting all utilities, the closing of all wells, pumping and filling of all septic systems/cesspools, removal and testing of above ground and underground storage tanks, and removal of hazardous materials from the properties and site restoration. The Consultant firm will be responsible for preparing the necessary design/bid documents to be advertised for bid to DPMC classified construction contractors and providing permit coordination, bidding support and construction administration services. The Consultants' assignments may include, but will not necessarily be limited to, the following tasks:

- Preliminary Site Investigations
- Project Scoping Documents
- Preparation of Designs and Bid Specifications
- Develop Specifications for Proper Removal and Disposal of Hazardous Materials
- Develop Specifications for Site Remediation (if necessary) and Restoration After Demolition
- Compliance with all Environmental Statutes and Regulations
- Project Outreach Participation
- Coordination with Federal, State and/or Local Officials
- Quality Control/Assurance
- Bid Support Services
- Construction Administration and Oversight

Furthermore, AECOM understands that the work under this contract may be funded and or reimbursed in whole or in part by FEMA and/or by the U.S. Department of Housing and Urban Development (HUD) through the New Jersey Department of Community Affairs (NJDCOA). Additionally, other federal programs (HUD-CDBG, USDA, etc.) or State programs (GSPT dedicated funds or other State sources) may also participate in funding or reimbursing the State for services or work under this contract. DPMC is, therefore, seeking a consultant with extensive experience with FEMA and HUD requirements, as well as those other federal and/or state programs, to ensure that all applicable performance standards of these Programs are followed in their specifications or deliverables.

From the project perspective, AECOM anticipates that the DPMC desires to have a Consultant with the ability to understand the project requirements and experience to develop the overall management process needed to allocate the necessary technical resources. Our understanding is that there could be as much as 1,300 properties owned by the DPMC requiring demolition of those structures in compliance with applicable plan approvals, permits and regulations as well as safe practices. The structures to be demolished will consist, for the most part, of single family residences. Commercial and/or industrial building structures are not anticipated to be part of this contract.

Potential Challenges

We have identified for this project a number of key challenges that may affect the performance of the project; and have developed effective mitigation measures based on our experience with similar programs. Provided below is a summary of program challenges and mitigation measures to support program success.

Challenge	Mitigation Measure
<p>Maintaining/Meeting the Schedule</p> <p>Federal funding requirements include a very tight schedule (90 days) to complete the demolition on a property. If the schedule is not met the funding may not be provided. Major factors that could impact the schedule include:</p> <ul style="list-style-type: none"> - Staffing - Permitting Process - Stakeholders/General Public interactions - Unforeseen conditions 	<p>AECOM has managed staffing scale up for similar programs by bringing in an experienced core management team including field task managers that know how to effectively coordinate and engage hundreds of employees from multiple offices for seamless and timely project execution.</p> <p>In addition, the AECOM team will identify all needed permits early on in the planning phase and begin processing as soon as practicable. AECOM' extensive experience with local, state and federal permitting will mitigate this factor.</p> <p>Also, the AECOM Management Team will train all field staff in the proper protocol for interaction with stakeholders and the public if they are approached by any of these parties during their field visits.</p> <p>Finally, AECOM will include a "what if" section within the specifications outlining a specific procedure for the Awarded Contractor to follow if unforeseen conditions arise.</p>
<p>Contaminated Structures</p> <p>AECOM anticipates that a large number of homes to be demolished under this program will likely have been constructed before 1978 and contain lead based paint. Pursuant to HUD requirements, lead based paint risks must be identified and addressed. Other types of contamination could also be present. The presence of contaminated structures could have a significant impact on cost and schedule.</p>	<p>AECOM, in consultation with DPMC and NJDEP, will develop a plan governing how lead based paint will be identified and addressed prior to program deployment.</p> <p>The AECOM Team has more than 20 in-house certified inspectors available.</p> <p>In addition, AECOM' extensive experience in the environmental field will allow us to address this challenge effectively. The AECOM team will identify in the Site Investigation phase the presence and extent of contamination. A remedial plan will be developed and incorporated into the plans and specifications. Implementation of the plan will be closely monitored during the construction oversight phase by assigning inspectors to these special cases with a mix of environmental and construction management experience.</p>
<p>Ineffective Awarded Contractors</p> <p>Ineffective contractors can pose a serious risk to the execution of the project and impact such factors as cost, schedule, and health and safety.</p>	<p>AECOM will systematically monitor performance so that problems are identified early, corrective actions are taken to remove nonperforming contractors, and less experienced contractors are supported to develop the capabilities needed to be successful.</p>

A. PROCEDURES

Management

Timely and successful Program and Work Order completion will require ongoing coordination among DPMC and other applicable state agencies and stakeholders, the AECOM Program Manager, the AECOM Project/Work Order Managers and the technical resources assigned to direct each aspect of a Work Order.

Upon contract award it is anticipated that the AECOM Principal-in-Charge and the AECOM Program Manager will meet with DPMC and other participants in an internal "kick-off" meeting to discuss specific program management related items, such as reporting chains, document controls, guideline and specification standards, abbreviated Scope of Services, budgets, deliverable schedules and Quality Management requirements. Subsequently, DPMC can start issuing individual Work Orders. This process will consist of:

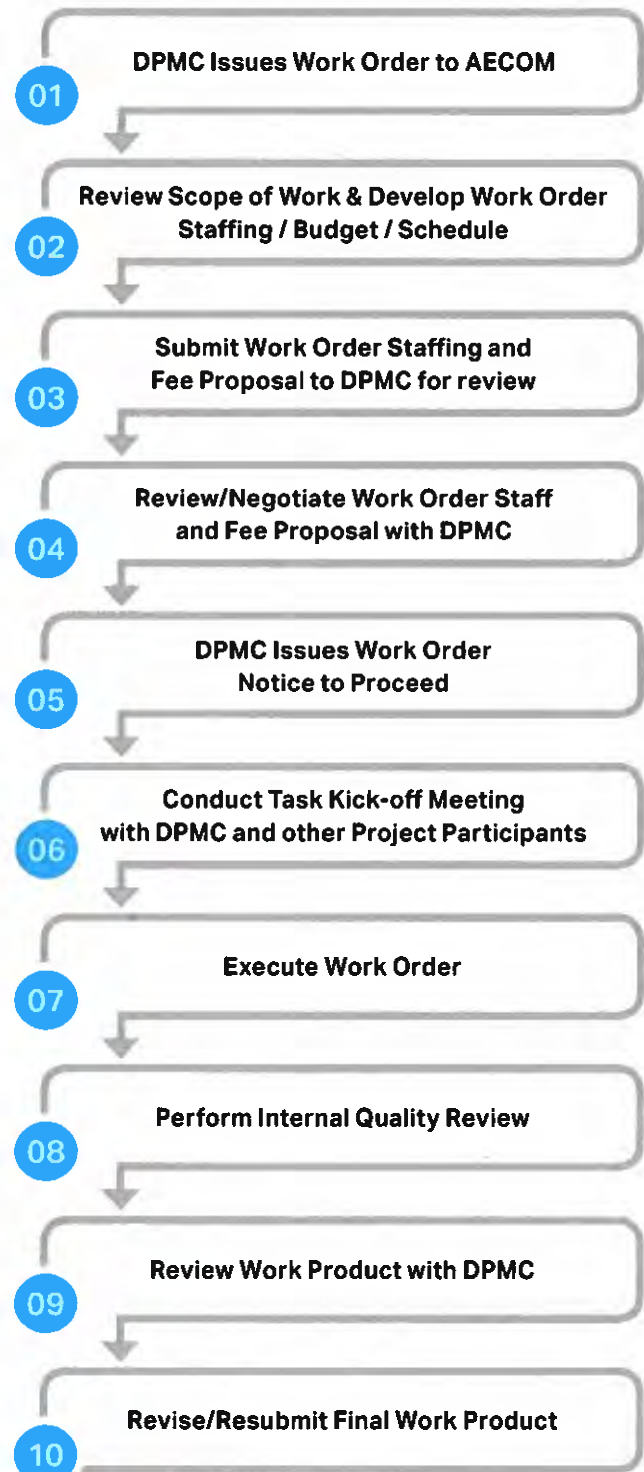
Work Order Assignment

Each Work Order issued by DPMC will be received by the Program Manager, who will meet with the Project/Work Order Managers; assign a Project/Work Order Manager, who will be the most competent individual available and who will report to the Program Manager; and identify other technical resources as needed. The Project/Work Order Manager will act in a technical capacity as well as a management capacity for the Work Order and will be directly responsible to the Program Manager for all matters relating to technical, cost and schedule performance.

The Project/Work Order Manager will consider the need to use local specialty sub-consultants, such as environmental drilling to meet the needs of the Work Order.

The Project/Work Order Manager will complete the Work Order proposal outlining the scope of work, staffing, budget and schedule for the Work Order. The proposal may include costs and supporting information from proposed sub-consultants. The Program Manager will review the proposal before its submission to DPMC. The Program Manager will discuss the proposal with DPMC as necessary to reach a mutually agreeable position. Upon acceptance of our proposal, DPMC will approve Work Orders and issue a Notice to Proceed (NTP).

Key Steps in Typical Work Order Execution



Individual Work Order Management and Execution

Upon receipt of the NTP, the Project/Work Order Manager will conduct a kick-off meeting with DPMC and other members of the technical team to discuss the Work Order assignment. Such a meeting is useful in further determining specific requirements of the assignment, identifying available data, and assessing explicit concerns that may not have been described in full detail in the initial scope of work related to the assignment.

The Project/Work Order Manager will report weekly, or more frequently as necessary, to the Program Manager, to review performance and to suggest any changes deemed necessary. Project status and any changes can then be discussed by the project team during weekly telephone calls and, if deemed appropriate by the PIC, and with the applicable DPMC Point of Contact. If changes require additional resources beyond the dedicated team, the Program Manager will be consulted to bring corporate resources to bear on the issue.

Throughout the duration of each Work Order, the Program Manager and the Project/Work Order Manager will be responsible for final product quality within the contractual time and budget requirements. Using our computerized cost and control system, the Project/Work Order Manager will have access to a weekly breakdown of current and cumulative costs and labor by AECOM by category (direct labor), travel and other direct costs - a proven vehicle for maintaining project control.

A standardized delivery order format will be developed in collaboration with DPMC at the inception of the project to ensure consistency and completeness. These formats will cover technical, administrative, logistic and other procedural matters, and will be disseminated to each project management team involved in this contract. These formats will be updated by AECOM as part of our continuous improvement program and as agreed to by DPMC.

Deliverables will be submitted to DPMC only after detailed checking and Internal Independent Technical Review in accordance with the AECOM QC program. Note that the AECOM-assigned Quality Control Manager, Dr. Majed Khoury, PE, PhD will routinely conduct Quality Assurance Audits, to assure adherence to the Quality Control Plan procedures.

The final step of each Work Order is the team's demobilization and debriefing. Each debriefing will consist of two parts:

- First, DPMC and the AECOM Team staff will hold a debriefing. Frank and open discussions will be held

with the entire team, and suggestions will be made as to where and how team performance could have been improved and initial submissions strengthened. These debriefings should help determine if Work Order requirements were met. If not, the debriefing will be a mechanism to sharpen the team's skills and DPMC interaction and help AECOM better understand the State's requirements for future delivery orders as part of our continual improvement process.

- The second stage of a debriefing will take place between the DPMC Manager and the AECOM Quality Control Manager. Again, the purpose of this debriefing will be to improve future assignments. We have found that clients are often more open and frank with regard to their likes and dislikes of how the Work Order was accomplished when speaking to the QC Director, who is outside of the project production Team. We will use feedback from these sessions to improve our performance on future assignments.

Work Order Cost Management

As a public company, AECOM places strong emphasis on tracking cost, schedule and performance metrics on a weekly/monthly schedule. AECOM's cost management system is built upon a cohesive set of tools, with all data centralized in one database, guaranteeing the seamless integration of cost information from time-card entries through reports and invoices. It ensures our project managers and customers have consistent, accurate, and timely accounting, reporting, invoicing, and other information at their fingertips. These tools are used today on numerous programs throughout AECOM, providing the backbone of our DCAA-approved cost accounting system.

All AECOM offices use the same accounting system, ePM, which is a fully integrated financial management solution with built-in applications providing powerful project and organizational accounting features, including general ledger, accounts payable, accounts receivable, purchasing (including subcontractor purchase orders), fixed assets, travel, timesheets, payroll, human resources, and materials management. AECOM managers use the system on a weekly basis to track financial performance and to make monthly financial projections of "estimated costs at completion" (EACs). If the EAC shows projections above prescribed variances in budget, corrective actions are taken.

Using our Work Order schedule and data from ePM, the AECOM Team collects and reports performance data monthly (or more frequently, if required) against baselines that are established during the planning phase of each Work Order. When actual costs differ from those planned in excess of Work Order-established allowable variances, the Program and

Project Manager and Technical Leads develop a corrective action plan to bring cost back in line with expectations.

For sub-consultants, the schedule is monitored on a weekly basis and costs are measured by a progress report each month (built from the individual company's standard accounting system and practices) that accompanies their invoice. AECOM reviews and approves the progress prior to invoicing DPMC.

Work Order Schedule Management

AECOM will use MS Project to develop and track schedules. The Program Manager will monitor a master schedule with a roll-up of individual Work Order schedules. The Project/Work Order managers will be responsible for entering the planned schedule into MS Project. AECOM has found that a detailed MS Project schedule that splits the work structure into smaller elements is a more effective tool for managing Work Order schedules.

Project Outreach

Project outreach can be conducted in a number of different ways depending on the program end goals. Perhaps the most broad scale approach is general outreach, whereby media announcements, public notices, public meetings, and Web site information is provided to the general public. The most direct approach is targeted outreach, where certain areas are targeted for a door-to-door campaign as deemed necessary. The needs assessment can feed the overall direction of the outreach program and best determine the balance of general and targeted outreach to reach potentially impacted stakeholders.

Coordination with Federal, State and/or Local Officials

AECOM will assist DPMC by providing technical support and document presentations that would be used in presentations representing DPMC at public and regulatory meetings. AECOM has extensive experience in representing our clients' interests in negotiations with the NJDEP, EPA and other regulatory agencies in support of clients conducting remediation activities. Besides having extensive accumulated experience, we are well respected among the regulatory community with a reputation of producing high quality, technically defensible reports. As a result of our many years of working on investigations and remediations in New Jersey, we are very familiar and comfortable with all aspects of interfacing and working with the regulatory agencies.

Continual Improvement

An important part of a performance-based organization is continual improvement, and the use of the Plan, Do, Check, Improve concept. The AECOM Team continually reviews lessons learned and then develops and updates standard operating procedures. AECOM's continued investment in technology upgrades to improve internal processes and employee training and development is also an important part of continual improvement. The result of continual improvement is higher quality and lower costs.

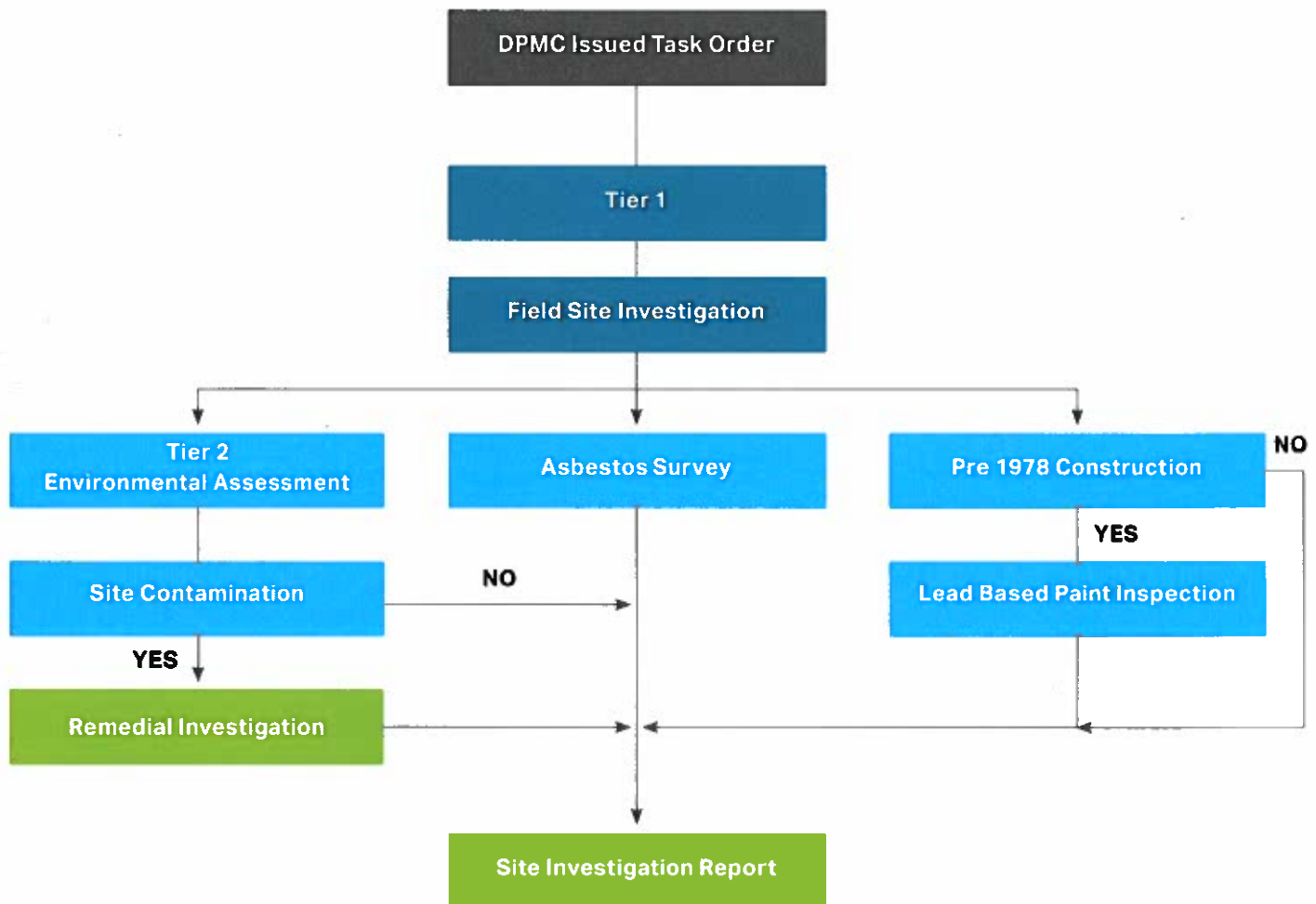
We believe that our straightforward organizational structure and clearly delineated responsibilities will yield maximum value to DPMC. We have a strong commitment and dedication to ensuring our projects are successful, and feel that our proposal, in combination with our clear-cut management staffing plan for conducting Work Order assignments, demonstrate our ability to perform these services in an effective manner.

Technical Approach

AECOM has developed the technical approach described below to meet the requirements outlined in the scope of work of the RFP and based on past experience with similar projects. This approach consists of a phased approach to implementation, effectively categorizing the program into phases and functional areas. Each functional area of the program is distinctive and operations are conducted concurrently to rapidly push through the process with minimal delays. Our proposed approach includes the following phases:

- Phase 1: Site Investigation and Planning
- Phase 2: Design/Permitting and Bid Packages
- Phase 3: Construction Administration and Oversight

Phase 1: Site Investigation and Planning



This Phase consists of conducting a Site Investigation of each property included in each individual Work Order to mainly identify those areas where unacceptable environmental conditions are present as a result of past practices.

Our approach to the Preliminary Site Investigations Phase of this program is a comprehensive plan drawn from a process developed and implemented on previous HUD CDBG-DR programs identical in nature to this program. Our approach was implemented with great success, resulting in a cost effective process producing a product that is both timely and meets all HUD Environmental Review Record (ERR) requirements. Our environmental review process provides rapid and accurate review results quickly and cost effectively.

The conditions identified in the Tier 1 Broad Review are organized into individual Environmental Review Topics in accordance with 24 CFR Parts 35, 51, and 58, as well as

Section 106 Historic Preservation requirements. Based on the Tier 1 Broad Review outcome, a Tier 2 Level Review Site Specific Checklist (SSC) is developed to guide the reviewers through the environmental review process for individual project sites.

The SSC is designed to collect site-specific environmental information about a project site to be used in conjunction with other environmental databases to determine potential environmental impacts as they relate to the NEPA process. Part of this initial inspection includes capturing information to answer any questions and observations as they relate to other site specific conditions including environmental hazards, safety hazards, and GPS location. Any safety or environmental exposures should also be captured.

Environmental Review Specialists will conduct a Step 1 Desktop Review of each site utilizing the Tier 2 SSC as a guide. Should a particular site require a more detailed review, or a Step 2 Site Visit is authorized and professionals with the required specialty skills are dispatched to conduct further assessments. Step 2 assessments are designed to confirm our environmental position on the project. In our experience, potential areas for in depth reviews that require agency coordination include architectural history, archaeology, wetlands, threatened and endangered species, and asbestos/ lead based paint. Our approach for the analysis and mitigation for asbestos and lead based paint includes inspection, identification, and reports generated by certified professionals.

AECOM recommends a hazardous material survey to include asbestos and lead based inspections to be conducted as part of the Tier 2 Level review.

Asbestos Containing Materials (ACM), and Lead-Based Paint Investigation

The AECOM Team may be asked to perform asbestos, lead-based paint, PCB investigations for all suspected materials and systems as warranted. For ACM and LBP surveys AECOM shall work with our subconsultant, USAEMI, to provide adequate sampling and analysis on: (i) suspect ACM (friable and non-friable and non-friable organically-bound) within each individual building and affected site area, such as interior and exterior pipe/duct insulations, equipment and boiler insulations, fire brick, AC units, plaster materials, floor and ceiling tiles, mastics/glues, roofing materials, glazing caulks, wire wrap, fireproofing, and (ii) suspected LBP, such as floor/wall/ceiling/equipment including windows, door and trims housing painted materials using X-ray fluorescence (XRF) spectroscopy. Also for demolition debris AECOM, along with USAEMI, will ensure that all required sampling and analysis procedures for determining the Total Lead Concentration and TCLP of all suspected LBP materials for disposal. Adequate number of individual and bulk analyses to accomplish this task will be performed in compliance with all applicable regulatory and code requirements, including applicable provisions of N.J.A.C. 7:26E. USAEMI will identify the appropriate investigation, testing, and abatement methodology, which must include sampling for ACM. Transmission electron microscopy (TEM) analytical techniques are required for non-friable organically bound materials found to contain less than 1 % asbestos fiber using polarized light microscopy methods (PLM).

ACM and LBP Report

USAEMI will provide an ACM and LBP Inventory Report, with appropriate exhibits, in the site investigation report. Each individual building shall be itemized separately in the Report. The Report will summarize all work accomplished, and shall include: (i) all laboratory data, (ii) sketch plans identifying the location of all samples obtained, (iii) summary tables identifying all analytical results, including, but not limited to, detection and friability levels of all ACM/non-ACM, concentrations of Total Lead, and TCLP analyses for disposal, and (iv) a comparison of all such levels/ concentrations to residential action levels as determined by NJDEP and the United States Environmental Protection Agency (USEPA).

Additional Site Investigations (SI) and Remedial Investigation (RI)

Based on the results of the Tier 2 review some of the sites may require additional environmental services to include Phase II site investigations and remedial investigations. Under this task, AECOM will conduct all required activities as per the approved Phase II work as defined in the final Phase I report for a particular site. During the Phase II Site Investigation, a limited number of waste and environmental media samples are taken to allow for the determination of the absence or presence of the suspected environmental condition. After confirming the presence of contamination in the Site Investigation phase, a Remedial Investigation is conducted. The Remedial Investigation may need to be a more extensive sampling program designed to determine the nature and extent of contamination. AECOM environmental professionals include several New Jersey Licensed Site Remediation Professionals (LSRPs) available to support the projects.

The SI and RI phases could include the following, as required based on the site conditions:

- soil borings
- surface and subsurface soil sampling;
- groundwater well installation
- groundwater sampling;
- sampling of any other potentially impacted media
- evaluation of groundwater flow;
- evaluation of risks and potential impacts
- preparation of investigation reports.

During the site investigation phase, AECOM will use a variety of tools to locate and identify potential jurisdictional wetlands. AECOM has a dedicated Wetlands/Ecological staff that has been providing wetlands and ecological work for decades throughout the State of NJ. Our staff has the necessary experience and licenses to complete this work. In addition, AECOM will conduct a utility investigation analysis based on the results of surveying activities and interviews with point of contact personnel for each utility company.

Phase 2: Design/Permitting and Bid Packages

This phase consists of the development of plans and specifications for each individual demolition project included in the Work Order assignment and will include Plans and Specifications, Environmental Compliance and Permit Coordination. This phase is paramount to ensure all contractors are bidding the same project requirements and DPMC is getting the best value for their expenditures. *Refer to Phase 2 Flow Chart on the following page.*

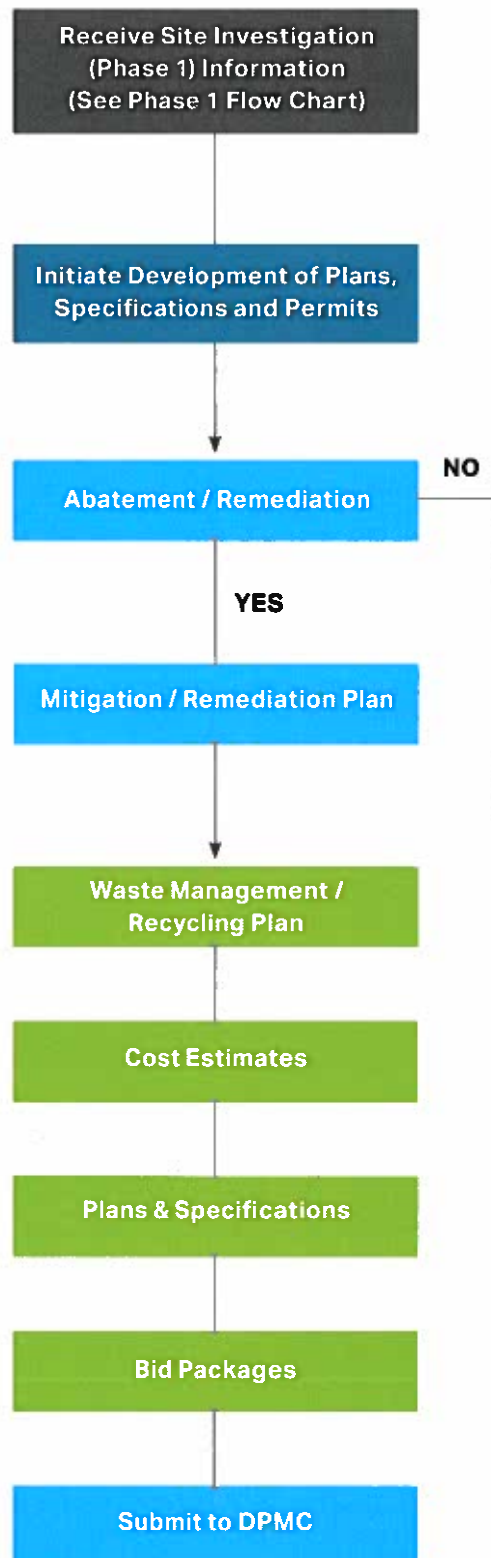
Plans and Specifications

The AECOM Team will develop a series of standardized protocols, plans and specifications for use throughout the project to achieve the program needs. It is improbable that the standardized plans and specifications will uniformly apply to every location, but they will represent an 80% solution that can be adapted to unique or challenging sites. The remaining 20% will require some customization to meet the site conditions.

It is likely that many of properties will be in a variety of incorporated and unincorporated areas of the State, each with its own unique building codes and zoning ordinances. It is essential to organize and have a thorough understanding of these different codes and ordinances and the constraints they place on the design process. The AECOM Design Team can, if necessary, prepare a building code and ordinance matrix by researching the local requirements and meeting with local building officials to develop rapport and begin the relationship building process that will be very important throughout the program duration.

Architects/Engineers will conduct site visits as needed to develop site specific drawings in accordance with standardized protocols. Existing land surveys will be reviewed if available. If they are not available, AECOM will work with the client to obtain new land surveys. Designers will also utilize automated design software to expedite drawings.

Design/Permitting and Bid Packages:



AECOM will also provide cost estimates for demolition, including any related hazardous materials abatement required. The cost estimates will provide a detail breakdown of the estimated demolition cost for each individual structure within the Work Order.

The end result will be a set of standardized plans (drawings) and specifications that clearly outline the proposed scope of work and demolition estimated costs for each structure, including specialized instructions, for use in the bidding process. Specialty design details, like the presence of asbestos or architectural antiques stemming from the site investigation, will be called out in the design documents to ensure the Awarded Contractor understands the abatement or mitigation requirements.

Environmental Compliance

All the work associated with demolition, including disposal of demolition related waste material, must be conducted in accordance with all applicable local, State, and Federal regulations, including those of the New Jersey Department of Labor and Workforce Development (NJDOLEWD), the NJDEP, the Environmental Protection Agency (EPA), the National Emission Standards for Hazard Air Pollutants (NESHAP), and the Occupational Safety and Health Administration (OSHA). Under this task, AECOM will assist DPMC in the interpretation and implementation of current environmental regulations and guidelines. AECOM has a core staff focused on monitoring the myriad of regulatory programs in New Jersey, as well as Federal legislation. We also subscribe to several regulatory monitoring publications and are members of numerous professional associations active in legislative monitoring. AECOM shall prepare all plans and specifications, to ensure that all related demolition work is accomplished in accordance with all local, State and Federal regulatory requirements. This could include:

- Properly remove, handle, and dispose of any ACM.
- Properly manage and dispose of lead-based paint debris (regulated by NJDEP).
- Properly dispose of any and all unregulated solid and hazardous waste, including but not limited to household chemicals, consumer packaged pesticides, oils, paints, or other related items found on the project site.
- Properly management of archaeological and historical preservation areas and/or structures.
- Storm water management and soil erosion and sediment control.
- Site remediation and restoration.

- Removal of above-ground oil tanks. (AECOM assumes that Underground Storage Tanks (USTs) should not be present as these should have been removed/remediated by the original property owner prior to the transfer of title to NJDEP.) However, if a UST is identified during the Site Investigation Phase, then provisions for the UST removal, follow-up investigation and LSRP participation will be incorporated in the plans and specifications.

Where necessary, AECOM shall include in the plans and specifications documents any required asbestos, lead, PCB or other hazardous material abatement details, including all ACM and LBP Inventory Reports and PCB Reports. For abatement design support services, AECOM has teamed with USA Environmental, Inc., a New Jersey certified asbestos safety control monitoring firm with extensive experience with DPMC throughout the state.

In the event that historic structures are slated for demolition and regulatory conditions are placed on DPMC by the NJDEP, those conditions shall be incorporated into the plans and specifications.

Site remediation and restoration work shall include, but not be limited to, earthwork and backfilling; sidewalk, pavement, and curb restoration; required utility restorations; perimeter fencing; soil erosion and sediment control measures, vector control, and lawn establishment and stabilization.

With regards to waste management and disposal, AECOM proposes to develop a "Beneficial Reuse" or recycling plan as part of the overall approach. Many materials from the structures can be recycled cost effectively or transformed to other usable materials to benefit the community. Of particular interest is the concrete and steel from slab constructed structures. With landfill space at a premium across New Jersey and disposal fees based on the tonnage of the debris dumped, recycling the concrete and steel could be of financial benefit to DPMC by reducing tipping fees and benefit the local communities should they want the aggregate. The AECOM Team will develop the scope, costs and technical approach to maximizing the beneficial reuse of salvageable materials. AECOM is uniquely qualified to perform this task having been managing construction waste for over 200 PSE&G construction projects throughout New Jersey for the last 2.5 years and, as such, having assisted PSEG in meeting their 100% recycling goal.

In addition, the AECOM team proposes to conduct a cycle analysis study to determine the efficient and effective transportation paths to local area disposal sites. The benefit of this study is to provide contractors with routes and time periods that will limit traffic congestion and wait times as well as designate specific routes for transportation

of hazardous materials like asbestos. The net effect will provide the opportunity to reduce the overall transportation costs and have route monitoring to ensure a safe and environmentally secure disposal of construction debris.

Permit Coordination

This task will consist of preparing construction and environmental permits necessary for the demolition, removal and disposal of all structures on the property and for the restoration of the site to a natural state. AECOM will fill out the permits, including all required information and the name of the Awarded Contractor of record, and will submit to DPMC Plan & Code Review Unit who will process the permits with NJDCA.

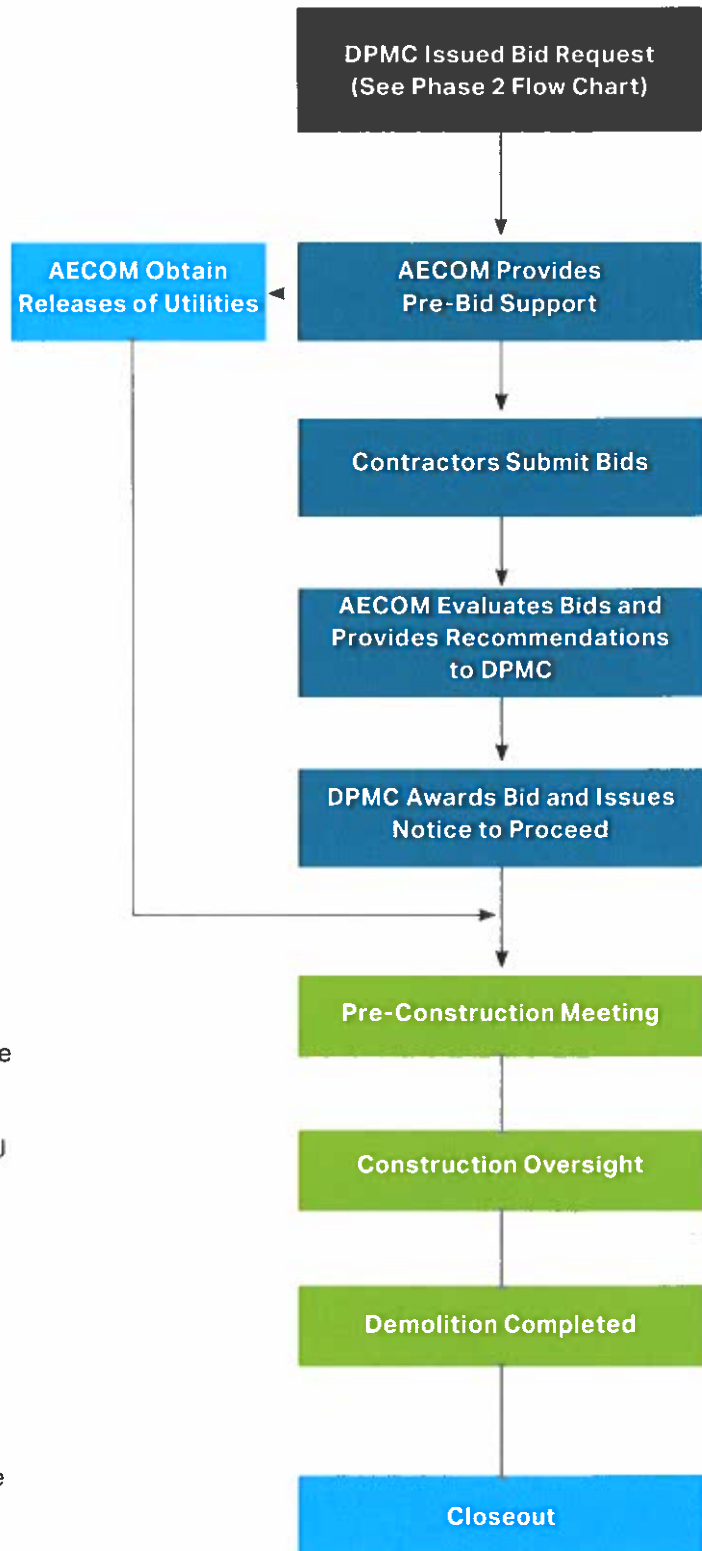
Upon receiving the NTP on each Work Order, the AECOM regulatory staff will evaluate the project to determine the applicable permits and other regulatory requirements. Once the applicable permits and requirements have been determined, a plan will be developed to secure the permits and ensure compliance with regulatory requirements in a timely and cost effective manner. AECOM's significant experience in dealing with regulators from the NJDEP, will enable us to facilitate permit application submittals, as we have done on dozens of similar comprehensive projects.

AECOM has extensive experience understanding the permitting requirements as well as preparation of permit applications. Over the past 30 years, AECOM has prepared applications and obtained thousands of permits for its clients. We have recently worked on two major transportation projects (Toms River Bypass Bridge and Newark Elizabeth Light Rail) that required Army Corps Section 10 and Section 404 Permits, Coast Guard Bridge Permits, NJDEP Individual Freshwater Wetland Permits, NJDEP Coastal Area Facility Review Act and Waterfront Development Permits as well as NJDEP Stream Encroachment Permits. Our Ecological Management Group provides "one-stop" permit management from the earliest stages of design through approval of the permits. Our complete knowledge of the regulatory system and familiarity with the regulators provides our client's with the ability to streamline environmental permitting of all types of projects throughout NJ and the East Coast.

Phase 3: Construction Administration and Oversight

The final phase of the overall program management process is performing the actual demolition. This phase, which comprises the construction oversight and begins at the completion of the plans and specifications, will require a series of well managed tasks that require interface with DPMC and the Awarded Contractor, including: Bid Support and Pre- Construction Assistance; Construction

Management; and Project Closeouts. The AECOM Construction Administration and Oversight Team provides the oversight, technical resources, decision-making, and management of the Awarded Contractors during this phase.



During this phase, the AECOM Team will be responsible for ensuring that the Awarded Contractor receives the scope of services plan; obtains appropriate local permits and receives releases from utility providers; demolishes all improvements on the property; removes and properly disposes of all debris at appropriate locations after paying required fees; restores the natural grade of the property and seeds the new top soil.

Bid Support and Pre-Construction Assistance

This task consists of activities associated with the bidding and contract negotiation process. AECOM understands that the demolition contracts will be advertised for bid by DPMC based on the plans and specifications provided by the selected consultant, and awarded to the lowest responsible bidder. Having prepared the plans and specifications, during this selection process AECOM will attend any pre-proposal meetings, respond to questions from bidders, review the bids received, including the apparent lowest responsible bidder, and provide a Recommendation of Award to the DPMC Project Manager.

AECOM recommends implementation of a bid process that begins with bid package development based on the most feasible, acceptable and suitable packaging of project sites on a geographic basis. The package should be large enough to encourage local competition with competitive bids, yet of a size that it is not too large for a single contractor to handle. AECOM will assist DPMC with contract negotiations as needed. In addition, AECOM's corporate legal staff is available to conduct a Risk Analysis of the contract language and make recommendations to DPMC for strengthening of your position.

Following the bid award AECOM will assist during pre-construction activities with the following:

- AECOM will notify and obtain the written release of all utilities having service connections within the structure, such as water, electric, gas, sewer, cable television, and other connections.
- AECOM will attend and assist DPMC and NJDEP in conducting the pre-construction meeting with the Awarded Contractor to familiarize them with the following items:
 - o The interrelationship between DPMC, the AECOM Team, the Awarded Contractor and its subcontractors, and other agencies and/or public or private entities.
 - o The Project Control and Scheduling system established for the project.
 - o The basis for reporting, preparing and processing progress payments and monitoring continuous coordination of construction activities.
 - o DPMC procedures which the Awarded Contractor is to follow during the course of their contract.
 - o EHS requirements.

Construction Management

This task comprises the construction oversight during actual demolition activities. In order to ensure the Awarded Contractors are making satisfactory progress, the AECOM Team has an inspection protocol, quality assurance processes, and standardized inspections procedures developed specifically for HUD CDBG programs. AECOM will provide the inspection milestone requirements to the contractors during the pre-construction meeting so each participant will have clear direction and understanding of the inspection process, quality standards, and the expectations of the inspectors. Other inspections also occur during the demolition phase to monitor the abatement and disposal of environmental hazards including lead based paint and asbestos.

The AECOM Team understands that the use of public funding for this project instills a responsibility to strictly monitor all demolition work and ensure that all expectations are met. Our approach will be to embed inspectors with each demolition crew and require that documentation be collected and be integrated into the project file on each property on a weekly basis. All Inspectors will report to the Project/Work Order Manager who will ensure that sufficient Inspectors are assigned and perform their assigned tasks. The Inspectors will ensure that the scope of services plan is followed, that site safety procedures are clear and enforced, fees are paid and permits are obtained with copies provided to the file, and that utility providers are notified in advance of required time limits.

Our team will ensure before and after pictorial documentation is collected. Disposal activities will be visually monitored and landfill tickets confirming load sizes and amounts paid will also be appended to the each property's file. Our Inspectors will coordinate with local inspectors and DPMC inspectors to ensure client satisfaction. A log of all such coordination will be maintained and preserved within the project's file. Any departures from the scope of services will be brought to the immediate attention of the Task Manager who will notify the Awarded Contractor. Corrective actions will be at the Awarded Contractor's expense and the need for such corrective actions will be recorded. If an individual Awarded Contractor is continually being required to take corrective actions, or fails to take corrective actions upon request, they can be sanctioned from further bid opportunities and contractually-mandated penalties may be enforced.

We anticipate that the construction oversight will include at least one visit for substantial completion to each site under construction. The AECOM team will generate standard status reports, and submit to DPMC.

Furthermore, we propose that our Inspectors work with DPMC to ensure that neighborhood outreach is conducted. AECOM excels in the practice of public engagement and our team can plan and execute a public engagement program in the work area to assist the public with any problems or issues they may have and avoid major disruption in the project area. Some examples of public engagement include neighborhood notification, specific site marking in advance of the on-site demolition work, contact information of the Program Manager and Awarded Contractor posted to address any questions and coordination with the local government. During demolition, the project sites will be cordoned off from entry to protect the safety of any bystanders.

Finally, the AECOM Team Inspectors will review and approve as appropriate each demolition contractor invoice or pay application to ensure that it correctly reflects charges.

Project Closeouts

The AECOM Team will coordinate with the Awarded Contractor and DPMC to collect all contract close-out documents and confirm that funds were used for their intended purpose. Our team will ensure all expenditures were adequately documented and within the contracted amounts. At a minimum, the following documents will be included in the close-out package.

1. Final Site Plan
2. Copies of Waste Manifests, bills of lading, or other applicable disposable documentation
3. Copies of Well Closure reporting form completed by licensed well driller
4. Copies of Board of Health Approval for Wastewater Disposal System
5. Recycling Plan (if required)
6. Copies of Test Reports
7. Pre-Demolition and Post-Demolition Photographs
8. Documentation regarding the source and quantity of imported clean fill
9. Copies of NJDCA Inspection Reports
10. Copies of NJDCA Permits and Certificate of Acceptance

As outlined in the RFP, the close-out documents listed above will be compiled into a bound manual of which five copies will be provided to DPMC.

B. IDENTIFICATION OF STAFF/ SUB-CONSULTANTS FOR VARIOUS TASKS

The AECOM Team is comprised of AECOM as the prime consultant, and a highly qualified environmental firm, USA Environmental Management, Inc. (USAEMI) for asbestos design and lead paint evaluation.

The AECOM Clifton, New Jersey office will be the lead project management office for the contract. Kim Vierheilig, AIA, LEED AP BD+C from our Clifton office, will serve as Principal-in-Charge for the Contract. She will work closely with **Kristy Gasparino, AIA, LEED AP who will serve as Program Manager and will be the primary point of contact on all technical matters and the primary liaison to the state throughout the execution of all Work Orders.** Ms. Gasparino will be primarily supported by Project/Work Order Manager, Humberto Morales, with additional managers Abigail Benjamin, Gerald Andrada, and Mark Jenkins available to manage projects as needed. Independent of the management team and a key element of our success is the QA/QC team under the direction of Majed Khoury, PE, PhD. Technical resource personnel from each of the respective disciplines will support the management team in the production and management of each Work Order, including oversight of our sub-consultant. Archaeology and historic preservation services will be provided, if needed, through in-house AECOM specialist Jesse Walker.

The roles and responsibilities chart in the **Organization Chart/Staffing Plan section of our response identifies the key and support staff and their associated tasks.**

Subconsultant Selection and Management

The AECOM Team includes one environmental firm, USAEMI, selected because they have extensive and successful project experience in New Jersey with DPMC and NJDEP and we worked successfully with them on a prior contract for this same scope of work for DPMC.

Once a Work Order is issued by DPMC, the pre-qualified sub-consultant will be solicited for a Work Order specific proposal. Because of AECOM's breadth of staff, we have technical experts that will be assigned to monitor the work products of our teaming partner. This in-house capability

also allows us to provide an additional layer of review prior to delivering sub-consultant's work products to NJDEP or integrating their work with other facets of the project.

The AECOM Team employs a time-tested sub-consultant management structure to initiate, monitor, control, and report subcontract activities. Subcontract management begins in the pre-proposal period with the establishment of teaming agreements, work scopes, and shared work goals. Upon contract award, subcontracts are negotiated and executed. These subcontracts are structured to flow down prime contract terms and conditions, representations and certifications, security requirements, and proprietary data safeguards and procedures. AECOM structures its subcontracts so that each sub-consultant is managed in the same fashion that DPMC manages us (i.e., by use of the same controls, procedures, standards, and requirements that are present in the prime contract). We accomplish this with the addition of flow-down requirements for management, quality and work products into individual delivery order subcontracts. This ensures full subcontract visibility and total accountability within the AECOM Team. Regular communications between AECOM and its sub-consultants prevents the potential impact of any issue from affecting contract/subcontract relations. Sub-consultant utilization will be driven by the program's needs. USAEMI is registered with the State of NJ in its respective disciplines. In the event a situation arises where a specialty outside the team may be required, AECOM will ensure that any additional sub-consultants are both registered and approved by DPMC prior to their utilization.

Subconsultant reporting is driven directly by the contract reporting requirements and similar data requirements are contained in the subcontracts. Sub-consultant labor, status, invoices, and accomplishments are integrated into the AECOM Team progress reports for presentation to and review by DPMC. AECOM continuously monitors subcontract performance against expectations in terms of performance tracking metrics and supporting measurements, and we evaluate our sub-consultant relationships at regular intervals. AECOM implements hands-on resolution of problems, and assumes responsibility for rapid, proactive solutions for both AECOM and any of the NJDEP's concerns and issues as they arise. By effectively controlling work assignments, by tracking and monitoring progress with structured cost, schedule, and quality performance metrics, and by instituting the same management procedures as applied to AECOM by DPMC and NJDEP, we establish and maintain direct and success-oriented sub-consultant control.

C. CONTINGENCY PLANS

While the AECOM Team prides itself in problem avoidance through the use of experienced highly trained managers, automated tools and formal quality control procedures, we also realize that problems or unanticipated events may occur that could affect a Work Order's technical quality, schedule or, budget. For those situations, we have established contingency procedures and protocols in place to handle these.

AECOM approaches assignments in the spirit of partnering and believe transparency in dealing with problems is the first step to success. If and when a problem is discovered, the AECOM Program Manager will immediately advise DPMC Project Contact to discuss appropriate corrective actions.

Through continual monitoring of the schedule and budget, we are able to take corrective actions before they become insurmountable and impact product deliverables.

As part of our contingency plan, we have structured the team such that when a divergence is noted, AECOM has the depth and breadth of resources to make staffing adjustments to take corrective actions. We have duplication in engineering staff to allow the team to adjust resources to meet schedule requirements. Where technical or procedural errors are detected, either through our detailed checking process or Internal Independent Technical Reviews corrective action will be taken.

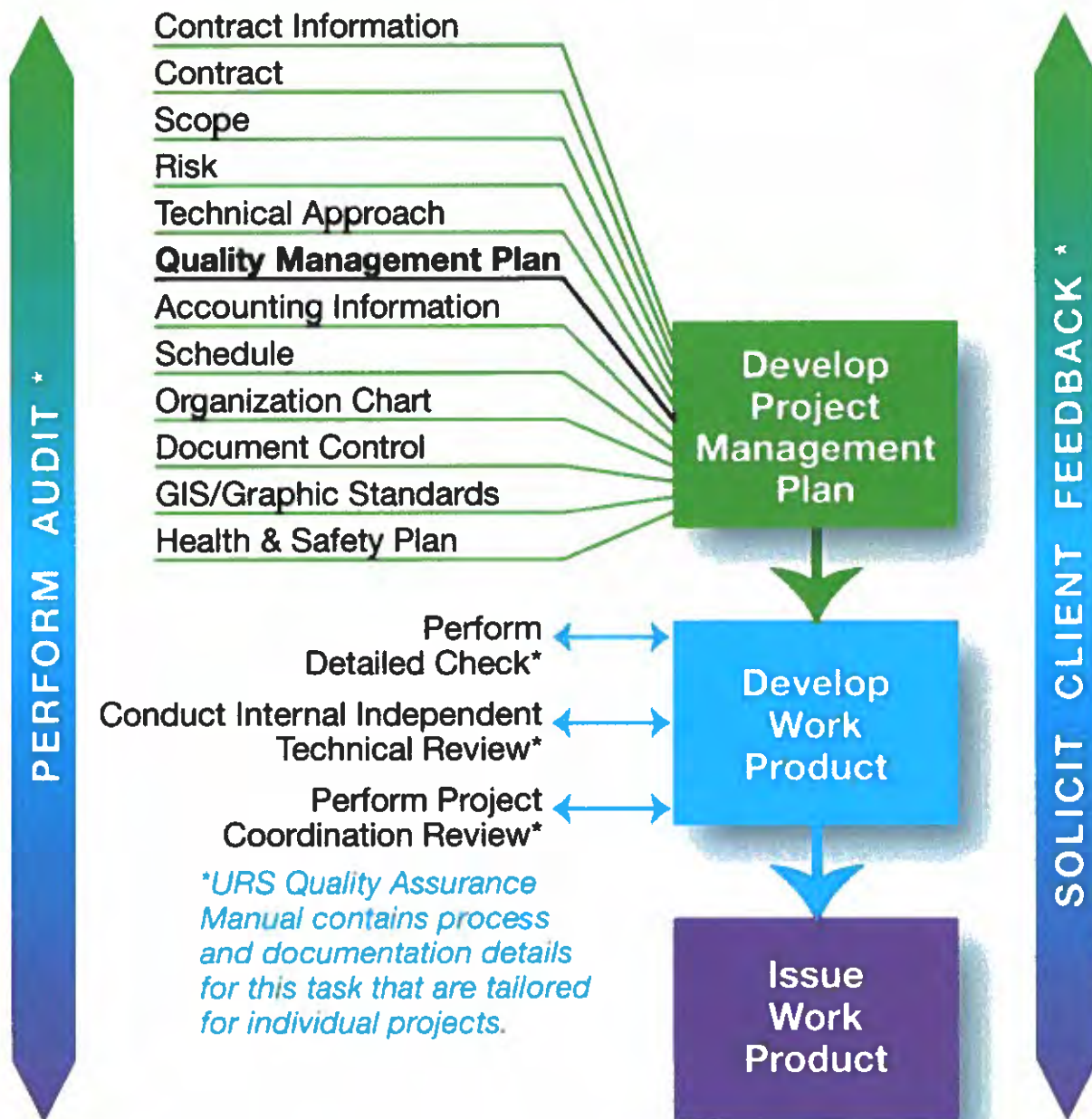
If at any point during the execution of work on this contract, it is indicated that the AECOM Team is not meeting expectations, either through feedback from internal or external QC checking results, the Work Order feedback process, or as a result of progress reports, we will go through an internal problem-solving process to identify our shortfalls and document appropriate changes in either a Process Improvement Plan or a Corrective Action Plan. Process improvement plans will be used to document changes to established procedures that are not meeting expectations. Corrective action plans will be used when the problem is not the established procedures, but the execution of these procedures and policies. The first step in this process will be a root cause analysis. The Program Manager and Project Managers will research the issues with the appropriate technical leads to determine if the problem is systemic or simply a failure of execution of procedures and policies. Our senior managers will review the types and source of errors to determine if they indicate an error trend, which may require follow-up activities such as a topic specific training session, process improvement/documentation, or staff reassignment. Once the root cause is determined, solutions will be brainstormed. The Program Manager will meet with the Project Managers,

and if necessary, the Principal-in-Charge to formulate the appropriate corrective course of action. The proposed action will be discussed with DPMC. Once a viable solution is selected, it will be implemented and the success/effectiveness of this solution will be monitored to assure the issue/problem has been completely resolved.

Formal process improvement/corrective action plans will be prepared to document and communicate these activities. These plans will be distributed internally to all AECOM Team members.

D. QUALITY CONTROL/PROJECT OVERSIGHT

AECOM' Quality Management Approach is founded in continual process improvement concept of PLAN, DO, CHECK, IMPROVE, and the empowerment of project staff at all levels of the project team. AECOM has a long-standing corporate culture that emphasizes our commitment to quality. We embrace the principles of ISO 9001:2008, and have applied them to all our major government contracts.



For each project undertaken, corporate policy requires AECOM to:

- Develop a Project Specific Project Management Plan, which incorporates a Quality Assurance Plan that defines the project-specific quality standards and all processes at project inception.
- Adjust the Project Specific Plans, as necessary to incorporate delivery order-specific requirements, such as milestone reviews, to identify the need and resources for special technical reviews, and to establish delivery order specific QC schedules and budgets.
- Perform detailed checks of all computations and work using existing checklists established for our NFIP related work.
- Conduct Internal (before NSP) Independent Technical Reviews (IITR) to validate compliance with standards and processes to ensure defect-free deliverables.
- Conduct quality assurance audits on each project to ensure that quality assurance processes are being fully adhered to and that they are meeting the goals and objectives of both the client and AECOM.
- Apply metrics-based continual process improvement systems to meet or exceed all performance goals.

Quality Assurance is an integrated part of the AECOM culture with a robust Corporate Quality Assurance Manual and Program. AECOM' QA/QC program ensures the quality of all aspects of our work meets our clients' technical and contractual requirements and objectives. QA/QC of work items are performed in accordance with contract and delivery order- specific requirements and approved Project Specific QA/QC plan. The AECOM QC program includes the following elements:

- Quality Culture that emphasizes and follows a Continual Quality Improvement philosophy. The Principal-In-Charge will assist DPMC through formal and informal partnering concepts and in the review and improvement of all processes affected by the contract. Our Principal-in-Charge and Program Manager will meet with DPMC regularly to ensure that the project teams are meeting or exceeding expectations.
- A QA/QC organization staffed with experienced personnel, with reporting lines independent of the project structure to ensure an unbiased review of each work element. As part of our Internal Independent Technical Review (IITR) process, peer reviewers are assigned to each project based on their professional

expertise and the nature of the work to be performed. IITRs are conducted in addition to detailed checking and play a somewhat different role in the QC process in that they are intended to verify overall contract and standards compliance and provide a broad review of technical approach as opposed validation of actual calculations which are the purview of detailed checking.

- A Corporate and Project-specific QA manual and standard operating procedures that contain comprehensive guidance to our technical staff on all aspects of a project and the QA/QC process.
- The AECOM Delivery Order-specific Project Management Plan, specifying the roles and responsibilities of each staff member assigned to the delivery order, budgeted hours, peer review procedures, schedules, communications procedures, and other project requirements. The Project Management Plan is updated as necessary throughout the life of the project and has been used effectively to guide the QA/QC program on AECOM Federal projects. One component of this Project Management Plan is the QA/QC Plan.
- The management team will monitor contract performance and is dedicated to continual improvement by listening closely to the needs of our Client. To assist the management team in completing its mission and delivering high-quality services, each member has full access to and online training in the AECOM management and performance control systems.

In addition to ongoing quarterly review meetings throughout the contract and periodic "how are we doing" calls from our QC Director and management team, the final step in our Quality Management process is to obtain client feedback to enhance our continual improvement cycle. At least annually, DPMC will be solicited feedback regarding the performance of through our OCSS, which will include a brief questionnaire geared to illicit responses targeting project specific areas for potential improvement. The results of the questionnaire will be fed back to the project team as part of AECOM' continual improvement process.

Policies and procedures for conducting inspections and oversight of the work are included in the Construction Management section above.

E. UNDERSTANDING AND KNOWLEDGE OF DPMC AND NJDEP PROCEDURES AND PROCESSES AND KNOWLEDGE AND FAMILIARITY WITH FEMA AND HUD REQUIREMENTS

Understanding and Knowledge of DPMC and NJDEP Policies and Procedures

AECOM has held several past and ongoing contracts with the Division of Property Management and Construction (DPMC) for projects with the New Jersey Department of Environmental Protection (NJDEP) and are quite familiar with the contracting protocols, reporting procedures, invoicing processes and forms. Presently AECOM is completing the final work order on the precursor to this DPMC/NJDEP Term Contract (Contract #P1103-00) entitled "TC-008 Demolition Consultant Multiple Award Term Contract" in which we are performing demolition design and construction administration services for the Blue Acres Acquisition program. This ongoing experience with a DPMC/NJDEP project demonstrates our experience with the agencies contracting procedures and the interrelationship between DPMC the State's contracting agent and NJDEP the contracts end user.

In 2013, NJDEP contracted AECOM to support the Superstorm Sandy HUD funded CDBG-DR Housing Recovery for New Jersey. NJDEP needed experienced consultants that could assist their agency in complying with HUD standards for environmental review in order to facilitate the distribution of HUD CDBG funds. The AECOM team has extensive knowledge of the HUD CDBG regulations NJDEP required, specifically those at 24 CFR Parts 55 and 58 and the NEPA requirements for environmental assessments. In this ongoing effort, the programmatic alternatives assessed by AECOM included the rehabilitation, elevation and/or demolition and reconstruction of over one thousand impacted residential homes, rental buildings and businesses within the disaster area. For this project, AECOM has created a very cost-efficient, technology driven process for environmental data collection and reviews that allows for easy audit by NJDEP, HUD and the state OIG; and through which AECOM has been able to support NJDEP in its disaster recovery mission in a rapid yet very cost effective way.

In addition, AECOM, and URS which was acquired in 2013, has had a continued presence in New Jersey since the early 1960's and has participated in the environmental programs

since the days of the Clean Air Act (1970), Clean Water Act (1972) and the RCRA (1976) programs. In the State of New Jersey, AECOM has worked under the various site cleanup programs such as Environmental Cleanup Responsibility Act (ECRA) and subsequently the Industrial Site Recovery Act (ISRA). Our local environmental professionals, including ten Licensed Site Remediation Professionals (LSRPs), have gained their expertise not only through our project work, but also through a long history of working with the New Jersey Department of Environmental Protection (NJDEP). AECOM is a leading firm in New Jersey for performing groundwater and soil remediation assessments

Knowledge and Familiarity with FEMA and HUD Requirements

AECOM offers exceptional depth and breadth of professional personnel available in-house with decades of environmental and historic review, housing recovery, CDBG, program implementation, PM/CM, and Stafford Act program knowledge. AECOM has proven performance supporting such large programs nationwide. In addition, the AECOM team offers immediately available and seasoned staff with unmatched knowledge of Federal and State requirements that will be able to meet DPMC's expectations. Our team is composed of dedicated personnel, highlighted in Section 1, over 1,200 personnel located throughout our New Jersey offices, and a pool of 50,000+ surge personnel located across the country. The AECOM Team is well organized, highly trained, and has the existing tools and management structure for success in executing this project for DPMC.

AECOM is extremely familiar with the procedural, technical and graphical specifications as defined by FEMA. This experience has been gained through working with four FEMA regions, including Region II, by supporting FEMA under multiple successive IDIQ contracts for nearly 25 years, and serving as FEMA's "go-to" provider of expert technical services nationwide. AECOM provides on-site and office based support to FEMA at all phases of the disaster lifecycle, from hazard mitigation planning, immediate response and recovery assistance support, to long-term post-disaster compliance support. Over the years AECOM has provided support to FEMA in over 185 disaster declarations through over 750 individual task orders. Also, since 1995, through multiple contracts worth over \$250 million, AECOM has been providing FIS and DFIRM development and production services to FEMA nationwide as part of the Map Modernization Program and now Risk MAP.

Regarding HUD, the AECOM team has a proven capability to rapidly develop and execute construction management processes that have been previously implemented, time tested, and met HUD approval. Our experience

managing large scale housing programs, and proven program management processes are a testament to this statement. The AECOM Team has extensive and demonstrated experience in working collaboratively with other professional services contractors on large-scale Community Development Block Grant Disaster Recovery (CDBG-DR) programs. We offer DPMC outstanding credentials and direct relevant experience for CDBG-DR housing construction programs. Our qualifications, coupled with local experienced personnel and national experts, provide the assurance the AECOM Team brings the best in terms of local knowledge, expertise, and capacity. Our experience with disaster recovery housing programs after Hurricanes Katrina, Rita, Dolly, Ike, Sandy, Harvey, Irma, and Maria allowed the AECOM Team to develop many of the operational themes that are recognized by HUD as best management practices (BMP). We understand the intensity and complexity of undertaking large-scale, scattered site construction programs, and have a well-developed program management process supported by key leaders with the experience needed to rapidly mobilize, plan, develop, and execute the DPMC Program. **For example, AECOM developed the CDBG environmental review process, which was adopted by HUD as the national standard, as part of the Mississippi Development Authority (MDA) program following Hurricane Katrina.**

AECOM has the best expertise available within the consulting industry for FEMA/HUD CDBG-DR programs. Our national contracts with FEMA for Public Assistance, Individual Assistance, and Hazard Mitigation, along with our expertise in leveraging private capital sources, serve our clients well. Also we have the most comprehensive experience with HUD CDBG-DR programs with a proven history of outstanding performance on two of the largest disaster recovery housing programs ever funded. The comprehensive services AECOM provided to previous projects extends from policy and program development in the early or pre-funding stage, all the way through construction and closeout of the projects. Our work for the Mississippi Development Authority after Hurricane Katrina and the Texas General Land Office after Hurricane Ike demonstrates our history of successful performance. AECOM helped pioneer these programs as we implemented new regulations and policies being developed to govern the program while simultaneously executing the task orders. We were at the forefront working directly with our clients and HUD to codify solutions that work not only in theory, but on the ground during project implementation.

**TC-004 TERM CONTRACT RATE SCHEDULE
BY PERSONNEL LEVEL**

NAME OF FIRM: AECOM Technical Services, Inc.

INSTRUCTIONS

Provide a **LOADED** hourly rate (\$ per hour; no cents please) below for all **Personnel** included in each of the **Levels** listed. Please refer to page 3 of these instructions for a description of each of the personnel types by level. Your proposal may be considered unresponsive if you leave blanks.

PERSONNEL TYPE/DISCIPLINE	TERM CONTRACT HOURLY RATES PER CONTRACT PERIOD		
	BASE (3 YEARS)	EXTENSION OPTION - YR 4	EXTENSION OPTION - YR 5
LEVEL 7	\$225	\$234	\$244
LEVEL 6	\$200	\$210	\$215
LEVEL 5	\$185	\$194	\$199
LEVEL 4	\$150	\$158	\$165
LEVEL 3	\$100	\$105	\$110
LEVEL 2	\$85	\$89	\$94
LEVEL 1	\$65	\$68	\$70
AVERAGE RATE (ALL LEVELS) Please calculate for Levels 7 -1	\$144	\$151	\$157

Authorized Signature: _____

Tom Scerbo, AIA

Title: Vice President - Managing Principal

RETURN THIS COMPLETED DOCUMENT TO DPMC

(PAGE 2 OF 3)

TERM CONTRACT TC-004
DATE: 1/19

TC-004 PERSONNEL LEVELS with EXAMPLES

LEVEL 7

Title: Principal, partner or officer of the firm

Duties: Overall responsibility for the legal, technical and financial obligation of the firm.

Qualifications: Current License in applicable discipline, if required by law.

Experience: N/A

LEVEL 6

Title: Project Executive;

Duties: Under direct leadership of principal, controls project scheduling and management.

Qualifications: Current license in applicable discipline, if required by law.

Experience: N/A

LEVEL 5

Title: Project Manager; Discipline Manager;

Duties: Under direction of Project Executive, directs day-to-day operations of the project, scheduling deadlines, group work activities, etc.

Qualifications: BA, BS degree or equivalent experience; Current license in applicable discipline, if required by law.

Experience: Minimum 7 years.

LEVEL 4

Title: Senior Engineer; Senior Designer;

Duties: Under supervision of Project Manager, reviews project elements to conform to project requirements, directs designer and others on projects.

Qualifications: BA, BS degree or equivalent experience; Current license in applicable discipline, if required by law.

Experience: Minimum 5 years

LEVEL 3

Title: Discipline Engineer; Designer;

Duties: Under supervision performs basic engineering tasks, analysis or elements of project scope; Takes designed systems and layout data and sketches and translates into usable construction documents.

Qualifications: BA, BS degree or equivalent experience; including appropriate licenses and certifications if required.

Experience: Minimum 3 years

LEVEL 2

Title: Senior Technical Support; Senior CADD Operator/Draftsperson;

Duties: Oversees of the preparation of site maps, Takes simple systems and layout data and sketches and translates into usable information; Performs drafting as required for construction documents.

Qualifications: High School Graduate, Technical School, or equivalent, with courses in discipline.

Experience: Minimum 3 years direct work experience within discipline.

LEVEL 1

Title: Computer or CADD Draftsperson; Technician; Office Assistant

Duties: Performs all entry level tasks: Assembles tracings for review, printing; keeps logs of tracings, shop drawings; performs tracing, drafting and other technical tasks; performs various office functions.

Qualifications: High School Graduate, Technical School or equivalent with courses in discipline.

Experience: N/A

(PAGE 3 OF 3)

**TC-004 TERM CONTRACT RATE SCHEDULE
BY PERSONNEL LEVEL**

NAME OF FIRM: USA ENVIRONMENTAL MANAGEMENT, INC.

INSTRUCTIONS

Provide a **LOADED** hourly rate (\$ per hour; no cents please) below for all **Personnel** included in each of the **Levels** listed. Please refer to page 3 of these instructions for a description of each of the personnel types by level. Your proposal may be considered unresponsive if you leave blanks.

PERSONNEL TYPE/DISCIPLINE	TERM CONTRACT HOURLY RATES PER CONTRACT PERIOD		
	BASE (3 YEARS)	EXTENSION OPTION – YR 4	EXTENSION OPTION – YR 5
LEVEL 7	\$150.00	\$160.00	\$170.00
LEVEL 6	\$125.00	\$135.00	\$145.00
LEVEL 5	\$100.00	\$110.00	\$120.00
LEVEL 4	\$90.00	\$95.00	\$100.00
LEVEL 3	\$85.00	\$90.00	\$95.00
LEVEL 2	\$80.00	\$85.00	\$90.00
LEVEL 1	\$75.00	\$80.00	\$85.00
ASBESTOS PLM ANALYSIS	\$14.00	\$15.00	\$16.00
ASBESTOS TEM ANALYSIS	\$75.00	\$77.50	\$80.00
AVERAGE RATE (ALL LEVELS) Please calculate for Levels 7 -1	\$101.00	\$108.00	\$115.00

Authorized Signature: W. Wang Title: Program Manager

RETURN THIS COMPLETED DOCUMENT TO DPMC**(PAGE 2 OF 3)**

**TC - 004
DEMOLITION CONSULTANT
MULTIPLE AWARD TERM CONTRACT**

CONSULTANT AFFIDAVIT

IMPORTANT - PLEASE READ, SIGN AND PROVIDE INFORMATION REQUESTED BELOW

Affidavit: I, being duly sworn upon my oath, hereby represent and state the foregoing information contained in the Term contract Proposal and any attachments thereto the best of my knowledge are true and complete. I acknowledge that the State of New Jersey (Owner) is relying on the information contained herein and thereby acknowledge that I am under a continuing obligation from the date of this certification through the completion of any contracts with the Owner, or its contractors, to notify the Owner in writing of any changes to the answers or information contained herein. I acknowledge that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I recognize that I am subject to criminal prosecution under the law and that it will also constitute a material breach of my agreements(s) with the Owner and that the Owner, at its option, may declare any contract(s) or sub-contract(s) resulting from this certification void and unenforceable.

Signature of the Consultant below attests that the Consultant has read, understands and agrees to all terms, conditions and specifications set forth and referenced in the TC - 004 Term Contract Request for Proposal (RFP) including the General Conditions to the Demolition Consultant Term Contract TC-004 and the Statement of Assurances for Contractor/Consultant - Additional Federally Funded Agreement Provisions. Signature of the Consultant signifies that a contract is established immediately upon notice of award by the State of New Jersey for any or all of the items and the length of time indicated in the proposal. Failure to accept a contract award, to hold prices or to meet any other terms or conditions as defined in the Request for Proposal and subsequently the Notice of Award, during the term of the contract, shall constitute a breach of contract and may result in termination, suspension or debarment from further contractual agreements with the Owner.

Signature and Title of Principle or Individual of the firm authorized to sign contractual documents:

Firm Name: AECOM Technical Services, Inc.

Signature: 

Print Name: Tom Scerbo, AIA

Title: Vice President - Managing Principal

Date: March 8, 2019

ATTESTED: Sworn and subscribed to before me on the 8th day of MARCH, 1998 2019

Signature: 
(Notary Public-Not an Officer of the Firm)

VIVIAN RAMOS
NOTARY PUBLIC, State of New York
No. 01RA5070460
Qualified in Queens County
Commission Expires December 16, 2022

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(PAGE 1 OF 3)

TERM CONTRACT TC-004
DATE: 1/19