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22 June 2015

City of Fort Lauderdale
City Hall
Division of Procurement Services
100 N. Andrews Avenue, Room 619
Fort Lauderdale, FL 33301

**Re: General Environmental Engineering Services Continuing
Contract - Bid #256-11587**

To Whom It May Concern:

Langan Engineering and Environmental Services, Inc. is pleased to submit one original, five copies, and one electronic version on USB thumb drive of our proposal for Bid 256-11587 to the City of Fort Lauderdale to provide Environmental Engineering Services. We have made ourselves completely familiar with the contents of the RFQ and the potential type of work which could be offered.

Langan's South Florida operations were founded in 1974. Today, we have offices in Fort Lauderdale and Miami Lakes and have more than 41 professionals providing environmental, geotechnical, and site/civil engineering services across Florida, the Southeast, the Caribbean, and Latin America. Our Fort Lauderdale office is two blocks from City Hall! In addition to the local expertise and regional knowledge that is vital to project success, Langan provides clients with the depth and breadth of experience of a nationwide network of more than 900 professionals.

Vincent Yarina, PG, CEM will serve as the point of contact and project manager authorized to make representations for the firm. Vince is a Senior Associate and Vice President and leads Langan's environmental practice in Florida. He has more than 23 years of experience providing environmental engineering services to a national client base that includes public agencies, Fortune 500 companies, land developers, financial institutions, attorneys, and institutional investors. Vince also has extensive knowledge working with regulatory agencies in Florida, Georgia, Nevada and California on issues ranging from tank closures to site assessments to remedial actions.

Mr. Yarina will be supported by Chip Day. Chip has 15 years of experience working on various natural resources-related project types and ecosystems throughout South Florida. He is very familiar with the unique regulatory hurdles associated with Broward County, and how to get over them! The most notable hurdles are associated with potential impacts to the regulated natural resources within the County, such as seagrass, wetlands, mangroves, coral and other protected unique habitats.

We strongly believe that our clients are better served when we work together to deliver an integrated suite of services and produce proven solutions that ensure project success. As such, the Langan team is encouraged to regularly draw upon the knowledge and experience of the firm and its staff. This collaborative environment is sustained through frequent inter- and cross-department training and workshops as well as robust on-line sharing platforms such as our intranet.

In addition to our qualified staff, we have assembled a team of trusted, local subconsultants whom we have worked with on previous projects and will call in as needed to meet the needs of the City.

The contact information for Mr. Yarina is provided below:

Vincent D. Yarina, PG, CEM
Langan Engineering & Environmental Services, Inc.
110 East Broward Boulevard, Suite 1500
Fort Lauderdale, FL 33301
D: 954.320.2110
F: 954.320.2101
E: vyarina@langan.com

We appreciate the opportunity to submit our qualifications and look forward to working with the City of Fort Lauderdale. We trust that the expertise and qualifications displayed in this response to the City's RFQ for professional services will garner your support. We are confident that our knowledge and experience providing environmental engineering services will serve the best interests of the City and its residents and stakeholders.

Sincerely,

Langan Engineering & Environmental Services, Inc.



Vincent D. Yarina, PG, CEM
Senior Associate/Vice President

STATEMENT OF QUALIFICATION CERTIFICATION

Please Note: All fields below must be completed. If the field does not apply to you, please note N/A in that field.

If you are a foreign corporation, you may be required to obtain a certificate of authority from the department of state, in accordance with Florida Statute §607.1501 (visit <http://www.dos.state.fl.us/>).

Company: (Legal Registration) Langan Engineering and Environmental Services, Inc.

Address: 110 East Broward Boulevard, Suite 1500

City: Fort Lauderdale State: FL Zip: 33301

Telephone No. 954.320.2100 FAX No. 954.320.2101 Email: vyarina@langan.com

Does your firm qualify for MBE or WBE status: MBE WBE

ADDENDUM ACKNOWLEDGEMENT - Proposer acknowledges that the following addenda have been received and are included in the proposal:

<u>Addendum No.</u>	<u>Date Issued</u>	<u>Addendum No.</u>	<u>Date Issued</u>
<u>N/A</u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>

VARIANCES: State any variations to specifications, terms and conditions in the space provided below or reference in the space provided below all variances contained on other pages of bid, attachments or bid pages. No variations or exceptions by the Proposer will be deemed to be part of the bid submitted unless such variation or exception is listed and contained within the bid documents and referenced in the space provided below. If no statement is contained in the below space, it is hereby implied that your bid/proposal complies with the full scope of this solicitation. If this section does not apply to your bid, simply mark N/A. **If submitting your response electronically through BIDSYNC you must click the exception link if any variation or exception is taken to the specifications, terms and conditions.**

N/A

The below signatory hereby agrees to furnish the following article(s) or services at the price(s) and terms stated subject to all instructions, conditions, specifications addenda, legal advertisement, and conditions contained in the bid/proposal. I have read all attachments including the specifications and fully understand what is required. By submitting this signed proposal I will accept a contract if approved by the City and such acceptance covers all terms, conditions, and specifications of this bid/proposal. The below signatory also hereby agrees, by virtue of submitting or attempting to submit a response, hereby agrees that in no event shall the City's liability for respondent's indirect, incidental, consequential, special or exemplary damages, expenses, or lost profits arising out of this competitive solicitation process, including but not limited to public advertisement, bid conferences, site visits, evaluations, oral presentations, or award proceedings exceed the amount of five hundred dollars (\$500.00). This limitation shall not apply to claims arising under any provision of indemnification or the City's protest ordinance contained in this competitive solicitation.

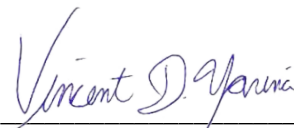
Submitted by:

Vincent Yarina

Name (printed)

June 20, 2015

Date:



Signature

Senior Associate/Vice President

Title

3

Qualifications of the Firm

Corporate Summary

Integrated Solutions. Measurable Value.



Langan provides an integrated mix of engineering and environmental consulting services in support of land development projects, corporate real estate portfolios, and the oil and gas industry. Our clients include developers, property owners, public agencies, corporations, institutions, and energy companies around the world.

Founded in 1970, Langan employs more than 900 professionals in its Elmwood Park, NJ headquarters and among regional offices in:

- Fort Lauderdale, FL
- Miami, FL
- New York City, NY
- White Plains, NY
- Trenton, NJ
- Philadelphia, PA
- Bethlehem, PA
- Doylestown, PA
- Pittsburgh, PA
- New Haven, CT
- Arlington, VA
- San Francisco, CA
- Oakland, CA
- Sacramento, CA
- San Jose, CA
- Irvine, CA
- Bismarck, ND
- Akron, OH
- Houston, TX
- Atlanta, GA

Langan International, the firm's wholly owned subsidiary headquartered in New York City, provides all firm services for projects in the Middle East, Eastern Europe, Latin America, and the Caribbean. Langan International regional locations are in:

- Abu Dhabi
- Athens
- Doha
- Dubai
- Istanbul

Langan's broad range of services includes the following:

- Environmental Engineering
- Natural Resources Assessments & Permitting
- Asbestos, LBP, Indoor Air Quality/Mold Consulting
- Geotechnical Engineering
- Foundation Design
- Site/Civil Engineering
- Earthquake/Seismic
- Surveying
- 3D Laser Scanning
- Building Information Modeling (BIM)
- Landscape Architecture + Planning
- Transportation/Traffic Engineering
- GIS/Data Management Services
- Demolition Engineering

Regional Capabilities



Global Presence. Local Expertise.

Langan is a New Jersey corporation authorized to transact business in Florida. Our team includes more than 41 technical engineers and scientists, many of whom have worked on some of the largest and complex projects across South Florida since 1974. The South Florida team has been called upon by numerous local governments and developers throughout the years, resulting in the establishment of many long-term relationships with local cities and communities.

It is the firm's goal to provide the City of Fort Lauderdale with the highest level of technical and professional excellence throughout the project.

Lead Contact

Vincent Yarina, PG, CEM
D: 954.320.2110
F: 954.320.2101
E: vyarina@langan.com
www.langan.com

Primary Office

110 E. Broward Boulevard, Suite 1500
Fort Lauderdale, FL 33301

Distance to City: 0.3 Miles

Support Services

15150 NW 79 Court, Suite 200
Miami Lakes, FL 33016

Distance to City: 25.3 miles

FL License Number

6601

Services

Technical and Regulatory Knowledge

Langan's broad range of services includes the following:

- Environmental Engineering
- Natural Resources Assessments & Permitting
- Asbestos, LBP, Indoor Air Quality/Mold Consulting
- Remediation Technologies
- Geotechnical Engineering
- Foundation Design
- Site/Civil Engineering
- Earthquake/Seismic
- Surveying
- 3D Laser Scanning
- Building Information Modeling (BIM)
- Landscape Architecture + Planning
- Transportation/Traffic Engineering
- GIS/Data Management Services
- Demolition Engineering



Your Environmental Advocate

Who We Are

Langan is a nationally recognized “hands on”, multi-disciplined engineering firm with expertise in environmental compliance and remediation for the petroleum industry. Our reputation has been forged by providing innovative, cost-effective solutions to some of the most difficult environmental and engineering challenges confronting our clients within numerous industries, including petroleum, chemical, pharmaceutical, telecommunications, utilities, and manufacturing.

Our ability to integrate our environmental expertise with complementary core disciplines such as geotechnical and engineering, natural resources and permitting, survey and mapping, provides a streamlined approach to project management that positively affects your bottom line. Additionally, our environmental staff possesses wide and deep knowledge of numerous regulatory programs and relevant legislative matters that are critical to our clients. Langan technical leaders often play key advocacy roles in the shaping of state environmental policies and guidelines, which in turn helps us work collegially with regulatory bodies and enables us to be proactive with engineering solutions that are progressive, practical and permanent.

Through four decades of providing our comprehensive subsurface investigation and remediation services from conception through completion, Langan is continually recognized as a leader in our field, earning major awards for engineering excellence and technical innovation.

Environmental

Technical and Regulatory Knowledge



Langan works with project teams to provide leading-edge, focused, streamlined investigations and risk-based remediation. We excel in promoting and gaining regulatory acceptance of risk based strategies to obtain cost effective site closures. Langan possesses expertise in a wide variety of projects including state Voluntary Programs, Brownfields, RCRA, State and Federal Superfund, Manufactured Gas Plants (MGP) and Storage Tank programs.



Langan Environmental Services:

- Risk-Based Corrective Action
- Brownfields
- Storage Tank Management
- Due Diligence Support
- Environmental Assessments
- Site Characterization
- Permitting/Regulatory Approvals
- Remediation Design/Oversight
- Water Resources/Supply
- Hydrological Investigations
- Wastewater and Stormwater Permitting
- Air Modeling
- GIS/Database Management
- Environmental Impact Statements (EIS)
- Manufactured Gas Plant Remediation Services
- Asbestos/Lead-Based Paint Abatement
- Management of PCB-Containing Materials
- Indoor Air Quality/Mold
- Demolition
- Waste Management
- Compliance Auditing
- Ecological Risk Assessment
- Human Health Risk Assessment
- Site Feasibility Studies
- Remediation by Natural Attenuation
- Expert Witness
- Exposure Assessments
- Free Product Volume and Mobility Modeling



Hazardous Materials

Safety First

Asbestos



Langan routinely performs buildings investigations for city, state and federal agencies for asbestos-containing materials (ACM). Our ACM surveys typically include review of original design documents, construction records, review of environmental reports for the property, site assessment, and the collection and analysis of bulk samples. In occupied buildings, the survey typically will not include intrusive means of access such as puncturing the walls, ceilings, or core sampling of roofing materials. Samples are typically collected following the AHERA regulations and are analyzed using Polarized Light Microscopy (PLM). Intrusive investigation of concealed spaces is performed only upon receiving written authorization.

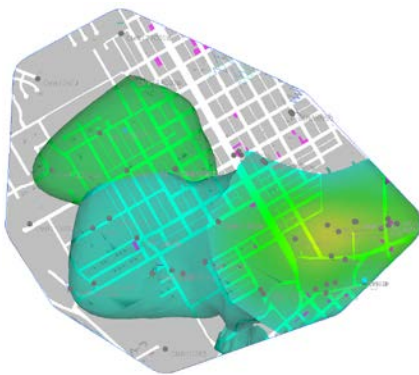
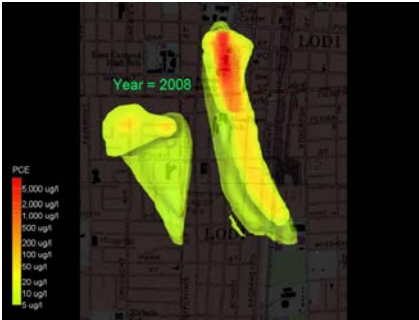
Non-friable organically bonded (NOB) materials, such as roofing, Vinyl tiles, etc., which may present difficulty in identifying asbestos by PLM, are re-analyzed using Transmission Electron Microscopy (TEM), in accordance with the State requirements. All sampling is performed by Langan asbestos professionals, who are certified Asbestos Hazard Emergency Response Act (AHERA) inspectors under USEPA and licensed to practice in individual state.

Lead-Based Paint

Lead-based paint surveys are also routinely performed when directed by our clients. Langan utilizes a Niton fluorescence (XRF) Spectrum Analyzer to inspect the buildings for the presence of lead-based paint. The results of the inspection are compared to the federal HUD Guidelines governing lead in paint. The inspections are usually performed to address worker exposure to lead under 29 CFR 1926, and the disposal of demolition/construction debris under the Federal Resource Conservation and Recovery Act (RCRA).

In addition to LBP screening inspection, we also perform waste characterization study for classification of the demolition debris. The recommended sampling protocols developed by the United States Environmental Protection Agency (USEPA) and those established by the United States Department of the Army's Environmental Hygiene Agency are primarily followed during the characterization study.

Groundwater Modeling



Modeling of groundwater and surface water is the science of using computers as tools to predict and illustrate the flow of water and/or contaminants over time. Langan recognizes that modeling is a valuable tool for understanding the hydrologic system, ground water resource management, and remediation design.

Langan has the capabilities to provide cities and agencies with groundwater flow and transport models to assess the interaction of contaminant plumes and potential remediation approaches. Our modeling projects rely upon various groundwater modeling platforms and codes to provide a series of snapshots over time which are then interpreted and animated using CTech's EVS software. This offers a clearly presented model that synthesizes a number of highly technical and complex tasks from which recommendations can be made.

The following summarizes Langan's model applications for groundwater and surface water resources management, fate and transport evaluations, and litigation and mediation:

- Simulating groundwater flow
- Evaluating contaminant fate and transport
- Managing Regional aquifer systems with multiple users
- Evaluating impacts of waste disposal from landfills and mining activities
- Assessing the efficiency of aquifers
- Identifying optimal design for groundwater remediation systems
- Assessing saltwater intrusion into coastal aquifers
- Evaluating impact of hydraulic barriers for site dewatering, seawater intrusion, and contaminant migration
- Evaluating multi-party responsibility in litigation arising from disputes with regard to water supply and groundwater contamination
- Optimizing groundwater supply system energy use

Health Risk Assessment

Identifying Risk-Based Alternatives



Langan works with project teams to focus areas of investigation and identify risk-based alternatives for reducing remediation costs. We excel in promoting and gaining regulatory acceptance for human health risk assessments spanning a broad range of potential land use scenarios, including recreational, residential, commercial, and industrial. Langan places specific emphasis on stakeholder engagement and communication during the risk assessment planning and implementation process to facilitate acceptance of methods and conclusions. We possess expertise in a wide variety of projects including state Voluntary Programs, Brownfields, RCRA, State and Federal Superfund, Manufactured Gas Plants (MGP) and Storage Tank programs.

Langan HRA Services:

- Multipathway Risk Assessment
- Risk-Based Alternative Remediation Standards
- Baseline Human Health Risk Assessment
- Exposure Assessment
- Vapor Intrusion Modeling
- Evaluation of Background Concentrations
- Sampling Strategies
- Statistical Data Evaluation
- Toxicity Assessment
- Derivation of Exposure Point Concentrations
- Regulatory Negotiations
- Chemical Fate and Transport Modeling
- Multiple Descriptors of Risk
- Screening Level Human Health Risk Assessment
- Uncertainty Analysis
- Risk Communication
- Long-term Risk Management

Indoor Air Quality

Take a Deep Breath



Most people are aware that outdoor air pollution can damage their health, but many do not know that indoor air pollution can also have significant health effects. USEPA studies of human exposure to indoor air pollutants may be 2 to 5 times, and occasionally more than 100 times, higher than outdoor levels. These levels of indoor air pollutants may be of particular concern because most people spend 90% of their time indoors.



Energy conservation measures for office buildings instituted during the early 1970s have minimized the infiltration of outdoor air and have subsequently contributed to the build-up of indoor air contaminants. Additionally, concern about indoor exposure to mold has been increasing as the public becomes aware that exposure to mold can cause a variety of health effects and symptoms.

Langan provides an experienced team of qualified professionals committed to the highest level of technical excellence and client responsiveness. Our approach is to provide cost-effective practical engineering and environmental services to guide projects to successful completion.



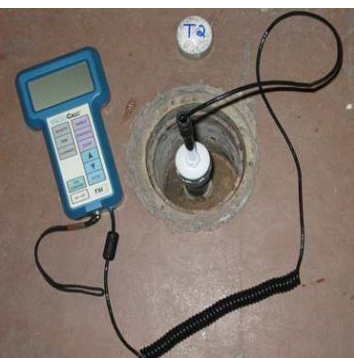
Langan currently provides a variety of services relating to indoor air quality concerns. Examples of these include:

- Indoor air quality profiles
- Microbial contamination assessments
- Environmental engineering/investigation
- Construction and/or renovation inspection and oversight
- Health and safety monitoring
- Risk analysis
- Environmental compliance
- Remedial plans/specifications/contract documents
- Project management
- Indoor air quality testing
- Industrial hygiene studies
- Indoor Air Quality training programs to address building occupants concerns



Vapor Intrusion Evaluation and Mitigation

Experts in Vapor Intrusion



Langan's environmental staff are experienced with evaluating and mitigating vapor intrusion, the migration of volatile chemicals from the subsurface into overlying buildings. In the mid-1990's vapor intrusion became more widely recognized by the environmental regulatory community as warranting specific attention. Since that time, Langan has been active in both state and federal regulatory programs in helping develop guidance for the various stages of vapor intrusion including receptor evaluation, investigation, remediation, monitoring, and closure. Our environmental technical staff are familiar with established protocols for investigating the vapor intrusion pathway including the recommended number of sub-slab soil gas and indoor air samples based on the size of the building footprint and numerous other building and site-specific technical factors.

Langan has developed an in-house vapor intrusion training program focusing on the following aspects of vapor intrusion:

- General vapor intrusion concepts
- Field sampling demonstrations
- Field methods and analyses
- Data evaluation (including modeling)
- Remedial methods

Langan's Vapor Intrusion Services Include:

- Screening for property transactions (ASTM E2600-10)
- Receptor evaluations
- Soil gas sampling (sub slab and near slab)
- Indoor air sampling
- Background/ambient sampling
- Off-site residential sampling and mitigation programs
- Community interaction for VI evaluation programs
- VI Modeling
- Industrial, commercial, and residential mitigation systems
 - Barriers
 - passive ventilation
 - active depressurization
- Operation and maintenance monitoring

Natural & Cultural Resources

Navigating Policy and Nature

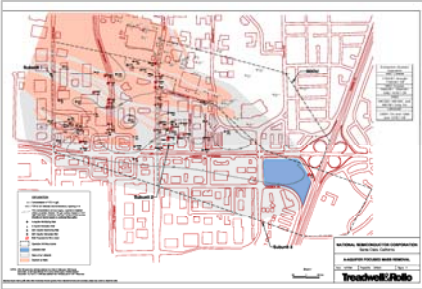


Many Marcellus Shale gas sites cause earth disturbances which in turn affects natural resources. Improper management can lead to project delays or shutdowns. Langan has developed strong relationships with the federal, state and local regulators through our experience with over 1,000 wetland and natural resource permitting projects throughout the U.S. We specialize in PA, NJ and NY regulations. Langan's Natural & Cultural Resource staff consists of certified professional wetland scientists, ecologists, planners, wildlife biologists, and archaeologists with practical experience. Our experienced staff includes permitting specialists who work closely with our engineers to design a "permissible" project, while providing the most economic return to our clients. Our ability to identify critical natural and cultural resources issues early in the design process and our in-depth understanding of regulatory programs and policies results in an expedited application and approval process. Our natural resource experts can provide the oil and gas industry with the following relevant services:

- NEPA Compliance
- Wetland Delineations & Functional Assessments
- Wetland Mitigation Design, Banking, & Monitoring
- Army Corps of Engineers Section 10/404 Permitting
- Land Use Permitting
- Stormwater and Industrial Discharge Permitting
- Environmental Assessment/Environmental Impact Statement (EA/WIS)
- Alternatives Analysis
- Stream Restoration & Bioengineering
- Floodplain Analysis
- GIS Land-Use Mapping
- Wildlife & Ecological Surveys
- Threatened and Endangered Species Surveys
- Historic Structures Surveys and Recordation
- Archaeological Investigations
- Coastal/Waterfront Development Permitting and Planning
- Baseline Ecological Evaluations (BEE)
- Ecological Risk Assessment

Carbon Footprinting

Sustainable Remediation Tools



Langan has performed greenhouse gas emissions inventories, also known as carbon footprint analyses, for several environmental clients within California and the United States. Carbon footprint analysis is an accounting of the direct and indirect emissions of greenhouse gasses associated with an activity, such as a remediation project. Langan is well versed in carbon footprinting tools and protocols, including the Sustainable Remediation Tool (SRT) and the SiteWise Tool.

Demonstrating the business value for green and sustainable remediation (GSR) begins with a method for adequately measuring “value” and allowing businesses to weigh that value against other business priorities, most notably cost. Langan uses carbon footprint analyses as a decision tool for businesses, which have improved the impact and value of sustainable business actions.

Langan has performed carbon footprint analyses for the following example clients and projects:

- Semiconductor manufacturing facility
- Petroleum production company
- Industrial site remediation
- In Situ bioremediation processes
- In Situ thermal remediation processes
- Water treatment processes
- Landfill remediation
- Construction, operation, and maintenance



Landfill Remediation & Redevelopment

Capping, Cleaning, and Re-Creating Communities

Few firms possess the in-house capabilities and experience of Langan to address the subsurface, remedial, and regulatory challenges of landfill redevelopment projects. Over 40 years in business has forged our reputation as a 'go-to' engineer to balance the concerns of both the developer and the community on these project assignments. Our commitment to technical excellence and practical experience allows us the ability to develop elegant solutions for complex sites.

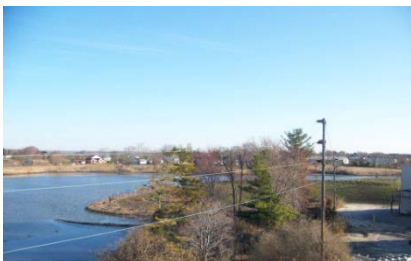


During those decades, Langan has established the respect of the various state and federal agencies as a trustworthy technical consultant that understands the regulations and cares about community.

We continue to help property owners, developers, and municipalities overcome the challenges associated with capping or redeveloping landfills for a range of end uses from recreational to renewable energy to commercial projects, as well as residential projects. Langan experts have seen and handled virtually every aspect related to a landfill project, including comprehensive subsurface investigations, baseline ecological evaluations, methane venting and leachate conveyance systems, ground improvement programs, and site planning and permitting.

Langan Landfill Remediation Services:

- Capping and closure design and engineering
- Subsurface containment / cut-off walls
- Slope stabilization
- Leachate collection and treatment
- Landfill Disruption Permitting
- Closure plans and regulatory approval
- Green capping, including phytoremediation and habitat restoration
- Wetlands and Waterfront Development Permitting



Brownfield Redevelopment

Urban Core Revitalization



Since the 1970s, decades before the advent of the “Brownfield” initiative, Langan has provided comprehensive services for the reuse of urban sites, the decommissioning and subsequent redevelopment of large industrial facilities, and the investigation and remediation of hazardous waste sites.

Langan's value engineering and cost-saving solutions in Brownfield Redevelopment have led to an unparalleled track record of award-winning reuse projects. We have negotiated precedent-setting regulatory agreements, utilized risk-based site closure strategies, provided technical assistance during grant application submission, and served as Technical Program Manager for National Brownfield Pilot programs. Langan has also played a key role in the success of numerous public/private reuse partnerships that facilitated fast-track, large-scale redevelopment projects. Furthermore, we were actively involved with the ASTM E-50.03 Task Group that developed the Standard Guide to the Process of Sustainable Brownfield Redevelopment.

Environmental Due Diligence

Experience and Advice You Can Rely On



Langan has a proven track record of conducting environmental due diligence services for various clients including lending institutions, developers, corporations, and government agencies. Our environmental due diligence approach focuses on identifying and thoroughly investigating potential environmental concerns and liabilities given the limitations of schedule and budget. What differentiates Langan from the competition is our integrated engineering approach of using in-house resources from other disciplines to evaluate data from their own unique perspective. Our broad technical resources allow us to evaluate real issues of concern for our client. Having completed thousands of pre-transactional projects, Langan has experienced the many situations that arise during transactional and post-transaction processes. Based upon these collective experiences we provide sound advice that our clients rely on to make their business decisions. With regard to client responsiveness, we realize that the typical transaction contract has a very short due diligence period. We are committed to always getting the job completed while making sure the client thoroughly understands the issues prior to depositing "hard money" or closing of title.

Environmental due diligence typically begins with the primary due diligence service, the Phase I ESA, which is widely used as the initial level of inquiry into a property. Typically the goal with any Phase I ESA is to determine if Recognized Environmental Conditions (RECs) are present based on visual observations and review of available records and historical information in accordance with ASTM E1527-05. However, understanding our clients' objectives up front allows us to modify the scope of work to identify additional concerns that could impact their development or exit strategy. Langan's services also include: asbestos, lead paint and lead in drinking water, mold, radon and indoor air quality investigations; wetlands and endangered species; regulatory compliance; cultural resources, Phase II ESAs and remedial cost and alternatives evaluations. Langan's approach to environmental due diligence is sound and our clients have successfully used our advice to make informed business decisions for many years.

Green and Sustainable Remediation

Langan is a leader in the practice of Green and Sustainable Remediation (GSR). GSR involves the application of sustainable practices to environmental investigation, remedial feasibility studies, remedial design, and remedy implementation. A GSR approach strikes a balance between economic viability, and impacts the quality of life of the community in which the remediation takes place. A GSR approach considers impacts on a local, regional, and global scale.

Langan has directly applied principles of GSR to projects, producing identifiable benefits and savings for our clients. We have performed remedial system carbon footprints to assist clients evaluating the sustainability of remediation approaches, performed remediation system optimization using GSR principles, assisted clients in reusing construction materials on projects, and incorporated natural alternative remediation alternatives. For example, TreeWells were used for groundwater extraction and practicality and science, economics and sustainability, to do the right thing the right way on projects.

Langan was the first corporate member of the Sustainable Remediation Forum (SURF), a non-profit professional society incorporated in 2010 and devoted to promoting and developing SURF. Responsibilities include leading a committee to identify metrics that can be used to track the sustainability of a remediation project, leading a committee to develop a rating system for verifying the sustainability of a remediation project, serving as the mentor for the Stanford University chapter of SURF, and serving on the SURF Board of Trustees.

Langan is also actively involved in the Interstate Technology Regulatory Council's (ITRC) Green and Sustainable Remediation Task Force. In 2011 and 2012, Langan and ITRC co-sponsored one-day seminars focused on sustainable remediation; bringing together leaders in sustainable remediation across the government, academia, industry, clients, and partners.

Langan's leadership in GSR extends to presenting this topic at industry conferences. Langan personnel have chaired sessions focused on GSR at the Symposium on Bioremediation and Sustainable Environmental Technologies in 2011, and the Conference on Remediation of Chlorinated and Recalcitrant Compounds in 2012. Langan presented numerous platform and poster presentations at these and other conferences, where presentation topics included the demonstration of carbon footprinting for remediation projects, use of carbon footprinting for sustainable decision-making, and case studies of projects that used GSR principles.

As a leader in sustainable design, Langan has over 125 professionals who are LEED Accredited Professionals or LEED Green Associates. We also have personnel accredited as Envision Sustainability Professionals. These accreditations demonstrate our commitment to sustainability of all our professional services.

Remediation Technologies

Innovative Permanent Solutions



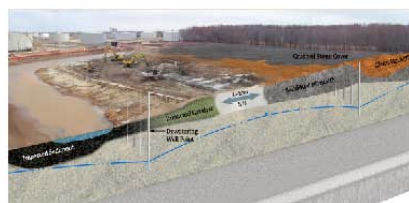
Langan has significant direct hands-on practical experience with innovative remediation technologies. Langan is experienced with remedial process selection, treatability and pilot studies, regulatory approval, remedial design, and remedy implementation. Our staff includes experts on in situ bioremediation, in situ chemical oxidation (ISCO) and solidification/stabilization. We are also experienced with thermal heating, bioaugmentation, phytoremediation, pneumatic fracturing, and zero-valent iron.



Langan works closely with clients to determine the optimal remedial approach for each site. Short-term, long-term and life cycle costs are considered. Future uses of the site and the remediation technology selection, design and implementation. Conventional technologies are always used as a benchmark in our remedial evaluation. Langan considers the proper role of treatability and pilot studies, understanding the up-front costs that these scientific studies represent.

Langan's innovative remediation solutions include:

- ISCO using either permanganate, persulfate or peroxide in overburden and bedrock formations for both chlorinated solvent and gasoline constituents
- Biosparging for the treatment of dissolved phase petroleum hydrocarbons
- Design of innovative containment systems including sheeted excavations and slurry walls and as well as active bioremediation technologies, including bioaugmentation, both for hydrocarbons and chlorinateds
- Experience with in situ hexavalent chromium stabilization, Unique experiences applying stabilization and solidification technologies to chemically and physically improve soil quality for site development, and to eliminate unacceptable exposure to leachable constituents
- Extensive work using American Petroleum Institute (API) subsurface modeling techniques to evaluate separate



Design & Implementation of Remediation Systems

Technical Knowledge and Experience



Langan is a full service organization capable of managing every aspect of any remediation project from the initial investigation to the remedial alternatives evaluation, treatability and pilot studies, remedial design, implementation, and eventual site closure. Langan has vast hands-on experience designing and implementing the following in-situ remedial technologies:

- In-Situ Chemical Oxidation
- Bioremediation
- Air Sparging & Soil Vapor Extraction
- Chemical Reduction and Stabilization
- Multi-Phase Extraction
- Pump & Treat
- Solidification and Stabilization



Langan has designed and built complex process systems.

The site investigation findings lead directly to an evaluation of remedial alternatives. Once a technology has been selected, often a treatability or pilot-scale study is conducted to define the performance of the technology. A full-scale engineering design of the remedy is then developed and implemented. Langan's capabilities allow for "one stop shopping" and provides a cost effective, efficient, and sustainable design and implementation. In many cases, we "design-build" or "self-perform" full scale implementation.

Key Remedy Implementation Projects:

Langan has directly managed a number of significant remedy design and full-scale implementation projects in 2013:

- Injection of thousands of pounds of permanganate to address VOC impacted groundwater in bedrock through an enhanced fracture network.
- An innovative design and implementation of a large air sparge system for treatment of VOCs, SVOCs, and arsenic in a complex geologic setting.
- MPE and SVE systems implementation to remove light non-aqueous phase liquid (LNAPL) from the subsurface at a former manufacturing facility.
- P&T system implementation to prevent the migration of a VOC plume into the pumping zone of a nearby municipal drinking water supply well.

Ecological Risk Assessment

Experts in Ecosystems

Langan's ecological risk assessment staff is experienced with properly identifying ecologically relevant contaminants, environmentally sensitive natural resources, and impacts to ecological receptors. Our scientifically-designed ecological field studies use assessment and measurement tools that effectively evaluate the bioavailability of contaminants due to ecological exposures. Pairing these skills with our expertise in environmental engineering and remediation, sustainable habitat restoration, natural resource permitting, and site development has allowed Langan to provide cutting edge sustainable solutions that help protect ecosystems as well as human health.

Langan Ecological Risk Assessment Services:

- Screening Level Ecological Risk Assessments
- Ecological Risk Assessment
- Wildlife Exposure Modeling
- Sediment Characterization
- Biomonitoring
- Bioavailability Assessments
- Wildlife Habitat Assessments
- Threatened and Endangered Species Surveys
- Natural Resource Damage Assessment
- Habitat Restoration and Sustainable Design
- GIS/Database Management
- Wetland Delineation
- Environmental Impact Statements
- Streambank Restoration
- Remediation Design/Oversight
- Environmental Assessments
- Site Characterization
- Management of PCB-Containing Materials
- Human Health Risk Assessment
- Site Feasibility Studies
- Remediation by Natural Attenuation



In-Situ Soil Stabilization/Solidification



Technical and Regulatory Knowledge

Langan has substantial experience in soil remediation using in-situ soil stabilization/solidification (ISS) technology. This specialized knowledge is critical to the efficient preparation of design documents and successful implementation of ISS remediation technology to address metals, PCBs, volatile and semi-volatile organic compounds in soil and sediment. We are illustrating our relevant experience by providing several brief project descriptions in the following pages, which represent a subset of our work in specific areas of interest.



Langan Environmental Services:

- Site Characterization
- Groundwater Sampling and Monitoring
- Vapor Mitigation
- Remedial Selection and Treatability/Bench-scale Testing
- Construction Plans & Specifications
- Wetland Permitting
- Remedial Construction Bidding
- Construction Oversight
- Remedial Design
- Construction Management and Oversight
- Closure Documentation and Reporting



Sediment Characterization and Remediation

Dredging through Complexities

Langan maximizes our service capabilities to provide multi-disciplined approaches toward sediment characterization and remediation. Our engineers and scientists have extensive knowledge of the biological, chemical, and physical mobility of contaminants in sediment and the effect of other mechanistic influences on sediment mobility. Langan's understanding of these sediment functions is a critical element to our ability to successfully design and implement complex and innovative sediment investigations and remediation projects in various types of waterways and wetland settings. Our integrated team approach toward sediment remediation has allowed us to restore the health of sediments based on sustainable risk management strategies, yielding immediate and long-term benefits.

Langan Sediment Characterization and Remediation Services:

- Sediment Investigations
- Sediment Remediation
- Environmental Engineering
- Hydrological Testing
- Fate and Transport Modeling
- Structural Design
- Permitting/Regulatory Approvals
- Low Impact Stormwater Design
- Streambank Restoration
- Environmental Assessment
- Remediation Design/Oversight
- Green Remediation
- Bioengineering Design
- Feasibility Analysis
- Soil Erosion and Sediment Control Planning
- Habitat Restoration and Sustainable Design
- GIS/Database Management
- Wetland Delineation

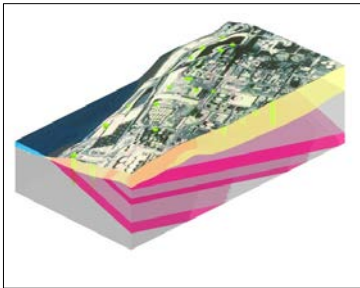
Specialty Chemical/ Petrochemical

Two Decades Tackling Challenges



Due to the high demand for petroleum products and strict regulation of the petroleum industry, it is a challenge for environmental managers to achieve their remedial objectives while complying with ever-changing regulations. Langan has a proven history of helping petroleum managers achieve their objectives at complex sites by developing remedial programs that focus on compliance and risk-based remedial decisions.

Our team of petroleum specialists includes professional geologists, hydrogeologists, engineers and compliance specialists that have been serving the specialty chemical and petroleum industries for two decades. This core team is complemented by an array of in-house services that include site/civil, geotechnical, and natural resource engineering. These broad capabilities allow us to maintain the creativity and technical knowledge required to solve environmental and engineering problems at challenging petroleum sites.



Our Petroleum Services include:

- Site Investigation & Characterization
 - Geologic and Hydrogeologic Characterization
 - Expedited Site Characterization
 - Groundwater and Soil Sampling
 - Comprehensive Database and GIS Development & Management
 - Groundwater, LNAPL and Surface Water Modeling
 - Detailed Site Conceptual Model Development
- Remediation Engineering
 - Remedial Cost & Feasibility Analysis
 - Bench and Pilot-Scale Remedial System Evaluations
 - NAPL Recoverability Testing
 - Groundwater/NAPL Recovery System Selection, Design and Optimization
 - Remedial System Performance Evaluations
 - Lagoon Investigation and Closure
- Regulatory Compliance
 - RCRA Corrective Action and Environmental Indicators
 - Clean Air Act Compliance (Title V, MACT, RACT, NESHAPs)
 - Toxic Release Inventory Reporting (Form R & A)
 - Groundwater Protection Program Plans
 - Soil Reuse Plan Development



Sustainable Design

LEEDing the Way

With more than **125 LEED APs** on staff, sustainable design weaves through all Langan services. Our diverse portfolio of intelligent site planning, design, and engineering coupled with our Brownfield and site remediation expertise places us at the forefront of the sustainable design movement.

Langan has been an instrumental player on dozens of Leadership in Energy and Environmental Design (LEED) and sustainable design projects. Our expertise allows us to make significant contributions in developing sustainable sites with an emphasis on stormwater management, low impact landscapes, brownfield redevelopment, materials recycling, energy conservation, and renewable energy design.

Langan Sustainable Design Services:



- LEED Site Feasibility Analysis
- Air Quality Assessments
- Asbestos Assessment and Abatement
- Lead-based Paint and Mold Removal
- Ecological Wastewater Treatment Design
- Low Impact Stormwater Design / Master Planning
- Brownfield Redevelopment
- Green Roof Design
- High Efficiency Site Lighting and Irrigation Design
- Streambank Restoration and Bioengineering Design
- Baseline Ecological Evaluations
- Wildlife and Habitat Evaluations
- Wetland Delineation, Design and Mitigation
- Urban Design and Regeneration Planning
- Geothermal Feasibility Studies and System Design Support

Geotechnical

Foundations You Can Trust



Langan was founded as a geotechnical consulting company in 1970, and geotechnical engineering remains a core discipline at Langan today. We work closely with our clients and the design and construction team to engineer cost-effective geotechnical solutions appropriate for proposed structures and the governing site conditions.



Our reputation as a premier geotechnical consultant has been earned by managing hundreds of projects involving complex, technically challenging sites where highly specialized site preparation, foundations, and fast-track engineering solutions are required.

Langan Geotechnical Services:

- Subsurface Investigations
- Foundation Design
- Materials Analysis
- Soil and Rock Mechanics
- Retaining Structures
- Slope Stabilization
- Soil Improvement/
Ground Modification
- Dewatering Design and
Permitting
- Subsurface Structure
Design
- Excavation Support and
Underpinning Design
- Earthquake/Seismic
- Geological Mapping of
Rock Slopes
- Mine Investigations/
Studies
- Hydrogeology
- Earth and Rock Fill Dams
- Tunnels/Microtunneling
- Seawalls, Piers and
Bulkheads
- Dredging
- Vibration Monitoring
- Pre-Construction
Conditions Surveys
- Value Engineering
- Construction Documents
- Contractor Support
Services
- Engineering Services
During Construction
- Forensic Engineering/
Expert Testimony
- Cost Estimates



Site/Civil

Responsiveness that Delivers Results



As an integral component of the design team, Langan works closely with the owner to develop conceptual site plans and realistic cost estimates. Our deadline-oriented professionals are available to our clients 24/7 to ensure timely approvals and permits to advance projects toward construction, occupancy, and ultimately revenue. Langan also supports projects with construction inspection and overall project management.

Langan Site/Civil Services:



- Project Management
- Site Feasibility Studies
- Conceptual Planning
- Site Engineering & Grading & Drainage Design
- Stormwater Management Design
- Value Engineering
- Sanitary Treatment Plant Design
- Utility Infrastructure Design
- Water Supply/Hydrological Investigations
- Permitting/Regulatory Compliance
- Wetland Delineation/Mitigation
- Landscape Architecture
- Regulatory Negotiation
- Survey-Boundary/Topographical/GPS
- Traffic/Transportation Engineering
- Waterfront Systems Design
- Property Acquisition Support
- Conceptual Reuse Planning
- Funding Identification/Grant Assistance
- Regulatory Coordination/Compliance
- Decommissioning/Demolition Design
- Construction Management
- Construction Inspection
- CADD/GIS/Computer Animations
- SITEOPS® Optimization Services

Similar Experience

Solving Challenging Technical Issues



We have provided environmental engineering services similar to those requested by the City of Fort Lauderdale. Langan's full-service environmental and civil engineering capabilities include stormwater, assessment, environmental site assessments, site-wide hydrogeological characterizations, soil and groundwater remediation system design, regulatory advocacy and support, environmental permitting and compliance, and project and contractor management. We pride ourselves on solving challenging technical and regulatory problems in a manner that is protective of the environment and is acceptable to the regulatory agencies, while maintaining a focus on cost and practical solutions.

Some of our public-agency clients have included:

- The City of Hollywood – HIAD
- The City of Pompano Beach
- The City of Lauderhill
- The City of Coconut Creek
- The Monroe County Solid Waste Management Division
- The City of Homestead
- The Miami-Dade Department of Regulatory and Economic Resources
- The Government of Bermuda
- The Miami-Dade Aviation Department
- The City of Miami Beach
- The City of Miami
- The Florida Department of Environmental Protection – South, Southwest, and Southeast Districts
- The South Florida Water Management District

Sustainable Business Practices

Fostering Positive Change



With over 100 Leadership in Energy and Environmental Design Accredited Professionals (LEED APs and GAs) on staff, sustainable design weaves through all Langan services. Our diverse portfolio of intelligent site planning, design, and engineering coupled with our of the sustainable design movement. Langan has been an instrumental player on dozens of LEED and sustainable design projects. Our expertise allows us to make significant contributions in developing sustainable sites with an emphasis on stormwater management, low impact landscapes, brownfield redevelopment, sustainable remediation, materials recycling, energy conservation, and renewable energy design. Langan's technical services involve best practices that lead to a sustainable future. We believe that individuals and organizations will thrive in a future built on the principles of sustainability.

We are committed to helping build that future through our technical expertise in sustainable matters, as well as our internal operations and corporate environmental stewardship.

To support Langan's corporate sustainability vision, we are setting measurable goals that correspond with our company's core values and the three pillars of sustainability: financial, environmental, and social. We have already accomplished a lot and now we are taking Langan's Sustainability Program to the next level by making it an integral part of our corporate culture. Such integration will require specific commitments within the three pillars of sustainability which can be further reviewed in the Langan Corporate Sustainability Plan, under Appendix 1.

Firm Licenses

State of Florida Department of State

I certify from the records of this office that LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES, INC. is a New Jersey corporation authorized to transact business in the State of Florida, qualified on March 16, 1993.

The document number of this corporation is F93000001369.

I further certify that said corporation has paid all fees due this office through December 31, 2015, that its most recent annual report/uniform business report was filed on February 5, 2015, and its status is active.

I further certify that said corporation has not filed a Certificate of Withdrawal.

Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Fifth day of February, 2015



Ken Detmmer
Secretary of State

Authentication ID: CC9048579238

To authenticate this certificate, visit the following site, enter this ID, and then follow the instructions displayed.

<https://efile.sunbiz.org/certauthver.html>



State of Florida
Board of Professional Engineers
2639 North Monroe Street, Suite B-112
Tallahassee, FL 32303-5268

Langan Engineering And Envir Svcs Inc
15150 NW 79TH COURT STE. 200
PARKSIDE CORPORATE CENTER
MIAMI, FL 33016

Each licensee is solely responsible for notifying the Florida Board of Professional Engineers in writing the licensee's current address.

Name changes require legal documentation showing name change. An original, a certified copy, or a duplicate of an original or certified copy of a document which shows the legal name change will be accepted unless there is a question about the authenticity of the document raised on its face, or because the genuineness of the document is uncertain, or because of another matter related to the application.

At least 90 days prior to the expiration date shown on this license, a notice of renewal will be sent to your last known address. If you have not yet received your notice 60 days prior to the expiration date, please call (850) 521-0500, or write, Florida Board of Professional Engineers, 2639 North Monroe Street, Suite B-112, Tallahassee, FL 32303-5268 or e-mail: board@fbpe.org. Our website address is <http://www.fbpe.org>.

State of Florida

Board of Professional Engineers

Attest that

Langan Engineering And Envir Svcs Inc



is authorized under the provisions of Section 471.023, Florida Statutes, to offer engineering services to the public through a Professional Engineer, duly licensed under Chapter 471, Florida Statutes.

Expiration: 2/28/2017
Audit No: 228201702299

CA Lic. No:
6601

JKL006

Local Business Tax Receipt

Miami-Dade County, State of Florida

-THIS IS NOT A BILL - DO NOT PAY

2904689

BUSINESS NAME/LOCATION
LANGAN ENGINEERING & ENVIRONMENTAL SERVICES, INC.
15150 NW 79 CT 200
MIAMI LAKES FL 33016

RECEIPT NO.
RENEWAL
570870

LBT

EXPIRES
SEPTEMBER 30, 2015

Must be displayed at place of business
Pursuant to County Code
Chapter 8A - Art. 9 & 10

OWNER
LANGAN ENGR & ENVIRO SVCS INC
Employee(s) 1

SEC. TYPE OF BUSINESS
212 P.A./CORP/PARTNERSHIP/FIRM
EB6601

PAYMENT RECEIVED
BY TAX COLLECTOR
\$45.00 08/07/2014
CHECK21-14-045856

This Local Business Tax Receipt only confirms payment of the Local Business Tax. The Receipt is not a license, permit, or a certification of the holder's qualifications, to do business. Holder must comply with any governmental or nongovernmental regulatory laws and requirements which apply to the business.

The RECEIPT NO. above must be displayed on all commercial vehicles - Miami-Dade Code Sec 8a-276.

For more information, visit www.miamidade.gov/taxcollector

Congratulations! With this license you become one of the nearly one million Floridians licensed by the Department of Business and Professional Regulation. Our professionals and businesses range from architects to yacht brokers, from boxers to barbeque restaurants, and they keep Florida's economy strong.

Every day we work to improve the way we do business in order to serve you better. For information about our services, please log onto www.myfloridalicense.com. There you can find more information about our divisions and the regulations that impact you, subscribe to department newsletters and learn more about the Department's initiatives.

Our mission at the Department is: License Efficiently. Regulate Fairly. We constantly strive to serve you better so that you can serve your customers. Thank you for doing business in Florida, and congratulations on your new license!



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND
PROFESSIONAL REGULATION

GB401 ISSUED: 07/28/2014

GEOLOGY BUSINESS
LANGAN ENGINEERING & ENVIRONMENTAL SERVICES, INC.

IS CERTIFIED under the provisions of Ch. 492 F.S.
Expiration Date: JUL 31, 2016 L1407280001729

DETACH HERE

RICK SCOTT, GOVERNOR

KEN LAWSON, SECRETARY

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL GEOLOGISTS

LICENSE NUMBER
GB401

The GEOLOGY BUSINESS
Named below IS CERTIFIED
Under the provisions of Chapter 492 F.S.
Expiration date: JUL 31, 2016

LANGAN ENGINEERING & ENVIRONMENTAL SERVICES, INC.
RIVER DR. CENTER I
ELMWOOD PARK NJ 074070000

ISSUED: 07/28/2014

DISPLAY AS REQUIRED BY LAW

SEQ # L1407280001729



EXHIBIT 8
15-1171

36 of 142

ARCHITECT – ENGINEER QUALIFICATIONS

PART I – CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION *(City and State)*
General Environmental Engineering Services

2. PUBLIC NOTICE DATE
June 04, 2015

3. SOLICITATION OR PROJECT NUMBER
256-11587

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE
Vincent Yarina, PG, CEM, Senior Associate/Vice President

5. NAME OF FIRM
Langan Engineering and Environmental Services, Inc. Fort Lauderdale, Florida

6. TELEPHONE NUMBER
954.320.2100

7. FAX NUMBER
954.320.2101

8. E-MAIL ADDRESS
vyarina@langan.com

C. PROPOSED TEAM

(Complete this section for the prime contractor and all key subcontractors.)

<i>(Check)</i>				9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	J.V. PARTNER	SUBCONTRACTOR			
a.	X			Langan Engineering and Environmental Services, Inc. <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	110 E. Broward Boulevard Suite 1500 Fort Lauderdale, FL 33301	Environmental Engineering
b.			X	ARS Environmental, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	10097 Cleary Boulevard, #305 Plantation, FL 33324	Radon Site Testing, Assessment and Remediation Plans
c.			X	The Chappell Group, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	714 E McNab Road Pompano Beach, FL 33060	Endangered Species Evaluation and relocation, Wetland Delineations, HUD/NEPA Assessments and Remediation Plans, Benthic Surveys, Wetlands and Wetlands Landscape Design
d.			X	Engineered Environmental Solutions, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	601 N East Coast Avenue Lantana, FL 33462	Storage tank contamination testing and evaluation
e.			X	Envirodrill, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	6900 SW 21 Court, Suite 13 Davie, FL 33317	Environmental drilling
f.			X	The Goldstein Environmental Law Firm <input type="checkbox"/> CHECK IF BRANCH OFFICE	One SE Third Avenue, Suite 2120 Miami, FL 33131	Environmental/social justice evaluations, Ordinance and guideline review and development, compliance with regulation and ordinances
g.			X	Pace Analytical Services, Inc. <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	3610 Park Central Boulevard N. Pompano Beach, FL 33064	Environmental sampling and analytical services

D. ORGANIZATIONAL CHART OF PROPOSED TEAM

☒ *(Attached)*

AUTHORIZED FOR LOCAL REPRODUCTION

STANDARD FORM 330 (6/2004)

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>			20. EXAMPLE PROJECT KEY NUMBER 1	
21. TITLE AND LOCATION <i>(City and State)</i> Fort Lauderdale/Hollywood International Airport, T-4 Remediation, Fort Lauderdale, Florida			22. YEAR COMPLETED PROFESSIONAL SERVICES 2015	
			CONSTRUCTION (if applicable) 2015	
23. PROJECT OWNER'S INFORMATION				
a. PROJECT OWNER James A. Cummings, Inc.		b. POINT OF CONTACT NAME Mike Lanciault		c. POINT OF CONTACT TELEPHONE NUMBER 954.733.4211
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i> Langan provided geotechnical and environmental services during utility construction in a petroleum-impacted area near the western gate of Fort Lauderdale/Hollywood International Airport. Services included: <ul style="list-style-type: none"> • Characterizing soil before excavation to determine which soil can be reused and which soil must be removed for off-site disposal • Providing a geotechnical evaluation of soil conditions; • Developing a comprehensive work plan for the entire project • Developing a baseline of groundwater quality in advance of construction • Abandoning monitoring wells in the construction footprint • Observing the removal and segregation of impacted soil • Sparging the open excavation to remove volatile petroleum compounds • Reinstalling and sampling monitoring wells after construction 			 	
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT				
a.	(1) FIRM NAME Langan Engineering & Environmental Services	(2) FIRM LOCATION <i>(City and State)</i> Miami Lakes, Florida	(3) ROLE Work Plan Development, Geotechnical Evaluation of Soil Conditions, Soil Pre-Characterization, Well Installation & Abandonment, Open-excavation Air-sparging, Environmental Observation During Construction.	

STANDARD FORM 330 (6/2004)



F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 2	
21. TITLE AND LOCATION <i>(City and State)</i> Border Patrol at Dania Beach City of Dania Beach, Florida		22. YEAR COMPLETED PROFESSIONAL SERVICES 2006-2009	
		CONSTRUCTION (if applicable) 2009	
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER WSSA Florida, LLC		b. POINT OF CONTACT NAME John Sabty	
		c. POINT OF CONTACT TELEPHONE NUMBER 810.239.1551	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>			
<p>The Border Patrol at Dania Beach is a privately owned commercial building, designed for the lease and use of the Department of Homeland Security. The project site encompasses 4.4 acres and is located in the City of Dania Beach, Broward County, Florida, directly east of the Ft. Lauderdale-Hollywood International Airport. The facility consists of a 30,000 square foot building with associated parking and infrastructure.</p> <p>Langan provided all major engineering services for this project including site/civil engineering & permitting, natural resources permitting, and geotechnical and environmental services.</p> <p>Langan prepared the site plan; utility plans; paving, grading, and drainage plans; and coordinated the preparation of the plat, landscape plan, and lighting plan. Langan also coordinated the project approval with the client, other consultants, attorneys, and government officials.</p> <p>This project's extensive filling of wetlands required close coordination between Langan's geotechnical engineers, environmental engineers and natural resources permitting specialists. Geotechnical challenges included monitoring of the import fill operations so that the finished subgrade was suitable for supporting the building and the site improvements. Much of the imported fill was recycled construction waste and Langan provided the environmental oversight to ensure contaminated materials were not being brought onto the property.</p> <p>Langan's permitting specialists accomplished the complex wetland permitting. The site is located in a tidal floodplain, and mangrove wetlands within much of the development area. Langan conducted a Phase I Environmental Site Assessment along with a wetland delineation of the site.</p> <p>A major challenge in the project was to get approval to fill 4.4 acres of mangroves. In addition to the application for a permit under Sec. 404, Federal Clean Water Act, and a Wetland Resource License from Broward County, Langan also prepared a detailed alternative analysis and public interest guidelines. Langan also evaluated the wetland impact and computed mitigation required according to state guidelines. In the absence of suitable areas for off-site mitigation within Broward County, Langan proposed using the Everglades Mitigation Bank to obtain the credits required to mitigate the unavoidable impact to the existing habitat.</p> <p>Langan performed a subsurface investigation and prepared a thorough engineering report addressing site preparation procedures, ground improvement options, cost comparisons, and foundation recommendations for efficient cost-effective support of this proposed structure and site infrastructure.</p>			
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a. (1) FIRM NAME Langan Engineering & Environmental Services	(2) FIRM LOCATION <i>(City and State)</i> Miami Lakes, Florida	(3) ROLE Site/Civil Engineering; Geotechnical Engineering; Environmental Engineering; Natural Resources; Permitting	

STANDARD FORM 330 (6/2004)

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 3	
21. TITLE AND LOCATION <i>(City and State)</i> MANDELA PARKWAY Oakland, California		22. YEAR COMPLETED PROFESSIONAL SERVICES 2010	
		CONSTRUCTION (if applicable)	
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER Balco Properties		b. POINT OF CONTACT NAME Reed Westphal	
		c. POINT OF CONTACT TELEPHONE NUMBER 510.663.6184	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i> <p>The project site contained a leaking fuel underground storage tank resulting in free product and groundwater impacts in clay soils beneath a large existing commercial building. Years of attempted recovery of the free product left the site no closer to a long-term strategy or site closure.</p> <p>Langan prepared a conceptual site model and risk assessment for the site in support of an evaluation of remedial alternatives. Upon evaluation of remedial alternatives, Langan developed a recommended plan for long-term containment of impacted media and prepared a Feasibility Study and Corrective Action Plan (FS/CAP) for submittal to the county regulators.</p> <p>Remediation of soil under the existing building and in clay soils would have presented a major challenge, both in terms of implementation and financially. Through diligent research and analysis, Langan demonstrated that all major risk pathways to potential human and environmental receptors were incomplete and proved that the most environmentally-favorable approach was not remediation, but rather long-term containment.</p> <p>Langan performed a sustainability analysis and a greenhouse gas model ("carbon footprint") in support of the recommended approach. The analysis indicated that the containment approach exhibited significantly reduced greenhouse gas emissions while maintaining risk within acceptable levels as compared to the other alternatives considered.</p>			
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Langan Engineering & Environmental Services	(2) FIRM LOCATION <i>(City and State)</i> Miami Lakes, Florida	(3) ROLE Site/Civil Engineering; Geotechnical Engineering; Environmental Engineering; Natural Resources; Permitting

STANDARD FORM 330 (6/2004)


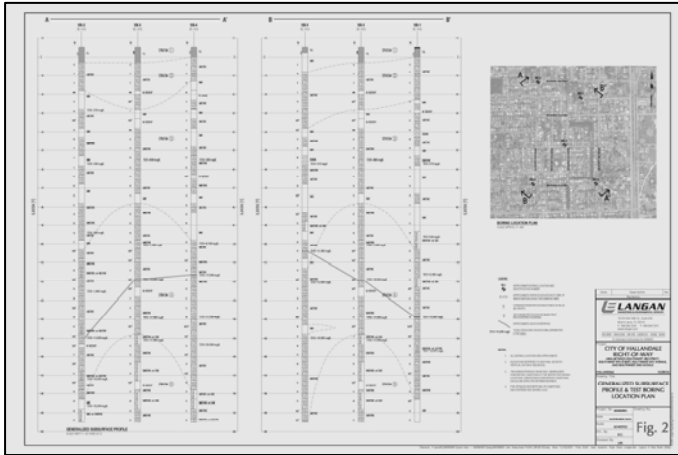
F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 4	
21. TITLE AND LOCATION <i>(City and State)</i> 321 Development Project (Former Fashion Mall), Plantation, Florida		22. YEAR COMPLETED PROFESSIONAL SERVICES 2010	
		CONSTRUCTION (if applicable) N/A	
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER US Capital Holdings Group	b. POINT OF CONTACT NAME Jerry Jiang	c. POINT OF CONTACT TELEPHONE NUMBER 954.693.8880	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>			
<div style="display: flex;"> <div style="flex: 1;">  </div> <div style="flex: 3;"> <p>Langan provided asbestos consulting services for US Capital Holdings Group prior to the planned renovation of the three-level mall complex which includes former Lord & Taylor and Macy's department stores, parking garages and seven-story executive office building that was constructed in the early to mid 1980s. The client planned to renovate the entire mall complex in multiple phases.</p> <p>Langan performed a pre-renovation asbestos survey for the entire mall complex, including the department stores and office building. The purpose of the asbestos survey was to identify the presence, condition and extent of asbestos-containing material (ACM) in accessible areas of the facility. The pre-renovation asbestos survey was intended to meet the NESHAP (10-day) notification requirement and local building permitting requirements prior to conducting any planned renovation. Our certified asbestos inspector identified approximately 36,000 ft² of non-friable ACM throughout the facility.</p> <p>Langan also assisted the client in selecting an asbestos abatement contractor and provided FL Administrative Code mandated independent asbestos abatement project monitoring throughout the initial phase of the planned renovation of the property. This service consisted of preparing a work plan, full-time inspection by Langan's AHERA certified project monitors of the asbestos removal activities, air testing, and preparing closure reports in compliance with federal regulations for asbestos, such that the asbestos abated areas can be re-occupied.</p> <p>Langan also assisted the abatement contractor in developing an abatement strategy for the removal of the mirror mastic from elevator bank exterior walls that were approximately 50-feet in height.</p> </div> </div>			
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a. (1) FIRM NAME Langan Engineering & Environmental Services, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Miami Lakes, Florida	(3) ROLE Asbestos Survey; Asbestos Abatement Monitoring	

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 5		
21. TITLE AND LOCATION <i>(City and State)</i> Homestead City Hall Homestead, Florida		22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2008</td> <td>CONSTRUCTION (if applicable) N/A</td> </tr> </table>	PROFESSIONAL SERVICES 2008	CONSTRUCTION (if applicable) N/A
PROFESSIONAL SERVICES 2008	CONSTRUCTION (if applicable) N/A			
23. PROJECT OWNER'S INFORMATION				
a. PROJECT OWNER City of Homestead	b. POINT OF CONTACT NAME Ana Alvarez, City of Homestead Public Works and Engineering Department	c. POINT OF CONTACT TELEPHONE NUMBER 305.224.4772		
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i> <p>The Homestead City Hall project consists of a new 3-story, approximately 80,000-SF building housing the administrative facilities for the City of Homestead Municipal Government, including a 230-seat auditorium and council chambers. The project also includes an open plaza and new surface parking lots.</p> <p>Langan performed Phase I and Phase II Environmental Site Assessments (ESA) as part of an on-going continuing services contract with the City of Homestead. The Phase I ESA identified some potential environmental concerns associated with both on-site and off-site recognized environmental conditions. A limited Phase II ESA was performed to evaluate the potential impact to the site from these conditions.</p> <p>Langan also performed a subsurface investigation and provided foundation recommendations for the design of the new facilities. Economical shallow spread footing foundations were recommended for support of the structure. In addition, percolation tests were performed to obtain the soil permeability data required for the design of the stormwater drainage system.</p>				
<div style="display: flex; justify-content: space-around;">   </div>				
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT				
a. (1) FIRM NAME Langan Engineering & Environmental Services, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Miami Lakes, FL	(3) ROLE Phase I and Phase II Environmental Site Assessments (ESA); Geotechnical Subsurface Investigation; Geotechnical Engineering and Foundation Recommendations		

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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 6			
21. TITLE AND LOCATION <i>(City and State)</i> Fontainebleau Hotel Environmental, Asbestos, and Geotechnical Services Miami Beach, Florida		22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2009</td> <td>CONSTRUCTION (if applicable) 2009</td> </tr> </table>		PROFESSIONAL SERVICES 2009	CONSTRUCTION (if applicable) 2009
PROFESSIONAL SERVICES 2009	CONSTRUCTION (if applicable) 2009				
23. PROJECT OWNER'S INFORMATION					
a. PROJECT OWNER Fontainebleau Hotel, LLC	b. POINT OF CONTACT NAME Leo Carrillo	c. POINT OF CONTACT TELEPHONE NUMBER 786.276.1315			
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i> <p>This renovation and expansion project at the famous Fontainebleau Resort in Miami Beach, FL began in 2002 and was completed by the end of 2009. Langan provided integrated cost effective foundation and site preparation recommendations for this billion dollar project including environmental, geotechnical, and asbestos services. On-site technical support and testing services prior to and during construction throughout the almost 1,000,000 sf of floor space comprised a four-story convention center; 15 and 17-story towers; two, 10-story structures; three levels of the fully-occupied Fontainebleau Hilton Hotel Chateau Building; and host of ground-level amenity features that included a shopping mall, restaurants, resort back-of-house areas, spa facility, and dinner theater.</p>  <p>A Phase I and Phase II Environmental Site Assessment (ESA) was also conducted at this hotel-resort property. As part of this ESA, a geophysical investigation was performed to map the existence of utility lines, foundations, or other buried structures. Additionally, Langan conducted asbestos surveys of the entire property to meet permit and regulatory requirements for existing on-site structures planned for renovation and demolition. The surveys consisted of detailed mapping and cataloging of asbestos-containing material (ACM) throughout the property. Langan assisted the building owner with demolition permitting, abatement contractor selection, and regulatory issues regarding proper project notification and asbestos removal. The approximate cost of removing the ACM was \$3M.</p> <p>Langan also provided, Florida Administrative Code mandated, independent asbestos abatement project monitoring and provided final closure reports to regulatory agencies to validate that the asbestos abated areas were ready for reoccupancy. This service consisted of full-time inspections conducted by Langan's AHERA-certified project inspectors during the demolition and renovation of all structures and included asbestos removal activities, air quality testing, and area closure activities. Langan proactively worked with the building owner and was responsive such that the abatement was completed properly and according to the planned construction schedule for this massive project.</p>  <p>Geotechnical services included designs and recommendations for dewatering foundation excavations, which required close coordination with the environmental team to assure subsurface contaminants from on-site and off-site concerns were appropriately mitigated. The geotechnical engineering study of the 36-story tower evaluated the use of long and short augercast piles for foundation support necessary to successfully coordinate the connection between the tower and an adjoining 6-level podium and 2-level garage. Langan's comprehensive and innovative pile load testing program and evaluation of the results of the load test led to further shortening of the piles.</p> <p>Complementary coastal and environmental regulatory consulting services addressed mandatory permitting requirements in accordance with Florida Department of Environmental Protection (FDEP). This required close coordination with the architects, owner, and FDEP to assure that the design and construction of structures and hardscapes east of the Coastal Construction Control Line (CCCL) were in compliance with FDEP coastal regulations.</p>					
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT					
a. (1) FIRM NAME Langan Engineering & Environmental Services, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Miami Lakes, Florida	(3) ROLE Environmental and Geotechnical Engineering; Asbestos Services			

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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 7		
21. TITLE AND LOCATION (City and State) City of Hallandale Beach Hydrogeological Services Hallandale Beach, Florida		22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES Ongoing</td> <td>CONSTRUCTION (if applicable)</td> </tr> </table>	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable)
PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable)			
23. PROJECT OWNER'S INFORMATION				
a. PROJECT OWNER City of Hallandale Beach	b. POINT OF CONTACT NAME Shaun Bamforth Calvin, Giordano and Associates, Inc.	c. POINT OF CONTACT TELEPHONE NUMBER 954.921.7781		
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>				
<p>Langan provided hydrogeological services in support of the city's plan to install pressurized right-of-way stormwater drainage wells to alleviate street flooding. Langan's scope of work included supervising five 150-ft. test holes in the 120-acre Northeast Quadrant project area and five 200-ft. test holes in the 120-acre Southwest Quadrant project area; evaluating geology and water quality (total dissolved solids); and performing a specific capacity test in potential production zones in the Southwest Quadrant project area. Langan completed both project areas and provided reasonable assurance reports that met the requirements of Chapter 62-528, Florida Administrative Code, as part of the permit package for the new stormwater drainage wells.</p> <p>Langan determined that the geological and total dissolved solids data in the Northeast Quadrant provided reasonable assurance that properly constructed production wells cased to -80 ft. NGVD on the eastern side of the project area, to -100 ft. NGVD in the central portion of the project area, and to -120 ft. NGVD on the western side of the project area would meet the criteria for reasonable assurance. Langan's minimum well casing depth for the Southwest Quadrant ranged from -170 ft. NGVD on the northeastern and northwestern sides of the project area, to -140 ft. NGVD in the central portion of the project area, and to -135 ft. NGVD on the southeastern side.</p> <p>The specific capacity test consisted of pumping groundwater, and monitoring the flow rate, the drawdown, and the elapsed time. Langan recommend a design flow rate of 130 gallons per minute per foot of head for the Southwest Quadrant area.</p> <p>Initial Construction Estimate: N/A Initial Contract Award: N/A Total Number of Change Orders: N/A Total Value of Change Orders: N/A Amount of Initial Design Fees Associated with the Project: \$136,000 Change Orders to Design Contract and Total Value: None/\$136,000</p>				
<div style="display: flex; justify-content: space-around;">   </div>				
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT				
a.	(1) FIRM NAME Langan Engineering & Environmental Services	(2) FIRM LOCATION (City and State) Miami Lakes, Florida		
		(3) ROLE Environmental Engineering		

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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 8	
21. TITLE AND LOCATION <i>(City and State)</i> Pompano Beach Municipal Golf Course Pompano Beach, Florida		22. YEAR COMPLETED PROFESSIONAL SERVICES 2011	
		CONSTRUCTION (if applicable) N/A	
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER City of Pompano Beach	b. POINT OF CONTACT NAME Alessandra Delfico	c. POINT OF CONTACT TELEPHONE NUMBER 954.786.4144	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i> <p>The City of Pompano Beach Municipal Golf Course is considered by Broward County EPD to be a contaminated site in which soil and groundwater are contaminated with arsenic; the site has been undergoing assessment and evaluation for a number of years.</p> <p>The city contracted Langan to help negotiate a final closure plan for the contamination. Langan collected soil and groundwater samples to determine the current status of the contamination. Langan completed a statistical evaluation of the soil sample data in an effort to reduce the amount of contaminated soil to be removed for disposal. Based on the evaluation, Langan was able to prepare a No Further Action with Conditions Plan under Chapter 62-782.680(2), Florida Administrative Code (Risk Management Option II), which proposed limiting contaminated soil removal to three locations in the maintenance facility area. EPD approved the source removal plan and requested additional groundwater delineation at the property boundary with the municipal airport.</p> <p>The city then asked Langan to complete the source removal and groundwater delineation, which is now in progress under a separate purchase order.</p>			
			
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a. (1) FIRM NAME Langan Engineering & Environmental Services	(2) FIRM LOCATION <i>(City and State)</i> Miami Lakes, Florida	(3) ROLE Environmental Engineering	

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 9	
21. TITLE AND LOCATION <i>(City and State)</i> Marlins Ballpark and Parking Garages Miami, Florida		22. YEAR COMPLETED PROFESSIONAL SERVICES 2009 CONSTRUCTION (if applicable) 2011	
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER Florida Marlins, LP/Hunt Moss JV		b. POINT OF CONTACT NAME Pat Delano c. POINT OF CONTACT TELEPHONE NUMBER 305.325.0577	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>			
<p>The project involved the construction of the Marlins Ballpark and surrounding four parking garages. The site, the former Orange Bowl, was contaminated by arsenic in the soil and groundwater. The groundwater was very shallow and required dewatering to enable construction. Excavations were to occur in the Miami Limerock, which is highly permeable but not suitable for many methods of dewatering.</p> <p>Multiple contractors retained Langan to provide dewatering design and permitting services for multiple phases of the foundation and utility construction at the entire project site. Langan designed a construction dewatering system that treated the highly turbid dewatering effluent for both suspended solids and arsenic. The system consisted of open sump pumps that were pumped into on-site exfiltration trenches or deep wells.</p> <p>Langan permitted the dewatering system with the Miami Dade County Department of Environmental Resources Management and South Florida Water Management District. The team also permitted the use of drainage wells to receive the effluent with the Florida Department of Environmental Protection. In addition, Langan provided consultation and testing services regarding the management of on-site contaminated soils and imported fill. Langan's services allowed the project begin on time and the system worked successfully, allowing dewatering to continue without ceasing for permit violations. The work was conducted on a highly accelerated schedule to comply with Major League Baseball's opening day requirements.</p>		 <p>Photo Courtesy of David Brantlev</p>	
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Langan Engineering & Environmental Services	(2) FIRM LOCATION <i>(City and State)</i> Miami Lakes, Florida	(3) ROLE Construction Dewatering Consultation, Design & Permitting, Environmental Consulting, NPDES Stormwater Permitting

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 10	
21. TITLE AND LOCATION <i>(City and State)</i> Elan 1640 (aka Auto Toy Store – Alpine Jaguar) Fort Lauderdale, Florida		22. YEAR COMPLETED PROFESSIONAL SERVICES 2104	
		CONSTRUCTION (if applicable) 2015	
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER Prudential Real Estate Investors		b. POINT OF CONTACT NAME Grant Rogers	
		c. POINT OF CONTACT TELEPHONE NUMBER 404.704.3786	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i> <p>The Project is the development of a 4.5-acre mixed-use apartment complex along Sunrise Blvd near downtown Fort Lauderdale. Langan was contracted to perform a Phase I Environmental Site Assessment (ESA) and Geotechnical Engineering Study during the Due Diligence phase of the acquisition. The Phase I ESA identified numerous environmental concerns in that the site was the location of the Auto Toy Store, Alpine Jaguar and two service stations all of which used petroleum products and generated hazardous wastes. A Phase II ESA discovered residual volatile organic and petroleum contamination on the site. Langan conducted a Site Assessment to vertically and horizontally delineate the contamination and prepare a remedial cost estimate. The property owner contracted a consultant to prepare the remedial action plan (RAP) on their behalf. Langan reviewed the RAP and conducted oversight of the implementation of the RAP. The RAP was successful in attaining GCTLs and the site is currently in Post-Active Remediation Monitoring. Langan oversaw and managed the removal and disposal of numerous hydraulic lifts, oil water separators, contaminated soil and underground storage tanks.</p> <p>Langan also performed construction dewatering permitting and monitoring during construction in accordance BC EPDGM protocols, and also soil management during construction to ensure contaminated soils were not spread.</p> <p>In addition to the contamination related services, Langan conducted asbestos surveys prior to demolition of the five former structures that previously occupied the property.</p> <p>Project Cost: The cost of the project to date has exceeded \$500,000.</p>			
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Langan Engineering & Environmental Services	(2) FIRM LOCATION <i>(City and State)</i> Fort Lauderdale, Florida	(3) ROLE Asbestos Assessment, Environmental Studies, Environmental Impact Assessment, Hazardous Materials, Mitigation Services, Storage Tank Testing, Removal and Replacement

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G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS												
26. NAMES OF KEY PERSONNEL (From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)	28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)										
		1	2	3	4	5	6	7	8	9	10	
Vincent Yarina, PG, CEM	Project Manager	X	X		X	X	X	X	X	X	X	
Chip Day	Assistant Project Manager											
Danny Spector	Remediation, Site Assessment /Hydrogeology	X	X		X	X	X	X	X	X	X	
Ruben Ponciano	Senior Staff Geologist	X	X		X	X	X	X	X	X	X	
Roger Simon	Senior Staff Geologist	X	X		X	X	X	X	X	X	X	
Gregory Firely	Senior Project Scientist/Grants Assistance											
John Magnavita	Senior Project Manager/IAQ	X	X		X	X	X	X	X	X	X	
Vijay Patel	Hazmat Project Manager						X					
Ivan Zapata	Environmental Technician	X	X		X	X	X	X	X	X	X	
Brian Feury	CIH						X					
Michael Szura	Sustainability											
Christopher Hager	Sustainability											
Christopher Glenn	Sustainability			X								
Laura Miner	Environmental Compliance											
Raymond Lees	Remediation											
Fangmei Zhang	Remediation	X	X		X	X	X	X	X	X	X	
Stewart Abrams	Remediation						X					

29. EXAMPLE PROJECTS KEY			
NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Fort Lauderdale/Hollywood International Airport T-4 Remediation Fort Lauderdale, Florida	6	Fontainebleau Hotel Environmental, Asbestos, and Geotechnical Services Miami Beach, Florida
2	Border Patrol at Dania Beach Dania Beach, Florida	7	City of Hallandale Beach Hydrogeological Services Hallandale Beach, Florida
3	Mandela Parkway Oakland, California	8	Pompano Beach Municipal Golf Course Pompano Beach, Florida
4	321 Development Project (Fashion Mall) Plantation, Florida	9	Marlins Ballpark and Parking Garages Miami, Florida
5	Homestead City Hall Homestead, Florida	10	Elan 1640 (aka Auto Toy Store – Alpine Jaguar) Fort Lauderdale, Florida

Integrated Solutions. Measurable Value

Langan Engineering & Environmental Services provides site development engineering and environmental consulting for private developers, public agencies, property owners, and institutional clients around the world.

Founded in 1970, Langan employs more than 850 professionals in its **Elmwood Park, NJ** headquarters and among regional offices in:

- New York City, NY
- Trenton, NJ
- Philadelphia, PA
- Bethlehem, PA
- Doylestown, PA
- Pittsburgh, PA
- Oakland, CA
- San Francisco, CA
- Sacramento, CA
- San Jose, CA
- Irvine, CA
- New Haven, CT
- Arlington, VA
- Miami, FL

Langan is listed among the Top Design Firms and Top Green Design Firms in *Engineering News Record (ENR)*.

Langan International, the firm's wholly-owned subsidiary headquartered in New York City, provides all firm services for projects in the Middle East, Eastern Europe, Latin America, and the Caribbean. Langan International regional locations are in:

- Abu Dhabi
- Athens
- Doha
- Dubai
- Istanbul

On November 1, 2010, Langan acquired **Treadwell & Rollo**, a nationally recognized environmental, geotechnical, and earthquake engineering consulting firm serving private and public clients throughout California and beyond.

Environmental Engineering**Technical and Regulatory Knowledge**

Langan works with project teams to provide leading-edge, focused, streamlined investigations and risk-based remediation. We excel in promoting and gaining regulatory acceptance of risk based strategies to obtain cost effective site closures. Langan possesses expertise in a wide variety of projects including state Voluntary Programs, Brownfields, RCRA, State and Federal Superfund, Manufactured Gas Plants (MGP) and Storage Tank programs.

Langan Environmental Services:

- Risk-Based Corrective Action
- Brownfields
- Storage Tank Management
- Due Diligence Support

- Environmental Assessments
- Site Characterization
- Permitting/Regulatory Approvals
- Remediation Design/ Oversight
- Water Resources/Supply
- Hydrological Investigations
- Wastewater and Stormwater Permitting
- Air Modeling
- GIS/Database Management
- Environmental Impact Statements (EIS)
- Manufactured Gas Plant
- Remediation Services
- Asbestos/Lead-Based Paint Abatement
- Management of PCB-Containing Materials
- Indoor Air Quality/Mold Demolition
- Waste Management Compliance Auditing
- Ecological Risk Assessment
- Human Health Risk Assessment Site Feasibility Studies
- Remediation by Natural Attenuation
- Expert Witness
- Exposure Assessments
- Free Product Volume and Mobility Modeling

Transportation**Safe. Efficient. Innovative.**

Access is critical to any facility and Langan possesses decades of experience in total transportation engineering and planning services. In fact, from hospitals to universities to shopping centers to stadiums, we have developed programs, designs, and creative solutions that enhance access and circulation for facilities and major transportation systems throughout the United States.

Langan's transportation engineering and planning work includes highway and local street design, as well the design of parking, transit, and non-motorized transportation facilities. For the planning and design of these types of facilities we have provided simulation modeling, master plans, traffic impact studies, operational analysis, signal design, traffic calming measures, signage and wayfinding studies, origin/destination surveys, travel demand modeling, corridor studies, urban transportation plans, transit station and route planning, terminal planning, bikeway planning, and permitting services through counties, municipalities, and the various transportation agencies.

Langan Transportation Services Include:

- Vehicular Traffic Studies
- Stadium and Event Planning
- Traffic Modeling & Simulation
- Master Planning
- Transit Studies
- Station Planning
- Environmental Impact Statements
- Parking Studies
- Corridor Studies
- Site Access / Site
- Engineering
- Airport Studies
- Site Feasibility Studies
- Streetscape Improvements

H. ADDITIONAL INFORMATION

- Traffic Calming
- Value Engineering
- Bicycle & Pedestrian Safety
- Studies
- Toll Facilities
- Urban Development
- Grading & Roadway Design
- Infrastructure Rehabilitation
- Cost Estimates
- Contract Documents
- Construction Administration
- & Inspection
- Permit Application Packages
- Technical Specification
- STEPS
- SimTraffic
- Paramics
- VISSIM

Site / Civil Engineering

Responsiveness that Delivers Results

As an integral component of the design team, Langan works closely with the owner to develop conceptual site plans and realistic cost estimates. Our deadline-oriented professionals are available to our clients 24/7 to ensure timely approvals and permits to advance projects toward construction, occupancy, and ultimately revenue. Langan also supports projects with construction inspection and overall project management.

Langan Site/Civil Services:

- Project Management
- Site Feasibility Studies
- Conceptual Planning
- Site Engineering & Planning
- Grading & Drainage Design
- Stormwater Management Design
- Value Engineering
- Sanitary Treatment Plant Design
- Utility Infrastructure Design
- Water Supply/Hydrological Investigations
- Permitting/Regulatory Compliance
- Wetland Delineation/ Mitigation
- Landscape Architecture
- Regulatory Negotiation
- Survey-Boundary/ Topographical/GPS
- Traffic/Transportation Engineering
- Waterfront Systems Design
- Property Acquisition Support
- Conceptual Reuse Planning
- Funding Identification/Grant Assistance
- Regulatory Coordination/ Compliance
- Decommissioning/ Demolition Design
- Construction Management
- Construction Inspection
- CADD/GIS/Computer Animations
- SITEOPS® Optimization Services

Sustainable Design

LEEDing the Way

With more than **125 LEED APs** on staff, sustainable design weaves through all Langan services. Our diverse portfolio of intelligent site planning, design, and engineering coupled with our Brownfield and site remediation expertise places us at the forefront of the sustainable design movement.

Langan has been an instrumental player on dozens of Leadership in Energy and Environmental Design (LEED) and sustainable design projects. Our expertise allows us to make significant contributions in developing sustainable sites with an emphasis on stormwater management, low impact landscapes, brownfield redevelopment, materials recycling, energy conservation, and renewable energy design.

Langan Sustainable Design Services:

- LEED Site Feasibility Analysis
- Air Quality Assessments
- Asbestos Assessment and Abatement
- Lead-based Paint and Mold Removal
- Ecological Wastewater Treatment Design
- Low Impact Stormwater Design / Master Planning
- Brownfield Redevelopment
- Green Roof Design
- High Efficiency Site Lighting and Irrigation Design
- Streambank Restoration and Bioengineering Design
- Baseline Ecological Evaluations
- Wildlife and Habitat Evaluations
- Wetland Delineation, Design and Mitigation
- Urban Design and Regeneration Planning
- Geothermal Feasibility Studies and System Design Support

Geotechnical Engineering

Foundations You Can Trust

Langan was founded as a geotechnical consulting company in 1970, and geotechnical engineering remains a core discipline at Langan today. We work closely with our clients and the design and construction team to engineer cost-effective geotechnical solutions appropriate for proposed structures and the governing site conditions.

Our reputation as a premier geotechnical consultant has been earned by managing hundreds of projects involving complex, technically challenging sites where highly specialized site preparation, foundations, and fast-track engineering solutions are required.

Langan Geotechnical Services:

- Subsurface Investigations
- Foundation Design
- Materials Analysis
- Soil and Rock Mechanics
- Retaining Structures
- Slope Stabilization
- Soil Improvement/Ground Modification
- Dewatering Design and Permitting
- Subsurface Structure Design
- Excavation Support and Underpinning Design
- Earthquake Analysis
- Geological Mapping of Rock Slopes

H. ADDITIONAL INFORMATION

- Mine Investigations/Studies
- Hydrogeology
- Earth and Rock Fill Dams
- Tunnels/Microtunneling
- Seawalls, Piers and Bulkheads
- Dredging
- Vibration Monitoring
- Pre-Construction Conditions Surveys
- Value Engineering
- Construction Documents
- Contractor Support Services
- Engineering Services During Construction
- Forensic Engineering/Expert Testimony
- Cost Estimates

Landscape Architecture & Planning

Sense of Place

Langan Landscape Architects and Planners understand what makes places work. We shape effective design solutions that range from regional or city scale down to the most intimate courtyards and garden spaces. In every project we strive to identify and enhance the "sense of place," which makes every site unique and memorable. This places us at the forefront of the rebirth of our cities and aging downtowns, guiding their revitalization as destinations where people live, work, shop and play.

Langan Landscape Architecture + Planning Services:

- Site Feasibility and Yield Studies
- High Performance Site Planning
- Land Development Approvals
- Brownfield Redevelopment
- Waterfront Design
- Park and Playground Design
- Complete Streets, Streetscape Design and Traffic Calming
- Landscape Planting and Irrigation Design
- Landscape Restoration Design
- Contract Documents
- Rooftop Garden Design
- Site Lighting Design
- Water Feature Design
- Construction Administration and Inspection
- Expert Testimony and Zoning Reviews
- Community Outreach

Natural Resources / Permitting

Navigating Policy and Nature

Langan has developed strong relationships with Federal, state and local regulators through our experience in more than 1,000 wetland and permitting projects. Our Natural Resource staff consists of certified professional wetland scientists, ecologists and wildlife biologists with extensive experience throughout the United States. Our federal and state permitting specialists who work closely with our engineers to design a "permissible" project, while providing the most economic return to our clients. Our ability to identify critical natural resource issues early in the design process and our in-depth understanding of

regulatory programs and policies result in an expedited application and approval process.

Langan Natural Resources/Permitting Services:

- Wetland Delineation
- Army Corps of Engineers Section 10/404 Permit Applications
- State Permit Applications to Agencies, including SEQR
- Environmental Assessments / Environmental Impact Statements (EIS)
- NEPA Environmental Review Documents
- Alternatives Analysis
- Wetland Mitigation Design (Creation, Restoration, Enhancement)
- Wetland Mitigation Banking
- Coastal/Waterfront Development Permitting and Planning
- Dredge – Cut / Fill Analysis
- Wildlife Surveys and Habitat Assessments
- Threatened and Endangered Species Surveys and Habitat Assessments
- Essential Fish Habitat Assessments
- Baseline Ecological Evaluations (BEE)
- Natural Resource Damages Assessments
- Ecological Risk Assessment
- Wetland Functional Assessments
- Streambank Restoration / Bioengineering

Surveying / Mapping

Accuracy and Efficiency

Langan's survey group provides rapid response times and flexible schedules to meet client needs and maintain schedules for fast-track projects. Our field crews utilize state-of-the-art surveying equipment including electronic data collectors, global positioning systems (GPS), robotic and prismless total stations, and BIM-compatible 3D Laser Scanning.

Equipped with Internet-enabled laptops, field crews accommodate design changes in real time and download data into Langan's network where it is edited, adjusted, analyzed and plotted. This allows for mapping that accurately reflects existing site conditions and boundary/legal issues, which could reveal potential problems early in a project's development.

Such technology, coupled with the seamless integration with other firm technical disciplines, enables Langan's survey group to save time and money for our clients.

Langan Survey/Mapping Services:

- Boundary Surveys
- ALTA/ACSM Land Title Surveys
- Topographic Surveys
- GPS
- GIS/LIS Data Acquisition
- Deformation/Monitoring Surveys
- Wetlands Location Surveys
- Utility Surveys
- Subdivisions

H. ADDITIONAL INFORMATION

- 3D Laser Scanning
- Construction Stakeout
- Hydrographic/Bathymetric Surveys
- Environmental Surveys
- As-Built Surveys
- Photogrammetric Control
- Riparian Surveys
- Highway/Route Surveys
- Geographical Information Systems

3D Laser Scanning

Work in the Data, Not on the Data

Laser Scanning is changing the surveying/mapping industry and Langan is leading the revolution. Since the addition of High Definition Laser Scanning services in 2003, Langan has offered the most accurate and highly detailed existing conditions surveys possible. This advanced technology allows for the collection of millions of data points in less time and with lower overall cost than traditional techniques. Laser Scanning equipment allows end users to accomplish project objectives more efficiently and accurately at all stages, in turn minimizing overall project costs and reducing turn around time, while achieving a higher level of detail.

Our ability to offer a combination of High Definition Laser Scanning and conventional surveying methods allow Langan to deliver a complete product. As with all of our surveying services, the scanning effort is overseen by Professional Land Surveyors who bring experience and knowledge of traditional methods to this cutting-edge technology.

In scanning, the data collected is known as a "point cloud" which contains a 3D database of the entire project area and allows the measurement of any surface information that is visible in the cloud to be used during the entire project lifecycle. After processing, the data from the "point cloud" can be utilized to produce dimensionally correct 3D models and/or 2D dimensional plans, with outputs to Microstation, AutoCAD or a host of other platforms. The registered data can also be used as a base to create highly detailed site visualizations or mass models. The end data can be used for BIM support, forensics studies, to determine possible construction conflicts, to validate construction/fabrication dimensions, or even to model major motion picture sets.

With prior technologies the end user had to work on the data. High Definition Laser Scanning allows the end user the ability to work in the data and be "on site virtually" with the push of a button.

Building Information Modeling (BIM)

Langan has been utilizing the information modeling process long before the current BIM revolution. Langan's adaption of forward-thinking technologies has enabled us to provide our clients with BIM-based deliverables for the past several years.

These deliverables have included models representing interior building spaces, exterior building facades, mechanical rooms, civil surfaces, and underground utilities. These models have also been used in support model based facility management systems to reduce downtime and improve work order planning.

Langan's BIM expertise grew from our 3D laser scanning services, where our architect client's requested that the 3D point clouds be delivered in Revit format. This provided our clients with an accurate survey-based BIM model of their site's existing conditions, perfectly complimenting their design models. Langan has the tools and expertise to manipulate these massive 3D point clouds and to generate true Revit elements, such as walls, floors, doors, windows, pipes, HVAC etc.

Langan currently uses AutoCAD Revit's 2010 suite of BIM software, which included Architecture, MEP and Structure. We also use AutoCAD Civil 3D 2010 and have the expertise to convert the surface models into Revit. Our base design will be performed in Civil 3D.

Some of our satisfied clients where we have provided BIM deliverables for their projects include:

- The Royal Bank of Scotland, New York – 3D Laser Scanning of the building interior and ceiling utilities. Deliverables created in Revit Architecture and MEP.
- Confidential Government Building, Puerto Rico - 3D Laser Scanning of a large mechanical room. Used Revit Architecture and MEP to build models.
- Madison Square Garden, New York, Interior and partial exterior scan and model using scanning based software and AutoCAD 3D
- Union Street Station, Philadelphia, On-going project using scanning based software and AutoCAD 3D.
- Long Island North Shore Hospital, New York – Interior surveying of several floors, 3D laser scanning of exterior façade. Used Revit Architecture to build interior and exterior models for an expansion project.
- New York City Police Academy, New York – Site design using Civil 3D and methane venting system using Revit MEP

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE



33. NAME AND TITLE

Vincent Yarina, PG, CEM, Senior Associate/Vice President

32. DATE

June 20, 2015

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any)

General Environmental Engineering Services

PART II – CONTRACT-SPECIFIC QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME Langan Engineering & Environmental Services			3. YEAR ESTABLISHED 1970	4. DUNS NUMBER 158920707
2b. STREET 110 East Broward Boulevard, Suite 1500			5. OWNERSHIP	
2c. CITY Fort Lauderdale	2d. STATE FL	2e. ZIP CODE 33301	a. TYPE Corporation	
6a. POINT OF CONTACT NAME AND TITLE Vincent Yarina, PG, CEM, Senior Associate/Vice President			b. SMALL BUSINESS STATUS n/a	
6b. TELEPHONE NUMBER 954.320.2110		6c. E-MAIL ADDRESS vyarina@langan.com		7. NAME OF FIRM (If block 2a is a branch office) Langan Engineering & Environmental Services
8a. FORMER FIRM NAME(S) (If any)			8b. YR. ESTABLISHED	8c. DUNS NUMBER

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	161	3	A10	Asbestos Abatement	3
08	CADD Technician	14	1	C07	Coastal Engineering	1
12	Civil Engineer	191	6	C15	Construction Management	3
15	Construction Inspector	3		D02	Dams (Earth; Rock); Dikes; Levees	1
16	Construction Manager	1		E01	Ecological /Archeological Investigations	3
19	Ecologist	4		E06	Embassies and Chanceries	4
23	Environmental Engineer	98	3	E09	Envir. Impact Studies, Assessm'ts	6
24	Environmental Scientist	65	7	E12	Environmental Remediation	6
27	Foundation/Geotechnical Engineers	178	14	G04	GIS... and Data Collection	1
29	GIS Specialist	9		L02	Land Surveying	5
30	Geologist	43		L03	Landscape Architecture	3
34	Hydrologist	3		P06	Planning (Site, Installation, Project)	3
36	Industrial Hygienist	1		S05	Soils/Geologic Studies; Foundations	6
38	Land Surveyor	34		S11	Sustainable Design	1
39	Landscape Architect	11		T03	Traffic & Transportation Eng.	3
47	Planner: Urban/Regional	1		W02	Water Resources; Hydrology...	3
55	Soils Engineer	19		Z01	Zoning; Land Use Studies	4
57	Structural Engineer	1			Site/Civil Engineering	7
58	Technician	8			Due Diligence	4
60	Transportation Engineer	12	1			
(OTHER)	Asbestos/Lead/Mold Specialists	8				
TOTAL		865	35			

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

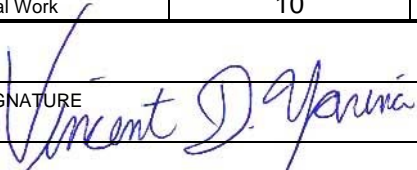
a. Federal Work	4
b. Non-Federal Work	10
c. Total Work	10

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- | | |
|---|---|
| 1. Less than \$100,000 | 6. \$2 million to less than \$5 million |
| 2. \$100,000 to less than \$250,000 | 7. \$5 million to less than \$10 million |
| 3. \$250,000 to less than \$500,000 | 8. \$10 million to less than \$25 million |
| 4. \$500,000 to less than \$1 million | 9. \$25 million to less than \$50 million |
| 5. \$1 million to less than \$2 million | 10. \$50 million or greater |

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

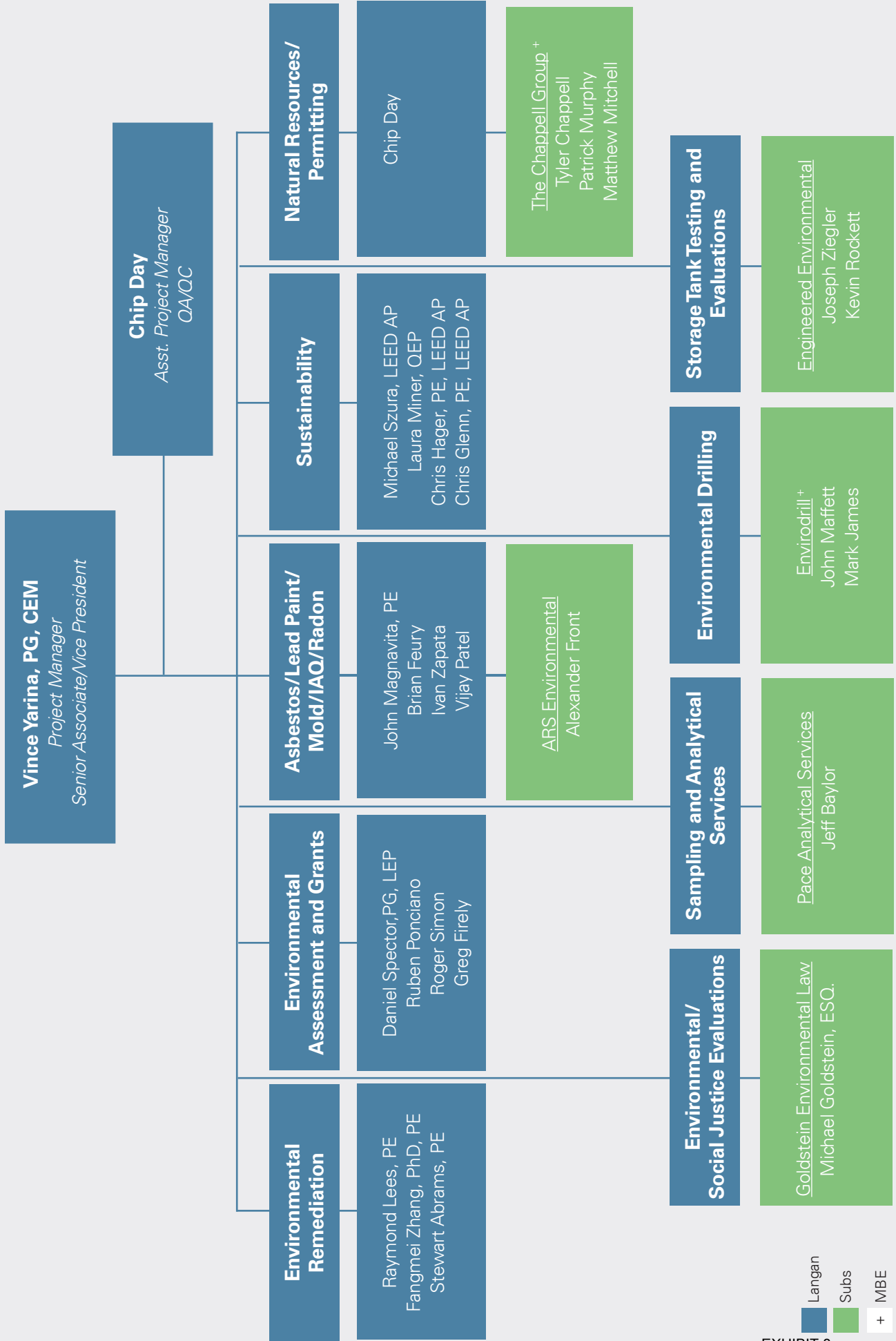
a. SIGNATURE 	b. DATE June 20, 2015
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Vincent Yarina, PG, CEM, Senior Associate/Vice President

AUTHORIZED FOR LOCAL REPRODUCTION

4

The City of Fort Lauderdale
 Bid #256-11587 for General Environmental Engineering Services



E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT			
(Complete one Section E for each key person.)			
12. NAME Vincent D. Yarina, PG, CEM	13. ROLE IN THIS CONTRACT Project Manager	14. YEARS EXPERIENCE	
		a. TOTAL 23	b. WITH CURRENT FIRM 16
15. FIRM NAME AND LOCATION (City and State) Langan Engineering & Environmental Services, Inc., Miami Lakes, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) Pennsylvania State University, BS in Earth Science, 1992 Drexel University, MS in Engineering Geology, 1999		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Professional Geologist in Florida (No. 2077) and Pennsylvania (No. 3260-E) Certified Florida Environmental Assessor (No. 248) Licensed Environmental Professional (No. 73) Certified Environmental Manager in Nevada (No. 2104)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State) Fontainebleau Resort Miami Beach, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2009	CONSTRUCTION (if applicable) 2009
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Project Manager; This project involved environmental due diligence, groundwater remediation and asbestos and mold abatements associated with the Fontainebleau Resort's major renovation project. During the due diligence, a dry cleaner and plume of chlorinated solvents was identified on-site. Site Assessments and remedial investigations revealed the 12,500+ ft ² plume had extended off-site and down to a depth of 30 ft. Under Mr. Yarina's direction a remedial alternative analysis was conducted and it was determined that in-situ chemical oxidation with persulfate was the most appropriate remedy.		
b.	(1) TITLE AND LOCATION (City and State) 151 Biscayne North Miami, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Project Manager; This project involves the amenities complex of a residential development being built on a former landfill. The complex will include a guard house, a pool, a one-story event room, one-story men's and women's shower and bathroom facilities, an athletic court, and a children's play area. The scope of work includes the design of a methane gas management system to monitor methane gas being produced by the landfill.		
c.	(1) TITLE AND LOCATION (City and State) Cascades Park Remediation Project Tallahassee, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2007	CONSTRUCTION (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Project Manager; Langan was responsible for design consulting and engineering oversight services for the \$8M Cascades Park Remediation Project, a coal gasification plant and landfill Superfund site that underwent remediation by the City of Tallahassee under an Administration Order of Consent with USEPA. Langan prepared the Removal Action Work Plan which received USEPA approval in a one month time period. Design specifications and drawings were developed for the removal of in excess of 47,000 cubic yards of contaminated soil, and the construction of a low permeability liner within the excavated area for future use as a stormwater management facility at the former plant site.		
d.	(1) TITLE AND LOCATION (City and State) Pompano Beach Municipal Golf Course Pompano Beach, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2011	CONSTRUCTION (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Project Manager; The City of Pompano Beach Municipal Golf Course is considered by Broward County EPD to be a contaminated site in which soil and groundwater are contaminated with arsenic; the site has been undergoing assessment and evaluation for a number of years. The city contracted Langan to help negotiate a final closure plan for the contamination. Langan collected soil and groundwater samples to determine the current status of the contamination.		
e.	(1) TITLE AND LOCATION (City and State) Border Patrol at Dania Beach Broward County, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2008	CONSTRUCTION (if applicable) 2008
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Mr. Yarina managed all environmental assessment and remediation activities associated with the redevelopment of multiple parcels of land in along East Atlantic Blvd and SR A1A. The parcels were previously occupied by shopping centers, a service station and an apartment building. The environmental activities include performing a Phase I Environmental Site Assessment (ESA), a Phase II ESA that consisted of installing numerous soil borings and monitoring wells at various areas of environmental concern. The Phase II ESA provided the developer the information necessary to make an informed decision on the purchase of the properties. Following the property transaction, Mr. Yarina also completed a complete Site Assessment of the petroleum contamination associated with a former service station, as well as a cleanup of the contamination.		

STANDARD FORM 330 (6/2004)

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME Irving M. "Chip" Day IV		13. ROLE IN THIS CONTRACT Assistant Project Manager	
		14. YEARS EXPERIENCE	
		a. TOTAL 15	b. WITH CURRENT FIRM 1
15. FIRM NAME AND LOCATION (City and State): Langan Engineering & Environmental Services, Fort Lauderdale, FL 33301			
16. EDUCATION (DEGREE AND SPECIALIZATION) MBA – International Business Development M.S. – Environmental Science B.S. – Urban and Regional Planning		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Texas Department of Transportation - Pre-certified: Protected Species Determination, Biological Surveys, Impact Evaluation Assessment, Environmental Document Preparation	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Project Manager Certification; FERC Process Certification; Wetland Delineation Certification; PADI Rescue Diver/Advanced OW/Nitrox; Certified Gopher Tortoise Agent (Permit #: GTA-12-00040); HAZWOPER 40-hour w/ yearly 8-hour Refresher; First Aid/CPR/AED			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State) Marina Expansion and Dredging Fort Lauderdale, Florida		(2) YEAR COMPLETED
			PROFESSIONAL SERVICES 2013
			CONSTRUCTION (if applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm. Environmental Manager; This multiphased dredge project incorporated work three existing marinas and a seagrass mitigation area and conceptual harmonization with the City of Ft. Lauderdale Beach Redevelopment Commission's expansion of the beach commercial area and marina expansion. The project proposes dredged access at three marinas and the Intracoastal Waterway channel, which is being dredged separately by the Florida Inland Navigation District (FIND). Mr. Day managed field data collection efforts and document preparation, which included a Benthic Habitat Assessments, Essential Fish Habitat Assessment, Biological Assessment and Conceptual Mitigation Design Plan. Additional tasks include navigation studies, bathymetric analysis, soil/sediment analysis, elimination and reduction of impact analysis, seagrass mitigation feasibility and design and the environmental resource permitting effort being conducted through the USACE, FDEP and Broward County Environmental Protection and Growth Management Department.			
b.	(1) TITLE AND LOCATION (City and State) Emergency Seawall Repairs and Beach Rehabilitation – Post Hurricane Sandy , Fort Lauderdale, Florida		(2) YEAR COMPLETED
			PROFESSIONAL SERVICES 2013
			CONSTRUCTION (if applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm. Mr. Day prepared the Physical Monitoring Plan and Turbidity Monitoring Plan for use by others during the emergency beach construction being conducted by the City of Fort Lauderdale, Broward County and Florida Department of Transportation after Hurricane Sandy. All prepared plans were utilized during the emergency permitting and RFP preparation for the seawall repair and environmental monitoring during construction. Coordinating and commenting agencies include USACE, NOAA/NMFS, FDEP and SFWMD.			
c.	(1) TITLE AND LOCATION (City and State) Broward County Aviation Department (BCAD), Fort Lauderdale-Hollywood International Airport Expansion Program , Fort Lauderdale, Florida		(2) YEAR COMPLETED
			PROFESSIONAL SERVICES 2013
			CONSTRUCTION (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm. Mr. Day was responsible for assisting BCAD with ecological-related tasks including wetland mitigation construction and exotic species control oversight, threatened and endangered wildlife surveys and permitting (including burrowing owl relocations) and environmental permit compliance activities. In addition, responsible for the performance of five years of quarterly mitigation monitoring and maintenance activities (includes contractor management and oversight) to ensure compliance with Federal, State and County environmental permits.			
d.	(1) TITLE AND LOCATION (City and State) I-95 Project Development and Environment Study from Oakland Park to Glades Road , Broward County, Florida		(2) YEAR COMPLETED
			PROFESSIONAL SERVICES 2008 - 2013
			CONSTRUCTION (if applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm. Mr. Day was the Environmental Project Manager for this PD&E Study which incorporates various roadway and bridge design alternatives along the project corridor. Mr. Day was responsible for all fieldwork and documentation, including T&E surveys [wildlife/plant] and wetland habitat surveys, 100% gopher tortoise survey, benthic resource and EFH assessment and NEPA document preparation (CatEx Type II, AQTM, CSER, EFH, NSR, ESBA, and WER), budget, coordination and task management along with coordination efforts with FDOT District IV – including the harmonization with the separate projects to the north and south.			
e.	(1) TITLE AND LOCATION (City and State) Everglades Landscape Processes (ELP) Monroe, Miami-Dade, Broward, and Palm Beach Counties, Florida		(2) YEAR COMPLETED
			PROFESSIONAL SERVICES 2008
			CONSTRUCTION (if applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm. This long-term research project is a component of the Federal and State funded Comprehensive Everglades Restoration Plan (CERP) which is the largest wetland restoration project in the world. He was tasked with experimental design and execution of several unique projects including assessment of soil dynamics and vegetative stress by assessing xylem transport rates, canopy leaf area index, root decomposition, forest structure complexity, seedling recruitment, leaf litter decomposition, groundwater hydrology, microclimatology, micro-topography and exotic species intrusion on tree islands — tree islands are to be utilized as indicators of the overall ecological health of the Everglades wetland matrix. In addition to field efforts, controlled environment work was performed within the Loxahatchee Impounded Landscape Assessment (LILA) area where working physical models of tree islands, sloughs and ridges can be examined under varying hydrological conditions.			

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT <i>(Complete one Section E for each key person.)</i>							
12. NAME Daniel Spector, PG, LEP	13. ROLE IN THIS CONTRACT Remediation, Site Assessment / Hydrogeology	14. YEARS EXPERIENCE <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">a. TOTAL</td> <td style="width: 50%; border: none;">b. WITH CURRENT FIRM</td> </tr> <tr> <td style="border: none; text-align: center;">22</td> <td style="border: none; text-align: center;">10</td> </tr> </table>		a. TOTAL	b. WITH CURRENT FIRM	22	10
a. TOTAL	b. WITH CURRENT FIRM						
22	10						
15. FIRM NAME AND LOCATION (City and State) Langan Engineering & Environmental Services, Miami Lakes, Florida							
16. EDUCATION (DEGREE AND SPECIALIZATION) Hunter College, CUNY, BA, Geology Florida International University, M.S., Geosciences		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Professional Geologist, Florida Licensed Professional Geologist, Alabama Licensed Environmental Professional, Florida					
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)							
19. RELEVANT PROJECTS							
a	(1) TITLE AND LOCATION (City and State) Fort Lauderdale/Hollywood International Airport, T-4 Remediation, Fort Lauderdale, Florida	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td style="border: none; text-align: center;">2015</td> <td style="border: none; text-align: center;">2015</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>	2015	2015
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>					
	2015	2015					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Project Manager; This project consisted of environmental services during utility construction in a petroleum-impacted area near the western gate of the Fort Lauderdale/Hollywood International Airport. Langan's services include Work Plan Development, Geotechnical Evaluation of Soil Conditions, Soil Pre-Characterization, Well Installation & Abandonment, Open-excavation Air-sparging, and Environmental Observation During Construction.							
b	(1) TITLE AND LOCATION (City and State) Marlins Ballpark and Parking Garages, Miami, Florida	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td style="border: none; text-align: center;">2009</td> <td style="border: none; text-align: center;">2011</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>	2009	2011
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>					
	2009	2011					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Project Manager; This project involved the construction of the Marlins Ballpark and surrounding four parking garages. The site, the former Orange Bowl, was contaminated by arsenic in the soil and groundwater. The groundwater was very shallow and required dewatering to enable construction. Excavations were to occur in the Miami Limerock, which is highly permeable but not suitable for many methods of dewatering. Multiple contractors retained Langan to provide dewatering design and permitting services for multiple phases of the foundation and utility construction at the entire project site.							
c	(1) TITLE AND LOCATION (City and State) Sunny Isles Hydrogeological Investigation Sunny Isles Beach, Florida	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td style="border: none; text-align: center;">2008</td> <td style="border: none; text-align: center;">n/a</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>	2008	n/a
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>					
	2008	n/a					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Project Manager; Responsibilities included an investigation of the variation of specific capacity in a 100-acre area of Sunny Isles Beach, where the city was redesigning the roadway drainage infrastructure, including installing additional deep stormwater drainage wells. The investigation comprised three Standard Penetration Tests to 100 ft below grade, identification of potential production zones for the stormwater, and completion of specific capacity tests on those production zones to estimate the volume flow (gallons per minute per foot of head) the city's civil engineer should use for the design of the drainage system. Langan recommended design flow rates ranging from 400 gpm/ft to 700 gpm/ft.							
d	(1) TITLE AND LOCATION (City and State) City of Hallandale Beach, Drainage Improvements Hallandale Beach, Florida	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td style="border: none; text-align: center;">2011</td> <td style="border: none; text-align: center;">n/a</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>	2011	n/a
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>					
	2011	n/a					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Project Manager; Langan provided hydrogeological services in support of the city's plan to install pressurized right-of-way stormwater drainage wells to alleviate street flooding. Langan's scope of work included supervising five 150-ft. test holes in the 120-acre Northeast Quadrant project area and five 200-ft. test holes in the 120-acre Southwest Quadrant project area; evaluating geology and water quality (total dissolved solids); and performing a specific capacity test in potential production zones in the Southwest Quadrant project area. Langan completed both project areas and provided reasonable assurance reports that met the requirements of Chapter 62-528, Florida Administrative Code, as part of the permit package for the new stormwater drainage wells.							
e	(1) TITLE AND LOCATION (City and State) Tenant Environmental Compliance Audits, Miami International Airport Miami, Florida	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td style="border: none; text-align: center;">2007</td> <td style="border: none; text-align: center;">n/a</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>	2007	n/a
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>					
	2007	n/a					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Project manager; This project at Miami International Airport involved the evaluation of seven tenants' UST and AST systems, wastewater systems, hazardous materials storage and disposal procedures, permit compliance, environmental management systems, and oil pollution management systems. Langan compared the tenant's practices and procedures to federal requirements in CERCLA, SARA, RCRA, TSCA, CAA, CWA, OPA, and SDWA and to state and local rules and regulations.							

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT <i>(Complete one Section E for each key person.)</i>							
12. NAME Ruben Ponciano	13. ROLE IN THIS CONTRACT Senior Staff Geologist	14. YEARS EXPERIENCE <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">a. TOTAL</td> <td style="width: 50%; border: none;">b. WITH CURRENT FIRM</td> </tr> <tr> <td style="border: none; text-align: center;">20</td> <td style="border: none; text-align: center;">11</td> </tr> </table>		a. TOTAL	b. WITH CURRENT FIRM	20	11
a. TOTAL	b. WITH CURRENT FIRM						
20	11						
15. FIRM NAME AND LOCATION (City and State) Langan Engineering & Environmental Services, Inc., Miami Lakes, Florida							
16. EDUCATION (DEGREE AND SPECIALIZATION) York College, The City University of New York, New York Bachelor of Science degree in Geology, 1989		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) OSHA 40-hour Health and Safety OSHA 8-hour Health and Safety for Hazardous Waste Operations OSHA 8-hour Hazardous Material Supervisor/Management					
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)							
19. RELEVANT PROJECTS							
a.	(1) TITLE AND LOCATION (City and State) Avis / Budget Rent a Car San Juan, Puerto Rico	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION (if applicable)</td> </tr> <tr> <td style="border: none; text-align: center;">2008</td> <td style="border: none; text-align: center;">n/a</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	2008	n/a
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)					
	2008	n/a					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Senior Staff Geologist; Responsible for implementing Phase I and II Environmental Assessments consisting of a groundwater and soil sampling investigation. Responsibilities included soil and groundwater sampling, communicating with local regulatory agencies, and preparing reports.							
b.	(1) TITLE AND LOCATION (City and State) Marlins Ballpark and Parking Garages Miami, Florida	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION (if applicable)</td> </tr> <tr> <td style="border: none; text-align: center;">2011</td> <td style="border: none; text-align: center;">2011</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	2011	2011
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)					
	2011	2011					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Senior Staff Geologist; The project involved the construction of the Marlins Ballpark and surrounding four parking garages. The site, the former Orange Bowl, was contaminated by arsenic in the soil and groundwater. The groundwater was very shallow and required dewatering to enable construction. Excavations were to occur in the Miami Limerock, which is highly permeable but not suitable for many methods of dewatering. Multiple contractors retained Langan to provide dewatering design and permitting services for multiple phases of the foundation and utility construction at the entire project site. Langan designed a construction dewatering system that treated the highly turbid dewatering effluent for both suspended solids and arsenic.							
c.	(1) TITLE AND LOCATION (City and State) Fontainebleau Hotel Miami Beach, Florida	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION (if applicable)</td> </tr> <tr> <td style="border: none; text-align: center;">2009</td> <td style="border: none; text-align: center;">2009</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	2009	2009
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)					
	2009	2009					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Senior Staff Geologist; Responsible for implementing a groundwater and soil sampling site assessment that Initial sampling identified a plume of tetrachloroethene and trichloroethene covering approximately 50 square feet to a depth of 30 feet. The site assessment included installing and sampling more than 40 direct-push and sonic monitoring wells and removing 40 tons of source material in low-headroom conditions.							
d.	(1) TITLE AND LOCATION (City and State) University of Miami Life Science & Technology Park Miami, Florida	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION (if applicable)</td> </tr> <tr> <td style="border: none; text-align: center;">2009</td> <td style="border: none; text-align: center;">2011</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	2009	2011
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)					
	2009	2011					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Senior Staff Geologist; The extensive 1.4 million SF research and development complex was constructed in phases and consists of numerous mid-rise buildings and associated multi-level parking structures. Langan's environmental group performed a Reasonable Assurance Report required for deep injection well permitting and construction.							
e.	(1) TITLE AND LOCATION (City and State) Metropolitan Miami Miami, Florida	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION (if applicable)</td> </tr> <tr> <td style="border: none; text-align: center;">Ongoing</td> <td style="border: none; text-align: center;">Ongoing</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	Ongoing	Ongoing
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)					
	Ongoing	Ongoing					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Senior Staff Geologist; This is a mixed-use development covering three downtown Miami city blocks. Langan performed environmental studies to determine the extent of petroleum and creosote impacted soils due to a former marine bulkhead that traversed the property. Langan successfully completed two soil and groundwater remediation projects at the site, and obtained regulatory closure. Langan also performed mold surveys during construction of the interiors for the Met 1 and Met 2 projects.							

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT <i>(Complete one Section E for each key person.)</i>							
12. NAME Roger Simon	13. ROLE IN THIS CONTRACT Senior Staff Geologist	14. YEARS EXPERIENCE <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">a. TOTAL</td> <td style="width: 50%; padding: 2px;">b. WITH CURRENT FIRM</td> </tr> <tr> <td style="text-align: center; padding: 2px;">7</td> <td style="text-align: center; padding: 2px;">3</td> </tr> </table>		a. TOTAL	b. WITH CURRENT FIRM	7	3
a. TOTAL	b. WITH CURRENT FIRM						
7	3						
15. FIRM NAME AND LOCATION (City and State) Langan Engineering & Environmental Services, Miami Lakes, Florida							
16. EDUCATION (DEGREE AND SPECIALIZATION) B.S. Geophysical Science, University of Chicago □□		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) 40-hour OSHA Hazardous Waste Operations and Emergency Response Certificate NIOSH 582 Microscopy					
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)							
19. RELEVANT PROJECTS							
a.	(1) TITLE AND LOCATION (City and State) The Heritage at Boca Raton Boca Raton, Florida	(2) YEAR COMPLETED <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">PROFESSIONAL SERVICES</td> <td style="width: 50%; padding: 2px;">CONSTRUCTION (if applicable)</td> </tr> <tr> <td style="text-align: center; padding: 2px;">2011</td> <td style="text-align: center; padding: 2px;">N/A</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	2011	N/A
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)					
	2011	N/A					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Technical Team Member; This project consisted of a Phase I Environmental Assessment that revealed the presence of historical asbestos-containing building materials sealed in the interstitial spaces of the newly renovated buildings. An Operation and Maintenance plan was put into place and facilitated the sale of the property, the largest real estate transaction recorded in Palm Beach County in 2011.							
b.	(1) TITLE AND LOCATION (City and State) Met Miami Mixed-Use Development Miami, Florida	(2) YEAR COMPLETED <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">PROFESSIONAL SERVICES</td> <td style="width: 50%; padding: 2px;">CONSTRUCTION (if applicable)</td> </tr> <tr> <td style="text-align: center; padding: 2px;">Ongoing</td> <td style="text-align: center; padding: 2px;">Ongoing</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	Ongoing	Ongoing
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)					
	Ongoing	Ongoing					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Technical Team Member; This project consisted of a Phase I Environmental Assessment that revealed the presence of historical arsenic-impacted fill material. Subsequent characterization using 95% Upper Confidence Limit statistical analysis resulted in delineation and disposal of over 400 tons of fill material from select areas and decreased construction costs.							
c.	(1) TITLE AND LOCATION (City and State) Biscayne Landing North Miami, Florida	(2) YEAR COMPLETED <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">PROFESSIONAL SERVICES</td> <td style="width: 50%; padding: 2px;">CONSTRUCTION (if applicable)</td> </tr> <tr> <td style="text-align: center; padding: 2px;">2011</td> <td style="text-align: center; padding: 2px;">N/A</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	2011	N/A
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)					
	2011	N/A					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Technical Team Member; Implemented Landfill Gas (LFG) Management System Monitoring for Residential and Commercial Structures. Mr. Simon performed landfill gas monitoring and prepared numerous Landfill Gas Monitoring Report (GMR) to FDEP, the Miami-Dade Department of Environmental Resources Management (DERM) and Miami-Dade Fire Rescue. Mr. Simon implemented the Surface Water and Groundwater Quality Monitoring Program for the site consisting of 83 monitoring wells and 30 surface water sampling locations.							
d.	(1) TITLE AND LOCATION (City and State) PortMiami Tunnel Miami, Florida	(2) YEAR COMPLETED <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">PROFESSIONAL SERVICES</td> <td style="width: 50%; padding: 2px;">CONSTRUCTION (if applicable)</td> </tr> <tr> <td style="text-align: center; padding: 2px;">2010</td> <td style="text-align: center; padding: 2px;">2014</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	2010	2014
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)					
	2010	2014					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Technical Team Member; Coordinated and collected historical groundwater and soil sampling data, assisted in the development of the soil management plan for large volumes of spoils from tunnel boring operation, including the acquisition of confirmatory soil data for soil reuse and soil classification.							
e.	(1) TITLE AND LOCATION (City and State) Monroe County Landfill Groundwater Monitoring Cudjoe Key, Long Key, and Key Largo, Florida	(2) YEAR COMPLETED <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">PROFESSIONAL SERVICES</td> <td style="width: 50%; padding: 2px;">CONSTRUCTION (if applicable)</td> </tr> <tr> <td style="text-align: center; padding: 2px;">Ongoing</td> <td style="text-align: center; padding: 2px;">N/A</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	Ongoing	N/A
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)					
	Ongoing	N/A					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Technical Team Member; Responsible for monitoring of groundwater semi-annually at three county landfills – Cudjoe Key, Long Key, and Key Largo – as part of the county's solid waste permits from the Florida Department of Environmental Protection. The project involves collecting samples from 11 monitoring wells and one, surface water location.							

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT <i>(Complete one Section E for each key person.)</i>							
12. NAME Gregory M. Firely	13. ROLE IN THIS CONTRACT Senior Project Scientist/ Grant Assistance	14. YEARS EXPERIENCE <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">a. TOTAL</td> <td style="width: 50%; border: none;">b. WITH CURRENT FIRM</td> </tr> <tr> <td style="border: none; text-align: center;">16</td> <td style="border: none; text-align: center;">5</td> </tr> </table>		a. TOTAL	b. WITH CURRENT FIRM	16	5
a. TOTAL	b. WITH CURRENT FIRM						
16	5						
15. FIRM NAME AND LOCATION (City and State) Langan Engineering & Environmental Services, Inc., Doylestown, PA							
16. EDUCATION (DEGREE AND SPECIALIZATION) Drexel University, Philadelphia, Pennsylvania Bachelor of Science degree in Environmental Science, 2000		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)					
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)							
19. RELEVANT PROJECTS							
a.	(1) TITLE AND LOCATION (City and State) Taylor Colliery Redevelopment Program – US EPA Brownfields Grant Management, Taylor, Pennsylvania	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION (if applicable)</td> </tr> <tr> <td style="border: none; text-align: center;">2009</td> <td style="border: none; text-align: center;">N/A</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	2009	N/A
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)					
	2009	N/A					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm. Submitted successful US EPA Brownfields Assessment Grant for \$350,000, for the assessment of a 150-acre abandoned coal mining / processing facility. Served as Program Manager for the Taylor Borough Brownfields Program and completed all site environmental assessments and characterizations with the approval of the US EPA. Additional sources leveraged for funding for the project in excess of \$4 million.							
b.	(1) TITLE AND LOCATION (City and State) Taylor Brownfield Program – US EPA Brownfields Grant Management, Taylor, Pennsylvania	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION (if applicable)</td> </tr> <tr> <td style="border: none; text-align: center;">2013</td> <td style="border: none; text-align: center;">N/A</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	2013	N/A
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)					
	2013	N/A					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm. Submitted successful US EPA Brownfields Cleanup Grant for \$400,000, for the cleanup of a 150-acre abandoned coal mining / processing facility and assessment of community wide brownfields.							
c.	(1) TITLE AND LOCATION (City and State) Montgomery County Redevelopment Authority – US EPA Brownfields Consulting, Montgomery County, Pennsylvania	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION (if applicable)</td> </tr> <tr> <td style="border: none; text-align: center;">2008</td> <td style="border: none; text-align: center;">N/A</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	2008	N/A
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)					
	2008	N/A					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm. Pilot brownfields program funded by the USEPA performed identification, assessment, remediation, and redevelopment of brownfield properties throughout the county. All work funded through US EPA Brownfields grant program and subject to US EPA program approvals, guidelines and reporting requirements.							
d.	(1) TITLE AND LOCATION (City and State) City of Philadelphia – US EPA Brownfields Consulting, Philadelphia, Pennsylvania	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION (if applicable)</td> </tr> <tr> <td style="border: none; text-align: center;">2008</td> <td style="border: none; text-align: center;">N/A</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	2008	N/A
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)					
	2008	N/A					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm. Brownfields program funded by the USEPA performed identification, assessment, remediation, and redevelopment of brownfield properties throughout the county. All work funded through US EPA Brownfields grant program and subject to US EPA program approvals, guidelines and reporting requirements.							
e.	(1) TITLE AND LOCATION (City and State) Bucks County Redevelopment Authority – US EPA Brownfields Consulting, Bucks County, Pennsylvania	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION (if applicable)</td> </tr> <tr> <td style="border: none; text-align: center;">2014</td> <td style="border: none; text-align: center;">N/A</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	2014	N/A
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)					
	2014	N/A					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm. Brownfields program funded by the USEPA performed identification, assessment, remediation, and redevelopment of brownfield properties throughout the county. All work funded through US EPA Brownfields grant program and subject to US EPA program approvals, guidelines and reporting requirements.							

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT <i>(Complete one Section E for each key person.)</i>							
12. NAME John Magnavita, PE	13. ROLE IN THIS CONTRACT Senior Project Manager (Indoor Air Quality)	14. YEARS EXPERIENCE <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">a. TOTAL</td> <td style="width: 50%; border: none;">b. WITH CURRENT FIRM</td> </tr> <tr> <td style="text-align: center; border: none;">23</td> <td style="text-align: center; border: none;">23</td> </tr> </table>		a. TOTAL	b. WITH CURRENT FIRM	23	23
a. TOTAL	b. WITH CURRENT FIRM						
23	23						
15. FIRM NAME AND LOCATION (City and State) Langan Engineering & Environmental Services, Inc., Miami Lakes, Florida							
16. EDUCATION (DEGREE AND SPECIALIZATION) University of Florida, BSCE 1992, Masters in Engineering, 2002		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Florida Licensed Professional Engineer (PE No. 54826) Florida Licensed Asbestos Consultant (License No. AX-70) Florida AHERA Certified Asbestos Project Designer, Management Planner and Building Inspector					
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) American Society of Civil Engineers							
19. RELEVANT PROJECTS							
a.	(1) TITLE AND LOCATION (City and State) Auto Toy Store Fort Lauderdale, Florida	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION (if applicable)</td> </tr> <tr> <td style="text-align: center; border: none;">2012</td> <td style="text-align: center; border: none;"></td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	2012	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)					
	2012						
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Senior Project Manager; Performed a pre-demolition asbestos survey for a cluster of auto sales and service store structures consisting of 20,000 SF of floor space.							
b.	(1) TITLE AND LOCATION (City and State) The 321 Development Project (Former Fashion Mall) Plantation, Florida	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION (if applicable)</td> </tr> <tr> <td style="text-align: center; border: none;">2011</td> <td style="text-align: center; border: none;">N/A</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	2011	N/A
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)					
	2011	N/A					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Senior Project Manager; This project included a three-level shopping mall, seven-story office building, and a parking garage. The scope of work included the visual inspection of the buildings to identify the presence, condition, and extent of asbestos-containing materials (ACM) as well as the preparation of an asbestos survey report. Mr. Magnavita managed and prepared the asbestos surveys of the several thousand square feet of the buildings. He was also responsible for providing overall project coordination, facilitating the selection of an abatement contractor, managing asbestos abatement monitoring, and preparing final clearance documents.							
c.	(1) TITLE AND LOCATION (City and State) Opa Locka Abandoned Water Treatment Plant Demolition Opa Locka, Florida	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION (if applicable)</td> </tr> <tr> <td style="text-align: center; border: none;">2010</td> <td style="text-align: center; border: none;">N/A</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	2010	N/A
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)					
	2010	N/A					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Senior Project Manager; This project involved the preparation of demolition specifications, asbestos/Lead-based paint consulting, and environmental hazard assessments for this 80-year-old water treatment facility that had been abandoned for 25 years. Mr. Magnavita was responsible for supervising and coordinating the asbestos survey and the lead-based paint check as well as the hazardous assessment, which precluded the demolition specification preparation.							
d.	(1) TITLE AND LOCATION (City and State) Fontainebleau Resort Miami Beach, Florida	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION (if applicable)</td> </tr> <tr> <td style="text-align: center; border: none;">2009</td> <td style="text-align: center; border: none;">2009</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	2009	2009
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)					
	2009	2009					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Senior Project Manager; This project involved geotechnical, environmental due diligence, groundwater remediation and asbestos and mold abatements services for the entire 1,000,000-sf Fontainebleau Resort complex. Mr. Magnavita was responsible for the geotechnical investigation and site work as well as preparation and management of the asbestos surveys. He also prepared comprehensive maps of asbestos materials as part of the asbestos surveys, organized client/regulatory meetings regarding disposition of asbestos materials, managed asbestos abatement monitoring services, and prepared final clearance documents for re-occupation of entire facility.							
e.	(1) TITLE AND LOCATION (City and State) Cipriani (Formerly Saxony Hotel) Miami Beach, Florida	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION (if applicable)</td> </tr> <tr> <td style="text-align: center; border: none;">2005</td> <td style="text-align: center; border: none;">N/A</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	2005	N/A
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)					
	2005	N/A					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Senior Project Manager; This project involved asbestos consulting and geotechnical engineering services for this \$550-million revival of Miami's Saxony Hotel. Mr. Magnavita performed an extensive asbestos survey of the 200,000-SF property, prepared the asbestos survey report, assisted our client in selecting an abatement contractor, managed the asbestos abatement project monitoring, prepared final clearance document, performed geotechnical engineering foundation and site preparation design work, and developed foundation and dewatering strategy that facilitated regulatory permitting.							

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT			
12. NAME Vijay Patel		13. ROLE IN THIS CONTRACT Hazmat Project Manager/ Designer/Inspector/Investigator	
		14. YEARS EXPERIENCE	
		a. TOTAL 26	b. WITH CURRENT FIRM 23
15. FIRM NAME AND LOCATION (City and State) Langan Engineering & Environmental Services/New Haven, CT			
16. EDUCATION (DEGREE AND SPECIALIZATION) B.S. Mechanical Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Certified EP/AHERA Inspector/Management Planner/ Designer/Supervisor/Project Monitor/Air Sampling Technician	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State) The New York City School Construction Authority On-Call 5 Boroughs of New York City		(2) YEAR COMPLETED
			PROFESSIONAL SERVICES Ongoing
			CONSTRUCTION (if applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Project Manager for on-going work as a part of the heating and boiler plant modification, installation of computer rooms, exterior restoration, intrusion alarm system installation, and the science laboratory upgrading projects, conducted asbestos investigations, prepared investigation report and abatement documentation which also included the cost estimates for the abatement, for almost 40 New York City Schools.			
b.	(1) TITLE AND LOCATION (City and State) New Jersey School Construction Corporation Various locations, NJ		(2) YEAR COMPLETED
			PROFESSIONAL SERVICES Ongoing
			CONSTRUCTION (if applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Project Manager; Currently working on numerous school construction projects throughout the State of New Jersey in connection with renovations of the existing schools, and construction of new school. Work includes preparation of comprehensive reports of findings, asbestos abatement design documents, cost estimates, and manage abatement projects. For select schools also performed evaluation of drinking water quality.			
c.	(1) TITLE AND LOCATION (City and State) Caribbean West Apartment Complex Miami, Florida		(2) YEAR COMPLETED
			PROFESSIONAL SERVICES 2009
			CONSTRUCTION (if applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Project Manager; Langan conducted a Lead-Based Paint Survey at the Caribbean West apartment complex in Miami, Florida. The lead-based paint survey was conducted in accordance with HUD's Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing, 1997 Revised Addition. Based on the guidelines for multi-family housing, Langan inspected 25 of the 102 units within the development, 16 of the 24 common areas, and 16 of the 22 exterior sides of the buildings. Langan used an X-Ray Florescence (XRF) instrument to conduct non-invasive sampling for lead-based paint throughout the apartment complex. The results of the lead-based paint survey were presented in a final report following the protocol as stated in the HUD guidelines.			
d.	(1) TITLE AND LOCATION (City and State) Federal Hall Building New York City, New York		(2) YEAR COMPLETED
			PROFESSIONAL SERVICES Ongoing
			CONSTRUCTION (if applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Project Manager; Prepared asbestos abatement program associated with the clean-up of the Basement and Sub-Basement levels of the building. Work included asbestos field survey, value engineering recommendations, and preparation of technical specifications and contract drawings, cost estimations, bidding phase coordination and prepare and obtain variance application approval.			
e.	(1) TITLE AND LOCATION (City and State) Fontainebleau Resort Miami Beach, Florida		(2) YEAR COMPLETED
			PROFESSIONAL SERVICES 2009
			CONSTRUCTION (if applicable) 2009
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Project Manager; Conducted and managed asbestos surveys and asbestos abatement monitoring for this one million square foot project that was built in the 1950s and had undergone numerous renovations. The asbestos surveys were conducted while the facility was occupied, which required extensive coordination with the owner and operations management such that the inspections could be conducted thoroughly and efficiently. The asbestos survey required about two months of inspection work. Significant quantities of asbestos-containing material (ACM) were identified throughout the facility. The asbestos abatement of this facility required about 11 months and costs were in excess of \$2.5 million.			

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME Ivan Zapata	13. ROLE IN THIS CONTRACT Environmental Technician	14. YEARS EXPERIENCE	
		a. TOTAL 13	b. WITH CURRENT FIRM 10
15. FIRM NAME AND LOCATION (City and State) Langan Engineering & Environmental Services, Inc., Miami Lakes, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) Miami-Dade Community College, Computer Science		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Certified Asbestos Supervisor & AHERA Building Inspector Asbestos Project Monitor License for the State of New York (License No. 08-19997) NIOSH 582 Phase Contrast Microscopy Certification OSHA 40-Hour Hazardous Waste Operations Training	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State) The 321 Development Project (Former Fashion Mall) Plantation, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2011	CONSTRUCTION (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Environmental Technician; This project included a three-level mall, seven-story office building, and a parking garage. The scope of work included the visual inspection of the facility to identify Asbestos Containing Materials (ACM) as well as the preparation of an asbestos survey report. Mr. Zapata conducted the asbestos surveys to identify the presence, condition and extent of ACMs at this facility. The scope of work included the visual inspection of the facility and asbestos survey report preparation. Mr. Zapata coordinated and conducted oversight of ACM removal prior to the planned renovation of the facility. Abatement oversight activities included visual inspections of asbestos abatement areas to ensure that the abatement contractor's removal work practices were in accordance with federal, state, and local regulations; pre, during, and post-asbestos abatement air sampling of asbestos abatement areas; and abatement clearance reports.		
b.	(1) TITLE AND LOCATION (City and State) Hialeah Park Horse Racetrack Hialeah, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2011	CONSTRUCTION (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Environmental Technician; This project included a three-level clubhouse, five-story back-of-house structure, four-level grandstand, mechanical equipment structure, and a warehouse. Mr. Zapata conducted an asbestos survey of this facility which involved performing a visual inspection of the facility to identify the presence, condition, and extent of ACMs. He was also responsible for preparing the asbestos survey report.		
c.	(1) TITLE AND LOCATION (City and State) Metropolitan One Miami, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2011	CONSTRUCTION (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Environmental Technician; This project involved the investigation and visual assessment of all accessible areas to identify water impacted building materials utilizing a moisture meter. Mr. Zapata conducted a water intrusion investigation of the 41-story condominium tower and prepared a summary of observations using photographic documentation of impacted areas collected from a digital and infrared camera.		
d.	(1) TITLE AND LOCATION (City and State) JC Penney Department Stores in Miami-Dade, Palm Beach, Hillsborough and Pinellas County, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2010	CONSTRUCTION (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Environmental Technician; This project involved performing an investigation and visual assessment of all accessible areas to identify water impacted building materials utilizing a moisture meter. Mr. Zapata conducted work-in-progress air monitoring of areas where an asbestos abatement contractor performed re-cabling for registers, quality assurance asbestos inspections to ensure contractor's work was in compliance with the work plan, and phase contrast microscopy (PCM) air sampling analysis for various JC Penney Department Store locations. Mr. Zapata also conducted a water intrusion investigation for one of the JC Penny Department Store locations. A summary of observations was prepared using photographic documentation of impacted areas collected from a digital and infrared camera.		
e.	(1) TITLE AND LOCATION (City and State) Fontainebleau Resort Miami Beach, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2009	CONSTRUCTION (if applicable) 2009
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Environmental Technician; This project involved environmental due diligence, groundwater remediation and asbestos and mold abatements associated with the Fontainebleau Resort's major renovation. The asbestos survey was conducted while the facility was occupied, which required extensive coordination with the owner and operations management such that the inspections could be conducted thoroughly and efficiently. Mr. Zapata was responsible for performing the asbestos survey for this 1,000,000-sf resort that was built in the 1950s and had undergone numerous renovations.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Brian Feury, CIH	13. ROLE IN THIS CONTRACT Certified Industrial Hygienist	14. YEARS EXPERIENCE <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; text-align: center;">a. Total 18</td> <td style="width: 50%; text-align: center;">b. With Current Firm 14</td> </tr> </table>		a. Total 18	b. With Current Firm 14
a. Total 18	b. With Current Firm 14				
15. FIRM NAME AND LOCATION <i>(City and State)</i> Langan Engineering & Environmental Services, Inc., Elmwood Park, New Jersey					
16. EDUCATION <i>(Degree and Specialization)</i> MS – Occupational Safety/Industrial Hygiene MS – Environmental Science		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Certified Industrial Hygienist			
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> American Indoor Air Quality Council; American Board of Industrial Hygiene; American Conference of Governmental Industrial Hygienists					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION <i>(City and State)</i> Broward County Courthouse Fort Lauderdale, FL		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2014		
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager; Responsibilities included daily monitoring and industrial hygiene services as part of the redevelopment of the Courthouse building. Responsible for the weekly coordination of field inspections, reporting and oversight of independent contractors relating to indoor air quality issues.		CONSTRUCTION <i>(if applicable)</i> <input checked="" type="checkbox"/> Check if project performed with current firms		
b.	(1) TITLE AND LOCATION <i>(City and State)</i> Betsy Ross Hotel Miami Beach, Florida		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2006		
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager; Conducted an industrial hygiene investigation within the hotel as part of the building management company's indoor air quality management program. Responsible for the daily coordination of field inspections, coordination with off-site laboratories and reporting.		CONSTRUCTION <i>(if applicable)</i> <input checked="" type="checkbox"/> Check if project performed with current firms		
c.	(1) TITLE AND LOCATION <i>(City and State)</i> Mixed-Use Residential/Commercial Building Miami, Florida		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2005		
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager; Oversaw mold remediation activities at 1101 Brickell Avenue. Indoor air quality monitoring and microbial sampling, design of a microbial remediation strategy, and coordination with the building management company and subcontractors was required to complete job on schedule.		CONSTRUCTION <i>(if applicable)</i> <input checked="" type="checkbox"/> Check if project performed with current firms		
d.	(1) TITLE AND LOCATION <i>(City and State)</i> JL Audio Miramar, Florida		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2015		
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Senior Project Manager; Responsible for the company's annual air permitting requirements. Tasks included data review, emission calculations and regulatory reporting requirements.		CONSTRUCTION <i>(if applicable)</i> <input checked="" type="checkbox"/> Check if project performed with current firms		
e.	(1) TITLE AND LOCATION <i>(City and State)</i> Fontainebleau Resort Miami Beach, FL		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2009		
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager and Lead Field Supervisor; Responsible for conducting an air quality investigation during the gutting and renovation of the Fontainebleau Hotel. The project included the collection of air samples, visual inspection throughout the facility and data interpretation for various parameters. Responsible for the daily coordination with an off-site laboratory and development of risk assessment for the site building.		CONSTRUCTION <i>(if applicable)</i> 2009		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT <i>(Complete one Section E for each key person.)</i>					
12. NAME Michael Szura, CLA, ASLA, LEED AP	13. ROLE IN THIS CONTRACT Sustainability	14. YEARS EXPERIENCE <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">a. TOTAL 21</td> <td style="width: 50%; padding: 2px;">b. WITH CURRENT FIRM 14</td> </tr> </table>		a. TOTAL 21	b. WITH CURRENT FIRM 14
a. TOTAL 21	b. WITH CURRENT FIRM 14				
15. FIRM NAME AND LOCATION <i>(City and State)</i> Langan Engineering & Environmental Services, New Haven, CT					
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> MFA Landscape Architecture BS Business/Minor Botany		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Certified Landscape Architect: New Jersey, Delaware, New York and Pennsylvania			
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION <i>(City and State)</i> Camp Niantic Niantic, Connecticut	(2) YEAR COMPLETED <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">PROFESSIONAL SERVICES 2010</td> <td style="width: 50%; padding: 2px;">CONSTRUCTION <i>(if applicable)</i> 2011</td> </tr> </table>		PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(if applicable)</i> 2011
	PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(if applicable)</i> 2011			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Landscape Project Manager; The first phase of this project includes the construction of an 81,917 SF, \$28,758,411 regional training facility for the Connecticut Army National Guard. The proposed building includes multi-use activities including billeting (dormitory), classrooms, office and meeting space, and kitchen and dining facilities. Design challenges include conformance to the DOD's Anti-Terrorism/Force Protection security requirements, achieving LEED silver. Project was facilitated by the Connecticut Department of Public Works.				
(1) TITLE AND LOCATION <i>(City and State)</i> U.S. Embassy Compound Juarez, Mexico	(2) YEAR COMPLETED <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">PROFESSIONAL SERVICES 2006</td> <td style="width: 50%; padding: 2px;">CONSTRUCTION <i>(if applicable)</i> 2009</td> </tr> </table>		PROFESSIONAL SERVICES 2006	CONSTRUCTION <i>(if applicable)</i> 2009	
PROFESSIONAL SERVICES 2006	CONSTRUCTION <i>(if applicable)</i> 2009				
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Landscape Project Manager; Langan was a key component of the design-build team for a new U.S. Consulate Compound in Juarez, Mexico. This fast-track international project posed numerous challenges for all design and engineering disciplines due to site conditions, security requirements, time constraints and the complexity of structures and uses within the compound. The design complied with LEED-certified standards.					
c.	(1) TITLE AND LOCATION <i>(City and State)</i> New Embassy Compound Panama City, Panama	(2) YEAR COMPLETED <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">PROFESSIONAL SERVICES 2005</td> <td style="width: 50%; padding: 2px;">CONSTRUCTION <i>(if applicable)</i> 2008</td> </tr> </table>		PROFESSIONAL SERVICES 2005	CONSTRUCTION <i>(if applicable)</i> 2008
	PROFESSIONAL SERVICES 2005	CONSTRUCTION <i>(if applicable)</i> 2008			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Landscape Project Manager; Langan was a key component of the design-build team for this New, LEED-Silver, U.S. Embassy Compound. This fast-track international project posed numerous challenges for all design and engineering disciplines due to site conditions, security requirements, time constraints and the complexity of structures and uses on the site. The existing terrain within the 20 acre compound limits included steep slopes and changes in elevation of up to 60m, which had to be shaped to accommodate 8 buildings, pedestrian and vehicular circulation routes, parking areas, and gardens while complying with ADA requirements.				
(1) TITLE AND LOCATION <i>(City and State)</i> Metroplex Plymouth Meeting, Pennsylvania	(2) YEAR COMPLETED <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">PROFESSIONAL SERVICES 2006</td> <td style="width: 50%; padding: 2px;">CONSTRUCTION <i>(if applicable)</i> N/A</td> </tr> </table>		PROFESSIONAL SERVICES 2006	CONSTRUCTION <i>(if applicable)</i> N/A	
PROFESSIONAL SERVICES 2006	CONSTRUCTION <i>(if applicable)</i> N/A				
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Landscape Project Manager; Land development approvals, site planning, landscape, site architecture and site lighting design for 180,000 square feet of Class "A" office space on a 25-acre site. The project involved locating the new buildings and parking facilities on a former quarry site that was partially filled with asbestos-tainted materials.					

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME Christopher Hager, PE, LEED AP		13. ROLE IN THIS CONTRACT Sustainability/Resiliency	
		a. TOTAL 21	b. WITH CURRENT FIRM 21
15. FIRM NAME AND LOCATION (City and State) Langan Engineering and Environmental Services, Inc. , Philadelphia, PA			
16. EDUCATION (DEGREE AND SPECIALIZATION) B.S. Civil Engineering M.S. Hydraulics/Hydrology		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer (PA, NJ, NY, DE) LEED Accredited Professional	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State) Stockton Station Park and Greenway Camden, NJ	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2010	CONSTRUCTION (if applicable) 2010
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Project Manager; Prepared site design construction drawings for demolition of an existing apartment complex and construction of a 16-acre park and greenway walking and biking path with associated amenities. The park is connected with Dudley Grange Park with a 0.5-mile jogging-biking path. Scope of services included site design of multiple sports fields, grading, utility design and stormwater management design.		
b.	(1) TITLE AND LOCATION (City and State) Arbours at Eagle Pointe Philadelphia, PA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2004	CONSTRUCTION (if applicable) 2009
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Project Manager; Prepared construction documents for construction of a 398-unit residential community and community center, 25 acres open space, and associated amenities located in northeast Philadelphia, PA. The proposed community will be constructed on 80 acres of the existing Byberry State Hospital. Scope of services included site layout and design, utility design and permitting, sewer monitoring, and extensive stormwater management design, to satisfy strict Philadelphia regulations.		
c.	(1) TITLE AND LOCATION (City and State) Saint Joseph's University Retail and Parking Garage Philadelphia, Pennsylvania	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2007	CONSTRUCTION (if applicable) 2008
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Project Manager; Prepared land development permitting and construction plans for the urban street-side retail complex and parking garage. Design included substantial stormwater management improvements, including porous paving, underground detention and native vegetation for compliance with strict Philadelphia regulatory requirements.		
d.	(1) TITLE AND LOCATION (City and State) Sustainable Brownfields Development Study Trenton, New Jersey	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2003	CONSTRUCTION (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Project Manager; Participated in a study to provide the City of Trenton with specifications for environmentally appropriate development for three brownfield sites located along the Assunpink Creek. One goal of the study was to support smart growth by ensuring that environmentally sensitive areas in the city are developed appropriately to improve environmental quality. A second study goal was to appropriately manage development pressure. Langan's contribution focused primarily on stormwater retention and detention design, and floodplain management.		
e.	(1) TITLE AND LOCATION (City and State) Capital Improvement and Infrastructure Master Plan Camden, New Jersey	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2004	CONSTRUCTION (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Project Manager; Langan-lead consulting team retained by the N.J. Economic Recovery Board for the City of Camden to prepare a capital improvement and infrastructure master plan. The plan's purpose was to identify critical infrastructure improvements necessary to protect the health and safety of residents, remediate negative environmental impacts, and support future development within Camden. Infrastructure systems included over 145 miles of water mains, 180 miles of combined sewers, 28 combined sewer outfalls, 3 water treatment plans, and a wastewater treatment plant.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT <i>(Complete one Section E for each key person.)</i>							
12. NAME Christopher Glenn, PE, LEED Green Associate	13. ROLE IN THIS CONTRACT Sustainability	14. YEARS EXPERIENCE <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">a. TOTAL</td> <td style="width: 50%; border: none;">b. WITH CURRENT FIRM</td> </tr> <tr> <td style="border: none; text-align: center;">15</td> <td style="border: none; text-align: center;">7</td> </tr> </table>		a. TOTAL	b. WITH CURRENT FIRM	15	7
a. TOTAL	b. WITH CURRENT FIRM						
15	7						
15. FIRM NAME AND LOCATION <i>(City and State)</i> Langan Engineering & Environmental Services, Inc., Oakland, CA							
16. EDUCATION (DEGREE AND SPECIALIZATION) B.S., Biological and Engineering Sciences, Washington University M.S., Civil and Environmental Engineering, Stanford University		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Engineer (PE) in California, Oregon, and Washington LEED Green Associate OSHA Training (40-Hour HAZWOPER, HAZWOPER On-Site Safety Officer, First Aid/CPR)					
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Sustainable Remediation Forum (SuRF)							
19. RELEVANT PROJECTS							
a.	(1) TITLE AND LOCATION <i>(City and State)</i> Former George Air Force Base Victorville, California	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td style="border: none; text-align: center;">2009</td> <td style="border: none;"></td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>	2009	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>					
	2009						
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Project Manager and Lead Engineer; Facility-wide remediation program conducted by the Air Force Center for Environmental Excellence at this former Air Force base. Responsibilities included project management and engineering associated with constructing and operating two soil-vapor extraction systems, a bioventing system, and a groundwater pump and treat system. Designed and managed construction of an expansion to the groundwater system. Performed landfill maintenance and monitoring at five landfills at this site. Also served as project manager for a groundwater and contaminant transport modeling effort that will be used for further remediation of the groundwater.							
b.	(1) TITLE AND LOCATION <i>(City and State)</i> Remedial Design, National Semiconductor Corporation, Santa Clara County, California	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td style="border: none; text-align: center;">2009</td> <td style="border: none;"></td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>	2009	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>					
	2009						
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Lead Engineer; Biological remediation of chlorinated compounds at the National Semiconductor property. Performed a feasibility study to evaluate remediation technologies including reductive dechlorination, zero-valent iron wall injection, air sparging, and chemical oxidation. Designed, implemented, and monitored a vegetable oil injection strategy to remediate chlorinated compounds in groundwater.							
c.	(1) TITLE AND LOCATION <i>(City and State)</i> Hunter's Point Naval Shipyard – Remediation Reviewer San Francisco, CA	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td style="border: none; text-align: center;">2013</td> <td style="border: none;"></td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>	2013	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>					
	2013						
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Peer Reviewer; On behalf of the City of San Francisco for the remediation activities at Hunter' Point Naval Shipyard, responsibilities included working with Navy contractors to improve remediation strategies and implementation, and reviewing field results to evaluate effectiveness. Projects have included review of zero-valent iron (ZVI) remediation, soil vapor extraction systems, soil capping for reduction in risk to human health, shoreline revetment, and implementation of institutional controls.							
d.	(1) TITLE AND LOCATION <i>(City and State)</i> Remedial Design, Sunnyvale Town Center Sunnyvale, California	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td style="border: none; text-align: center;">2008</td> <td style="border: none;"></td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>	2008	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>					
	2008						
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Design Engineer; In-situ remediation of PCE in soil vapor and groundwater at Sunnyvale Town Center. Designed a 2,500 scfm SVE system to remediate soil and soil vapor. Also designed a zero-valent iron injection array, installed using pneumatic fracturing, and a vegetable oil biobarrier to remediated groundwater.							
e.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Lodi Lodi, CA	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td style="border: none; text-align: center;">2011</td> <td style="border: none; text-align: center;">N/A</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>	2011	N/A
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>					
	2011	N/A					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Project Manager; Lead engineering for the design of a dual-phase extraction system to remediate PCE and TCE from the subsurface in Lodi, California. Responsibilities include engineering associated with dual-phase system design, collection of groundwater and vapor chemical data, design and installation of a dual-phase well, permitting coordination, and oversight of contractors. Also the lead engineer for the operation and maintenance of a soil vapor extraction system, including system monitoring, maintenance, and air discharge permitting and compliance.							

STANDARD FORM 330 (6/2004)

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME Laura Miner, QEP	13. ROLE IN THIS CONTRACT Senior Project Manager, Environmental Compliance	14. YEARS EXPERIENCE a. TOTAL 23 b. WITH CURRENT FIRM 1	
15. FIRM NAME AND LOCATION (City and State) Langan Engineering and Environmental Services, Inc., Doylestown, PA			
16. EDUCATION (DEGREE AND SPECIALIZATION) B.A. Chemistry, Minor: Environmental Science		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Qualified Environmental Professional (QEP), Certification Number #05020008 (5/30/2002- Present)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) OSHA Hazwoper 29 CFR 1910.120; Board of Directors – Mid-Atlantic States Air and Waste Management Assoc. (A&WMA)			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State) Greenhouse Gas (GHG) Recordkeeping, Reporting, and Permitting Multiple Facilities	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2010-Present	CONSTRUCTION (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager; Responsible for preparing Greenhouse Gas (GHG) applicability determinations, inventories, recordkeeping and reporting using the EPA eGGRT online system for multiple facilities subject to EPA's Greenhouse Gas Reporting Rule (74 FR 56260). Developed GHG reduction strategies in support of climate action plans and sustainability reporting. Calculated GHG emissions for permit applications and evaluated permitting requirements and applicability to the EPA Tailoring Rule. Fees varied according to project. <input checked="" type="checkbox"/> Check if project performed with current firm.		
b.	(1) TITLE AND LOCATION (City and State) Global Reporting Initiative (GRI) Reporting and EMS Siemens Demag Delaval Turbomachinery, Inc. Trenton, NJ	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2000-Present	CONSTRUCTION (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager; Responsible for providing comprehensive review of sustainability program and assisting the facility in preparing the annual GRI report. Services included documenting baseline for air (carbon footprint), waste, water and energy usage. Researched alternative methods for waste disposal for items such spent sand from blasting operations and solvent wipes. Developed an electronic environmental management system to meet ISO 14001 standard and track compliance with EHS aspects, environmental laws and regulations and task assignments from facility specific permits and plans. Prepared air quality permits in RADUIS, NJPDES stormwater permit, SPCC and PPC Plans. Managed site demolition project, asbestos removal, and ISRA site investigation project. Project fees were approximately \$100,000/year. <input checked="" type="checkbox"/> Check if project performed with current firm.		
c.	(1) TITLE AND LOCATION (City and State) Cogeneration Plant – Reading Hospital and Medical Center, GHG Emission Reading, PA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2010	CONSTRUCTION (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Task Manager; Responsible for the preparation of a Plan Approval Application for a new cogeneration plant installed at an existing medical facility in order to allow the facility to power its buildings and equipment while selling excess power back to the grid at a profit. The new cogeneration plant included turbines firing natural gas, waste heat recovery boilers firing waste gas, and an emergency generator firing No. 2 fuel oil. Calculated greenhouse gas (GHG) emissions for the air permit and evaluated offsets with the reduced boiler usage. Project fee was approximately \$35,000. <input type="checkbox"/> Check if project performed with current firm.		
d.	(1) TITLE AND LOCATION (City and State) Comprehensive Multi-Media Environmental Compliance Audit, University of Pittsburgh, Pittsburgh, PA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2002	CONSTRUCTION (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager; Responsible for conducting a third-party comprehensive multimedia audit of the campus. The audit was conducted in preparation for an EPA Multi-Media audit. The audit included a review of compliance with air quality, stormwater, hazardous waste, residual waste, wastewater discharge, PCB's, and laboratory chemical management. Responsibilities included leading teams that conducted site review, conducted daily de-briefing of findings to the University and implemented corrective actions. The comprehensive compliance audit was conducted over a 4 day period for a fee of approximately \$25,000. <input type="checkbox"/> Check if project performed with current firm.		
e.	(1) TITLE AND LOCATION (City and State) Title V Permitting and Air Emission Inventory, University of Arizona Tucson, Arizona	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 1996	CONSTRUCTION (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Team Leader; Responsible for collecting data and preparing a campus-wide air emission inventory for air emission sources at the university. The emissions inventory data was then used to prepare a Title V Permit. Sources included the physical plant, cooling towers, maintenance, paint shop operations, and laboratories. The project included a statistical analysis to estimate laboratory emissions based on site inventories and purchasing data. The project also included meeting with Pima County Department of Air Quality and lead to a boiler replacement program to reduce NOx emissions to meet air quality standards. Project Fee was approximately \$120,000. <input type="checkbox"/> Check if project performed with current firm.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT <i>(Complete one Section E for each key person.)</i>							
12. NAME Raymond Lees, PE BCEE, CHMM	13. ROLE IN THIS CONTRACT Remediation	14. YEARS EXPERIENCE <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">a. TOTAL</td> <td style="width: 50%; border: none;">b. WITH CURRENT FIRM</td> </tr> <tr> <td style="text-align: center; border: none;">25</td> <td style="text-align: center; border: none;">2</td> </tr> </table>		a. TOTAL	b. WITH CURRENT FIRM	25	2
a. TOTAL	b. WITH CURRENT FIRM						
25	2						
15. FIRM NAME AND LOCATION <i>(City and State)</i> Langan Engineering & Environmental Services, Inc., Elmwood Park, NJ							
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> ME, Environmental Engineering, Clemson University B.Sc., Civil Engineering, Drexel University		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Engineer FL, DE, NY, PA, OH, NJ, MD; Board Certified Environmental Engineer (BCEE); Certified Hazardous Materials Manager; New Jersey N2 Operator; Certified Underground Storage Tank Professional; Sewage Plant and System Operator; Wastewater Treatment Plant Operator					
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> American Academy of Environmental Engineers, Chief Examiner American Society of Civil Engineers, Philadelphia Section, Chair Env. Group-1998 Chi Epsilon - National Civil Engineering Honor Society National Society of Professional Engineers Project Management Institute Water Pollution Control Federation							
19. RELEVANT PROJECTS							
a.	(1) TITLE AND LOCATION <i>(City and State)</i> Remedial Design New Jersey	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td style="text-align: center; border: none;">2011</td> <td style="border: none;"></td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>	2011	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>					
	2011						
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm. Project Manager; Responsible for remedial design for a landfill cap and soil remediation at a CERCLA site in New Jersey. The remedial design for the 10-acre landfill consisted of multicomponent RCRA cap, groundwater interception trench, and gabion stability wall. Stream restoration, including wetland mitigation, was integrated into the soil remediation component of the project.							
b.	(1) TITLE AND LOCATION <i>(City and State)</i> Concept Design Pennsylvania	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td style="text-align: center; border: none;">2011</td> <td style="border: none;"></td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>	2011	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>					
	2011						
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm. Project Manager; Managed a conceptual design for expansion of a 0.1-mgd sanitary landfill leachate treatment plant. The treatment system consisted of a biological sequencing batch reactor, metals precipitation, and clarification.							
c.	(1) TITLE AND LOCATION <i>(City and State)</i> 151 Biscayne North Miami, Florida	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td style="text-align: center; border: none;">Ongoing</td> <td style="border: none;"></td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>	Ongoing	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>					
	Ongoing						
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Lead Remediation Engineer; This project involves the amenities complex of a residential development being built on a former landfill. The complex will include a guard house, a pool, a one-story event room, one-story men's and women's shower and bathroom facilities, an athletic court, and a children's play area. The scope of work includes the design of a methane gas management system to monitor methane gas being produced by the landfill.							
d.	(1) TITLE AND LOCATION <i>(City and State)</i> Morgan's Point Environmental Services South Hampton, Bermuda	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td style="text-align: center; border: none;">Ongoing</td> <td style="border: none;"></td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>	Ongoing	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>					
	Ongoing						
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Lead Remediation Engineer; Langan is acting as the specialist remediation consultant for the Government of Bermuda for this project that involves temporary landfill services, sediment investigations, QA/QC and fill testing, and cave investigations. The scope of work includes validation; background, design and detailing, and tender assistance; and supervising and reporting activities.							
e.	(1) TITLE AND LOCATION <i>(City and State)</i> RCRA RFI/CMS/CMA Pennsylvania	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td style="text-align: center; border: none;">2010</td> <td style="border: none;"></td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>	2010	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>					
	2010						
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm. Project Manager; Investigated and characterized volatile organic compounds and metals in groundwater, fractured bedrock, soil and sediment for volatile organic compounds and metals. An interim corrective action involving groundwater recovery and treatment was designed and implemented to control off-site migration of impacted groundwater.							

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT <i>(Complete one Section E for each key person.)</i>					
12. NAME Fangmei Zhang, PhD, PE	13. ROLE IN THIS CONTRACT Remediation	14. YEARS EXPERIENCE <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; text-align: center;"> a. TOTAL <div style="border: 1px solid black; width: 100px; margin: 0 auto; text-align: center;">10</div> </td> <td style="width: 50%; border: none; text-align: center;"> b. WITH CURRENT FIRM <div style="border: 1px solid black; width: 100px; margin: 0 auto; text-align: center;">2</div> </td> </tr> </table>		a. TOTAL <div style="border: 1px solid black; width: 100px; margin: 0 auto; text-align: center;">10</div>	b. WITH CURRENT FIRM <div style="border: 1px solid black; width: 100px; margin: 0 auto; text-align: center;">2</div>
a. TOTAL <div style="border: 1px solid black; width: 100px; margin: 0 auto; text-align: center;">10</div>	b. WITH CURRENT FIRM <div style="border: 1px solid black; width: 100px; margin: 0 auto; text-align: center;">2</div>				
15. FIRM NAME AND LOCATION (City and State) Langan Engineering & Environmental Services, Inc., Elmwood Park, NJ					
16. EDUCATION (DEGREE AND SPECIALIZATION) Ph.D., Civil Engineering, Case Western Reserve University M.S., Environmental Engineering, Tongji University, Shanghai, China B.S., Environmental Engineering, Southeast University, Nanjing, China		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer FL			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) 151 Biscayne North Miami, Florida	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; text-align: center;"> PROFESSIONAL SERVICES <div style="border: 1px solid black; width: 100px; margin: 0 auto; text-align: center;">Ongoing</div> </td> <td style="width: 50%; border: none; text-align: center;"> CONSTRUCTION (if applicable) </td> </tr> </table>		PROFESSIONAL SERVICES <div style="border: 1px solid black; width: 100px; margin: 0 auto; text-align: center;">Ongoing</div>	CONSTRUCTION (if applicable)
	PROFESSIONAL SERVICES <div style="border: 1px solid black; width: 100px; margin: 0 auto; text-align: center;">Ongoing</div>	CONSTRUCTION (if applicable)			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Remediation Engineer; This project involves the amenities complex of a residential development being built on a former landfill. The complex will include a guard house, a pool, a one-story event room, one-story men's and women's shower and bathroom facilities, an athletic court, and a children's play area. The scope of work includes the design of a methane gas management system to monitor methane gas being produced by the landfill.				
(1) TITLE AND LOCATION (City and State) Roscoe Warren Park Environmental Services Homestead, Florida	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; text-align: center;"> PROFESSIONAL SERVICES <div style="border: 1px solid black; width: 100px; margin: 0 auto; text-align: center;">Ongoing</div> </td> <td style="width: 50%; border: none; text-align: center;"> CONSTRUCTION (if applicable) </td> </tr> </table>		PROFESSIONAL SERVICES <div style="border: 1px solid black; width: 100px; margin: 0 auto; text-align: center;">Ongoing</div>	CONSTRUCTION (if applicable)	
PROFESSIONAL SERVICES <div style="border: 1px solid black; width: 100px; margin: 0 auto; text-align: center;">Ongoing</div>	CONSTRUCTION (if applicable)				
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Remediation Engineer; Langan was selected to implement a groundwater monitoring program to comply with the Miami-Dade County Regulatory and Economic Resources Department for Environmental Resources Management (DERM)-approved Remedial Action Plan (RAP) for this recreational park housed on the former Homestead Landfill.					
c.	(1) TITLE AND LOCATION (City and State) Biscayne Landing North Miami, Florida	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; text-align: center;"> PROFESSIONAL SERVICES <div style="border: 1px solid black; width: 100px; margin: 0 auto; text-align: center;">2007</div> </td> <td style="width: 50%; border: none; text-align: center;"> CONSTRUCTION (if applicable) </td> </tr> </table>		PROFESSIONAL SERVICES <div style="border: 1px solid black; width: 100px; margin: 0 auto; text-align: center;">2007</div>	CONSTRUCTION (if applicable)
	PROFESSIONAL SERVICES <div style="border: 1px solid black; width: 100px; margin: 0 auto; text-align: center;">2007</div>	CONSTRUCTION (if applicable)			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm. Environmental Engineer; The project consisted of the development of a residential community over a previous municipal waste landfill. The development consisted of mixed structure types, varying from low-rise single family homes, low-rise townhouse buildings and mid to high-rise towers.				
(1) TITLE AND LOCATION (City and State) Morgan's Point Environmental Services South Hampton, Bermuda	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; text-align: center;"> PROFESSIONAL SERVICES <div style="border: 1px solid black; width: 100px; margin: 0 auto; text-align: center;">Ongoing</div> </td> <td style="width: 50%; border: none; text-align: center;"> CONSTRUCTION (if applicable) </td> </tr> </table>		PROFESSIONAL SERVICES <div style="border: 1px solid black; width: 100px; margin: 0 auto; text-align: center;">Ongoing</div>	CONSTRUCTION (if applicable)	
PROFESSIONAL SERVICES <div style="border: 1px solid black; width: 100px; margin: 0 auto; text-align: center;">Ongoing</div>	CONSTRUCTION (if applicable)				
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Environmental Engineer; Langan is acting as the specialist remediation consultant for the Government of Bermuda for this project that involves temporary landfill services, sediment investigations, QA/QC and fill testing, and cave investigations. The scope of work includes validation; background, design and detailing, and tender assistance; and supervising and reporting activities.					
e.	(1) TITLE AND LOCATION (City and State) Landfill Groundwater Monitoring Monroe County, Florida	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; text-align: center;"> PROFESSIONAL SERVICES <div style="border: 1px solid black; width: 100px; margin: 0 auto; text-align: center;">Ongoing</div> </td> <td style="width: 50%; border: none; text-align: center;"> CONSTRUCTION (if applicable) </td> </tr> </table>		PROFESSIONAL SERVICES <div style="border: 1px solid black; width: 100px; margin: 0 auto; text-align: center;">Ongoing</div>	CONSTRUCTION (if applicable)
	PROFESSIONAL SERVICES <div style="border: 1px solid black; width: 100px; margin: 0 auto; text-align: center;">Ongoing</div>	CONSTRUCTION (if applicable)			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Environmental Engineer; Langan is monitoring groundwater semi-annually at three county landfills – Cudjoe Key, Long Key, and Key Largo – as part of the county's solid waste permits from the Florida Department of Environmental Protection (FDEP).				

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME Stewart Abrams, P.E.		13. ROLE IN THIS CONTRACT Remediation	
		14. YEARS EXPERIENCE	
		a. TOTAL 29	b. WITH CURRENT FIRM 4
15. FIRM NAME AND LOCATION (City and State) Langan Engineering & Environmental Services, Inc., Miami Lakes, FL			
16. EDUCATION (DEGREE AND SPECIALIZATION) M.S., Environmental Sciences, Rutgers University, 1991 New York University, Graduate School of Public Administration, 1983 B.S., Civil Engineering, Rutgers University, 1981		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Professional Engineer I NJ New Jersey Subsurface Evaluator and UST Certification	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Active member of Sustainable remediation Forum (SURF)			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State) SL Industries, Inc. Camden, New Jersey	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2010	CONSTRUCTION (if applicable) n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Served as technical director for major treatability evaluation and pilot study for the use of Calcium Polysulfide as a reducing agent for Cr+6 to Cr+3 in both the unsaturated and saturated zone. Treatability studies involved both microcosm testing and column testing to simulate the actual flow through the aquifer. The field pilot test addressed 2500 square feet down to the water table, approximately 15 ft below ground surface. <input checked="" type="checkbox"/> Check if project performed with current firm.		
b.	(1) TITLE AND LOCATION (City and State) Confidential Fortune 500 Manufacturer Western New York	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2010	CONSTRUCTION (if applicable) n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager and technical director for performance carbon footprint and sustainability evaluations of 3 western New York state Superfund sites. Identified factors contributing to the carbon footprint and recommended strategies to reduce carbon footprint, lower energy costs and improve the sustainability of all three remediation systems. <input checked="" type="checkbox"/> Check if project performed with current firm.		
c.	(1) TITLE AND LOCATION (City and State) General Electric Schenectady, New York	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2007	CONSTRUCTION (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Served as Technical Director of the design of a comprehensive remediation program for a New York State site involving the bioremediation of three separate VOC plumes, as well as the collection and treatment of leachate seeps. Supported GE Researchers in the design and execution of a laboratory flow through column test utilizing innovative sulfate reduction techniques to remediate a BTEX plume. In turn, lead the scale up of this column study into a design. <input type="checkbox"/> Check if project performed with current firm.		
d.	(1) TITLE AND LOCATION (City and State) Honeywell International Groton, Massachusetts	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2007	CONSTRUCTION (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Site with both Cr+6 and TCE contamination. A wide range of both chemical and biological reducing agents were laboratory tested and reviewed as part of a comprehensive feasibility study. Zero-valent iron, bioremediation, calcium polysulfide, and ferrous sulfate were all tested. Directed the field pilot testing of bioaugmentation and nano-scale zero valent iron at the sites. Bioaugmentation selected for full scale, since it was highly effective for both Cr+6 and TCE. Remediation targets are both Chromium and chlorinated solvents. Working around an existing pump and treat system. <input type="checkbox"/> Check if project performed with current firm.		
e.	(1) TITLE AND LOCATION (City and State) Greenberg Gibbons Commercial Annapolis, Maryland	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2008	CONSTRUCTION (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Directed the injection of over 300,000 pounds of potassium permanganate for chlorinated solvent destruction at a large Brownfield site in Maryland. Extensive use of horizontal wells. Work being performed under a fixed price contract with blended finite insurance. Prudential Real Estate is a significant investor in this program. <input type="checkbox"/> Check if project performed with current firm.		

Subconsultant Resumes

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Tyler Chappell	13. ROLE IN THIS CONTRACT Vice President	14. YEARS EXPERIENCE	
		a. TOTAL 12	b. WITH CURRENT FIRM 5

15. FIRM NAME AND LOCATION (City and State)

The Chappell Group, Inc.

Pompano Beach, FL

16. EDUCATION (DEGREE AND SPECIALIZATION)

Bachelor of Science, Texas Christian University, August 1997, Environmental Science

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

- South Florida Association of Environmental Professionals, Past President
- Florida Association of Environmental Professionals, Past Board Member
- Florida Inland Navigation District, Broward Commissioner

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State) Children's Reading Center & Museum Davie, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2009	CONSTRUCTION (If applicable) 2010
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE (\$100,000) The project consisted of preliminary environmental reviews and jurisdictional wetland permitting for a site designated for the development of a Children's Reading Center. TCG provided all environmental assessment, local, state and federal environmental permitting services for the project.		
<input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION (City and State) School Board of Broward County Broward County, FL Biological Assets	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2009	CONSTRUCTION (If applicable)
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE (\$75,000) The project consisted of a pilot project for the review, assessment and quantification of biological assets associated with existing school sites within Broward County. TCG provided biological assessment and data analysis for the project, along with site inspection and environmental survey services with the survyor of record.		
<input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION (City and State) SBBC Phase I ESAs Broward County, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2008	CONSTRUCTION (If applicable)
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE (\$25,000) TCG provided all services related to Environmental Site Assessments for various schools throughout Broward County.		
<input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		
<input type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		
<input type="checkbox"/> Check if project performed with current firm		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME <u>Matthew Mitchell</u>	13. ROLE IN THIS CONTRACT Senior Project Biologist	14. YEARS EXPERIENCE	
		a. TOTAL 6	b. WITH CURRENT FIRM 4
15. FIRM NAME AND LOCATION (City and State) The Chappell Group, Inc. Pompano Beach, FL			
16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, Florida State University Tallahassee, August 2000, Environmental Science Master of Science, Nova Southeastern University Fort Lauderdale, October 2006, Marine Biology		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) <ul style="list-style-type: none"> • South Florida Association of Environmental Professionals, Secretary • International Society of Arboriculture, Certified Arborist 			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Children's Reading Center & Museum Davie, FL	2009	2010
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm (\$100,000) The project consisted of preliminary environmental reviews and jurisdictional wetland permitting for a site designated for the development of a Children's Reading Center. TCG provided all environmental assessment, local, state and federal environmental permitting services for the project.		
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
School Board of Broward County Broward County, FL Biological Assets	PROFESSIONAL SERVICES 2009	CONSTRUCTION (If applicable)
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm (\$75,000) The project consisted of a pilot project for the review, assessment and quantification of biological assets associated with existing school sites within Broward County. TCG provided biological assessment and data analysis for the project, along with site inspection and environmental survey services with the survivor of record.		
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
SBBC Phase I ESAs Broward County, FL	PROFESSIONAL SERVICES 2008	CONSTRUCTION (If applicable)
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm (\$25,000) TCG provided all services related to Environmental Site Assessments for various schools throughout Broward County.		
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME Patrick Murphy	13. ROLE IN THIS CONTRACT Project Biologist	14. YEARS EXPERIENCE	
		a. TOTAL 3	b. WITH CURRENT FIRM 3

15. FIRM NAME AND LOCATION (City and State) The Chappell Group, Inc.	Pompano Beach, FL
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16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, Nova Southeastern University, June 2004, Environmental Science	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
<ul style="list-style-type: none"> • South Florida Association of Environmental Professionals, Member • International Society of Arboriculture, Certified Arborist • Certified Sea Turtle Lighting - NESTS - Neighbors Ensuring Sea Turtle Survival, Member

19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State) Children's Reading Center & Museum Davie, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2009	CONSTRUCTION (If applicable) 2010
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE (\$100,000) The project consisted of preliminary environmental reviews and jurisdictional wetland permitting for a site designated for the development of a Children's Reading Center. TCG provided all environmental assessment, local, state and federal environmental permitting services for the project.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (City and State) School Board of Broward County Broward County, FL Biological Assets	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2009	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE (\$75,000) The project consisted of a pilot project for the review, assessment and quantification of biological assets associated with existing school sites within Broward County. TCG provided biological assessment and data analysis for the project, along with site inspection and environmental survey services with the surveyor of record.	<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (City and State) SBBC Phase I ESAs Broward County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2008	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE (\$25,000) TCG provided all services related to Environmental Site Assessments for various schools throughout Broward County.	<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT <i>(Complete one Section E for each key person.)</i>							
12. NAME Joseph N. Ziegler, P.E., B.C., P.S.S.C.	13. ROLE IN THIS CONTRACT President	14. YEARS EXPERIENCE <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">a. TOTAL</td> <td style="width: 50%; border: none;">b. WITH CURRENT FIRM</td> </tr> <tr> <td style="text-align: center; border: none;">25</td> <td style="text-align: center; border: none;">21</td> </tr> </table>		a. TOTAL	b. WITH CURRENT FIRM	25	21
a. TOTAL	b. WITH CURRENT FIRM						
25	21						
15. FIRM NAME AND LOCATION <i>(City and State)</i> ENGINEERED ENVIRONMENTAL SOLUTIONS, INC., Lantana, FL							
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> University of Florida, Gainesville Bachelor of Science in Civil Engineering, 1989 Master of Engineering, 1991		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> State of Florida Licensed Professional Engineer - No. 49375 State of Florida Certified Building Contractor- No. CBCO58400 State of Florida Certified Pollutant Storage Specialty Contractor - PCC056821					
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>							
19. RELEVANT PROJECTS							
a.	(1) TITLE AND LOCATION <i>(City and State)</i> Beckman Coulter, Hialeah Miami-Dade County, Florida	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td style="text-align: center; border: none;">NA</td> <td style="text-align: center; border: none;">2010</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>	NA	2010
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	NA	2010					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Mr. Ziegler served as building contractor/pollutant storage contractor as EESI provided spill cleanup services for a 500-gallon diesel surface spill at an industrial location in Hialeah. The scope of work included the excavation of test pits, installation of horizontal and vertical recovery wells, excavation of contaminated soil, the recovery of product with surface skimming, and backfilling the excavation.							
b.	(1) TITLE AND LOCATION <i>(City and State)</i> Boca Raton Shell Boca Raton, Florida	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td style="text-align: center; border: none;">NA</td> <td style="text-align: center; border: none;">2009</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>	NA	2009
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(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Mr. Ziegler served as building contractor/pollutant storage contractor for the complete demolition of the service station, removal of the complete fueling system including three 8,000-gallon, two 500-gallon and one 250-gallon USTS and dispensers, excavation, transportation and disposal of contaminated soil, installation of remedial system, and fabrication and installation of remedial equipment.							
c.	(1) TITLE AND LOCATION <i>(City and State)</i> Enterprise Rent A Car Melbourne, Florida	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td style="text-align: center; border: none;">NA</td> <td style="text-align: center; border: none;">2010</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>	NA	2010
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(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm. Mr. Ziegler served as building contractor/pollutant storage contractor for the demolition of the fueling canopy, dispensers and the removal of a 12,000-gallon UST and the installation of a 3,000-gallon AST.							
d.	(1) TITLE AND LOCATION <i>(City and State)</i> National Car Rental Panama City, Florida	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td style="text-align: center; border: none;">NA</td> <td style="text-align: center; border: none;">2009</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>	NA	2009
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e.	(1) TITLE AND LOCATION <i>(City and State)</i> Medical Manufacturing Facility, Hialeah, FL	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td style="text-align: center; border: none;">NA</td> <td style="text-align: center; border: none;">2010</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>	NA	2010
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STANDARD FORM 330 (6/2004)

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT <i>(Complete one Section E for each key person.)</i>							
12. NAME Kevin S Rockett, PG	13. ROLE IN THIS CONTRACT Senior Site Supervisor/ Project Geologist	14. YEARS EXPERIENCE <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">a. TOTAL</td> <td style="width: 50%; border: none;">b. WITH CURRENT FIRM</td> </tr> <tr> <td style="text-align: center; border: none;">23</td> <td style="text-align: center; border: none;">21</td> </tr> </table>		a. TOTAL	b. WITH CURRENT FIRM	23	21
a. TOTAL	b. WITH CURRENT FIRM						
23	21						
15. FIRM NAME AND LOCATION <i>(City and State)</i> ENGINEERED ENVIRONMENTAL SOLUTIONS, INC., Lantana, FI							
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Florida Atlantic University, Boca Raton, Florida Bachelor of Science in Geology, 1996		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> State of Florida Licensed Professional Geologist - No. 2329					
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>							
19. RELEVANT PROJECTS							
a.	(1) TITLE AND LOCATION <i>(City and State)</i> Beckman Coulter, Hialeah Miami-Dade County, Florida	(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td style="text-align: center; border: none;">NA</td> <td style="text-align: center; border: none;">2010</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>	NA	2010
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STANDARD FORM 330 (6/2004)

Alexander Front

Education and Certification

- Deerborne High School, Coral Gables, Florida, Graduated: 1981
- Pittsburgh Testing Laboratory, Asbestos Air Sample Analysis
- Pittsburgh Testing Laboratory, Asbestos Bulk Sample Analysis
- Arch Training Services, Inc., Sampling and Evaluating Airborne Asbestos Dust NIOSH 582 Equivalency
- Georgia Institute of Technology, Supervision of Asbestos Abatement Projects
- Louisiana State University, Asbestos in Building and Assessment
- Mayhew Environmental Training Associates
 - AHERA Asbestos Abatement Supervisor
 - AHERA Inspector Refresher Training
 - Management Planner
- State of Florida Radon Measurement Specialist
- Registered Industrial Hygiene Technologist
- Florida Asbestos abatement contractor

Additional certifications available upon request

Specialized Training

- Asbestos Project Management and Site Supervision
- Asbestos Abatement for Inspectors and Management Planners
- Asbestos Air Monitoring
- Asbestos L.E.A. Awareness
- Sampling and Microscopic Evaluation of Airborne Asbestos Dust (NIOSH 582)
- Deleader Supervisor (Mass. Deleader)
- State certified Asbestos & Lead Instructor
- E.P.A. Lead Risk Assessor
- E.P.A. Lead Supervisor
- Certified Indoor Environmentalist

Professional Experience

- Phase I & II Environmental Audits
- Asbestos Material Surveys and Air Monitoring
- Asbestos Removal - Supervision
- Academic Instruction of Industrial Personnel in:

EPA-AHERA

- Asbestos Worker
- Asbestos Contractor/Supervisor
- Asbestos Inspector/Management Planner
- Refresher Course for all Asbestos

JEFF BAYLOR
PROJECT MANAGER / CLIENT SERVICES MANAGER

EDUCATION

B.S., Biology (Pennsylvania State University, 1996)

REGISTRATIONS

American Chemical Society

EXPERIENCE

Mr. Baylor has been a project manager for the laboratory since 2001 specializing in landfills, NPDES, drinking water, solid waste, and other State programs. His many years of service with the laboratory have given him a background that allows him to help clients with their site- specific work plans, applicable methodologies, turnaround time requirements, and project data quality objectives. In the capacity as Project Manager, Mr. Baylor provides his Clients as the one point of contact for all their production and technical needs. He serves as a liaison between the Client and the laboratory operations and currently serves a diverse group of Clients, including many cities, counties, utilities, and consultants.

Prior to assuming the position of Project Manager, Mr. Baylor was the Supervisor of the laboratory's Biology Laboratory. He oversaw all areas of the department including the Microbiology and Toxicity sections. For the Microbiology section, he was in charge of the following: media preparation; quality control; detection and enumeration of densities of Fecal and total Coliforms, *Fecal Streptococcus*, *Enterococcus*, and heterotrophic bacteria. In 2002, he led the effort for ELAB to become EPA certified for testing for *Aeromonas* bacteria in drinking water under the Unregulated Contaminant Monitoring Rule (UCMR) program. For the toxicity section, he was responsible for organism breeding, quality control, freshwater and saltwater bioassays using EPA certified methods for both Acute and Chronic tests, and statistical evaluation of toxicity tests performed for client's NPDES permits.

Prior to this, Mr. Baylor supervised the Inorganic Department for several years after working as an analyst in the Metals and General Chemistry departments for six years. While in the General Chemistry department, he utilized gravimetric, potentiometric, titrimetric, and colorimetric approved methodologies to test samples of varied matrices including drinking water, ground water, surface water, waste water, solids, and sludges. He used a wide variety of instrumentation including manual and automated colorimetric analyzers, Ion Chromatograph, IR Chromatograph, and digestion/distillation apparatus. In the Metals department, he was responsible for all aspects of testing including digestion, analytical, and quality control. He is proficient with the instrumentation used for the quantification of metallic elements such as flame and graphite furnace AA and cold vapor analysis of mercury.

During his tenure, Mr. Baylor help set up the Toxicity Characteristic Leaching Procedure methods now used by the laboratory for testing materials for clients under the RCRA program. He also supervised and conducted the setup and incubation of samples for Simulated Distribution Systems (SDS) and Biodegradable Organic Carbon (BDOC) analysis, which is related to the Information Collection Rule program.

John C. Maffett
841 Somerset Avenue
Davie, FL 33325

QUALIFICATIONS

Experience in a variety of drilling projects including: shallow monitor wells, deep monitor wells, double-cased wells, recovery wells, vapor extraction wells, split spoons, rock coring, auger borings, NX casing installations and field management. Knowledge in the handling of hydrocarbons, solvents and many other contaminants in Level A, B, and C Operations.

PROFESSIONAL HISTORY

15 years experience in the Environmental Drilling Industry. Currently serving as President and Co-Owner of Enviro-Drill, Inc. since 2004. Previously employed by Precision Drilling, served as Drilling Manager. Also worked for GFA International and Earth Tech Drilling.

EDUCATION

- High School Graduate, South Dade High School
- OSHA 40-hour Health and Safety Training
- OSHA 8-hour Health and Safety Refresher Training
- Class A CDL

PROFESSIONAL AFFILIATION

- National Ground Water Association
- Florida Ground Water Association

PROFESSIONAL REGISTRATION

- Water Well Contractor #11228

Mark G. James
800 AltaVista Terrace
Davie, FL 33325

QUALIFICATIONS

Experience in a variety of drilling projects including: shallow monitor wells, deep monitor wells, double-cased wells, recovery wells, vapor extraction wells, split spoons, rock coring, auger borings and NX casing installations. Knowledge in the handling of hydrocarbons, solvents and many other contaminants in Level A, B, and C Operations.

PROFESSIONAL HISTORY

Over 25 years of experience in the Environmental Drilling Industry. Currently serving as Vice President and Co-Owner of Enviro-Drill, Inc. since 2004. Previously employed by GFA International and served as South Florida Drilling Manager. Responsibilities included management of all drilling activities. Also employed by US Drilling, Inc. and served as Operations Manager, overseeing all drilling activities.

EDUCATION

- High School Graduate – Miramar High School
- Certified Fire-Fighter, Broward County
- OSHA 40-Hour Health and Safety and 8-Hour Supervisor Training
- 1000 hour Masonry Construction – Sheridan Vocational
- Safety Training and Driver Training Airside Operations – Miami International Airport

PROFESSIONAL AFFILIATION

- National Groundwater Association Member
- Florida Groundwater Association Member

PROFESSIONAL REGISTRATION

- Licensed Water Well Contractor – S.F.W.M.D. #11031
- Collier County Monitor Well Contractor #31246



Michael R. Goldstein, Esq.
The Goldstein Environmental Law Firm, P.A.
One Southeast Third Avenue, Suite 2120, Miami, FL 33131
mgoldstein@goldsteinenvlaw.com

Curriculum Vitae

Michael R. Goldstein, Managing Shareholder of The Goldstein Environmental Law Firm and a Martindale-Hubbell AV rated attorney, practices exclusively in the areas of environmental law and environmental redevelopment for a broad range of clients, including retail, residential, and industrial developers, public and private companies, lenders, and local governments. A major aspect of Mr. Goldstein's environmental legal practice involves working closely and extensively with local governments, real estate development principals, and engineering, planning, and design professionals to help coordinate federal, state and local regulatory approvals for complex retail, industrial, residential, mixed use, and marina related projects throughout the State of Florida. His practice has a heavy emphasis on the remediation, financing, and beneficial reuse of contaminated sites and involves a broad array of Brownfields related transactional, administrative, regulatory, legal, legislative, and policy work for clients in both the private and public sectors.

Mr. Goldstein has developed a national reputation as one of the leading and most innovative Brownfields practitioners in Florida, working on important and precedent establishing projects as well as heading up or participating in numerous local, regional, state, and federal environmental restoration initiatives. On a statewide level, he was the founding Chairman of the Florida Brownfields Association and served as its Chairman and/or President for the first five years of the organization's existence. His tenure as Chairman and President was distinguished by his commitment to elevating environmental justice and public health as critical areas of emphasis for business, community, regulatory agency, and local government stakeholders. In 1996, the Miami-Dade County Commission appointed him Chairman of the Miami-Dade County Brownfields Task Force, a post that he held until the committee's business was completed in 2004. In January 2006, he was appointed to serve on the Advisory Board of the Bureau of National Affairs' highly respected Environmental Due Diligence Guide, which serves as a national reporting, editorial, and opinion forum for environmental transactions and related Brownfields and policy matters. In 2008, he founded and funded the Goldstein Brownfields Foundation, which is dedicated to empowering economically and health disadvantaged individuals and communities with scholarships, programming, and resources to restore polluted land, revitalize neighborhoods, and protect public health. The Goldstein Brownfields Foundation also focuses on increasing the ethnic and gender diversity of lawyers working in the environmental arena through academic scholarships, educational and career programming, and professional mentoring. In 2009, he was appointed to the Executive Committee of the National Brownfields Coalition, an affiliation of private and public sector stakeholders working in the U.S. Congress to advocate for improvements in environmental redevelopment policy and legislation.

On May 16, 2013, Mr. Goldstein was awarded the prestigious Brownfields Leadership Award at the U.S. EPA National Brownfields Conference by the National Association of Local Government Environmental Professionals for his "achievement in and commitment to public private partnerships." On October 28, 2013, he was awarded the prestigious Chrysalis Award by the membership of the Florida Brownfields Association at its Annual Brownfields Conference for his "outstanding efforts towards the cleanup and redevelopment of Brownfield properties in the state of Florida," including "educating the public and elected officials about the Brownfield Program, providing volunteer assistance to Florida communities, advancing legislation that promotes the Brownfield Program through increased incentives and opportunities, extreme volunteer participation in the activities of the Florida Brownfields Association, promoting the state and federal Brownfield Programs, and Brownfield site cleanup." He is called on frequently to provide training and support for local government based environmental redevelopment efforts and has formally developed and presented brownfield related workshops to elected officials, planning staff, businesses and community stakeholders in the

following Florida municipalities: Hollywood, Fort Lauderdale, Miami, North Miami, North Miami Beach, Pompano Beach, Sarasota, and St. Petersburg.

Notable Experience Related to Transactions, Cleanups & Environmental Redevelopment

Extensive experience in the procurement, contracting, and management of environmental engineering and consulting professionals to develop and implement environmental due diligence, remediation, compliance, and design and construction strategies, including negotiation of consultant contracts, review and revision of draft plans and reports prior to submittal to environmental regulatory agencies, and interfacing with consultants to negotiate clean-up agreements and schedules with environmental regulatory agencies.

Extensive experience in working with environmental consultants to design, negotiate, obtain state and local regulatory approval of institutional and engineering controls to allow residual soil and groundwater contamination to be safely managed in place.

Extensive experience in developing, implementing, and managing long-term environmental restoration, economic redevelopment, and project construction strategies on behalf of developers, end-users, and local governments to address clean-up, regulatory, liability, design and engineering, financing, environmental insurance, community outreach, and stakeholder involvement concerns on or in connection with Brownfield and Superfund sites in Florida.

Experience in procuring environmental insurance coverage and negotiating endorsements, exclusions, and related policy language for buyers, sellers, lenders, and end-users.

Strong working relationships with Brownfields program managers and administrators at U.S. Environmental Protection Agency, Florida Department of Environmental Protection, numerous local pollution control agencies across the State of Florida (including Broward County Environmental Protection and Growth Management Department, Hillsborough County Environmental Protection Commission, and Miami-Dade County Department of Regulatory and Economic Resources), U.S. Army Corps of Engineers, U.S. Department of Housing and Urban Development, U.S. Department of Commerce, and several of Florida's Regional Planning Councils.

Strong relationships and extensive experience working with federal, state, regional, and local regulatory and economic development officials, including U.S. Department of Housing and Urban Development, U.S. Economic Development Administration, Enterprise Florida, the Florida Department of Economic Opportunity, the South Florida Regional Planning Council, Miami-Dade County's Beacon Council, and the Miami-Dade County Office of Community and Economic Development.

NOTABLE BROWNFIELDS RELATED WORK

Brownfield Projects. Specific Brownfield related matters engaged to work on in Florida through March 2015 include projects located in the following jurisdictions: Apopka, Auburndale, Boynton Beach, Brevard County, Broward County, Citrus County, Cocoa Beach, Coral Springs, Dania Beach, Davie, Deerfield Beach, DeFuniak Springs, Delray Beach, Duval County, El Portal, Escambia County, Fort Lauderdale, Fort Walton Beach, Hallandale Beach, Hillsborough County, Jacksonville, LaBelle, Largo, Lauderhill, Miami, Miami Gardens, Miami-Dade County, Miramar, North Miami, North Miami Beach, Opa-locka, Orlando, Palm Beach County, Pasco County, Pensacola, Polk County, Pompano Beach, Punta Gorda, Sarasota, Sarasota County, Seminole, South Miami, St. Petersburg, Sunrise, Sweetwater, Tallahassee, Tampa, Tarpon Springs, Venice, and West Palm Beach.

Brownfield Incentives. Over the past 18 years worked with clients, environmental consultants, local government officials, Certified Public Accountants, and/or state regulators to prepare and/or submit over 38 Voluntary Cleanup Tax Credit Application packages, 24 Brownfield Redevelopment Bonus Applications, 18 Construction Materials Sales Tax Refund Applications, and 5 Brownfield Targeted Site Assessment Applications. Have also supported numerous local government Brownfield grant applications to the U.S. EPA, including a successful \$500,000 U.S. EPA Brownfield Jobs Training Grant for the City of Miami and a successful \$450,000 U.S. EPA Brownfield Remediation Grant for Palm Beach County. Clients receiving brownfield incentives include Carlisle Development Group, Cornerstone Group, Darden Restaurants, Gerdau Ameristeel, IKEA, McArthur Dairy, Pinnacle Housing Group, Sam's Club, Wal-Mart, Waste Management, and ZOM.

Negotiation of Brownfield Site Rehabilitation Agreements. Successfully negotiated 30 Brownfield Site Rehabilitation Agreements under the Florida Brownfields Program, including 7 with the Florida Department of Environmental Protection, 16 with the Miami-Dade County Department of Regulatory and Economic Resources, 5 with

the Broward County Environmental Protection and Growth Management Department, and 2 with the Hillsborough County Environmental Protection Commission.

Landfill Related Redevelopment and Reuse Experience. Worked or working on approximately 29 landfill redevelopment and reuse projects involving commercial, conservation and recreation, industrial, renewable energy, residential, and retail reuse scenarios, including landfill sites located in Apopka, Aventura, Ft. Walton Beach, Delray Beach, Doral, Gainesville, Hallandale Beach, Hialeah, Hollywood, Jacksonville, Miami, Miami Gardens, North Miami, North Miami Beach, Opa-locka, Orlando, Palmetto, Pompano Beach, Sarasota, Sweetwater, Tampa, and West Palm Beach.

Brownfields Counsel to City of North Miami. Engaged by the City of North Miami to assist in the Brownfields designation of former wastewater treatment plant for redevelopment and reuse for affordable housing, health care, and expanded conservation and recreation purposes. Also engaged to brief the City Council on all brownfields related economic incentive communities and to hold outreach workshops for business and neighborhood stakeholders.

Brownfields and Environmental Counsel to City of North Miami Beach. Engaged by the City of North Miami Beach to assist in the environmental investigation, cleanup and master planning of former Miami-Dade County owned landfill for expanded conservation and recreation purposes. Also engaged to advise the City as to Brownfields related funding opportunities in 2009 federal stimulus legislation.

Brownfields Counsel to City of Miami Gardens. Engaged by the City of Miami Gardens to assist in the identification and designation of multiple corridors, neighborhoods, and sub-markets as Brownfield Areas. Spearheaded successful brownfields designation of City-owned property for marketing to private sector. Also engaged to brief the City Council on all brownfields related economic incentive communities and to hold outreach workshops for business and neighborhood stakeholders.

Brownfields Counsel to City of Miami. Engaged by the City of Miami to draft and help implement the City's Strategic Brownfields Plan, including procedures for initiating Brownfields designation, recommendations for developing additional incentives (such as zoning incentives) to stimulate Brownfields redevelopment, strategies for promoting Brownfields redevelopment opportunities to developers, end-users, and neighborhood groups, and protocols for community outreach and environmental justice.

Environmental Counsel to City of Miami for Bicentennial Park to Museum Park Project, Orange Bowl Stadium to Florida Marlins Stadium Project, Former Virginia Key Landfill Conservation Reuse Project. Engaged by the City of Miami in 2009 to assist in the environmental investigation and cleanup of contamination at Bicentennial Park to facilitate its redevelopment as a bayside campus for the Miami Art Museum and the Miami Museum of Science; in 2008 to assist the City in the environmental investigation and cleanup of contamination at the former Orange Bowl Stadium site to facilitate its redevelopment as a new stadium for Major League Baseball's Florida Marlins team; and in 2003 and 2004 on a pro bono basis in connection with beneficial reuse of 100 acre former landfill located on Virginia Key in the City of Miami.

LEADERSHIP POSITIONS

Founding Chairman and President, Florida Brownfields Association

In May 2002, Mr. Goldstein was one of the founding Board members of the Florida Brownfields Association and unanimously elected by his peers and colleagues in the private and public sector to serve as its first Chairman and President. The Florida Brownfields Association is a statewide coalition of public sector and private sector stakeholders working on an array of legislative, policy, legal, public health, and environmental justice initiatives to improve the pace and scope Brownfields restoration and economic revitalization in Florida. Mr. Goldstein was unanimously reelected to a second two-year term in July of 2004 that concluded in 2006.

Board of Directors and Co-Chair of Legislative & Policy Committee, Florida Brownfields Association

In October 2013, Mr. Goldstein was re-elected to the Board of Directors of the Florida Brownfields Association and served in that position through October 2014. In 2013, Mr. Goldstein served as Co-Chair of the Legislative & Policy Committee of the Florida Brownfields Association. He remains actively involved in preparing amendments to Florida's Brownfields Redevelopment Act to expand the scope and impact of economic and liability protection incentives available to developers, end-users, lenders, and local governments.

Chairman, Miami-Dade County Brownfields Oversight Committee and Miami-Dade County Brownfields Task Force

In 1995, Mr. Goldstein petitioned the Miami-Dade County Commission to empanel and empower an advisory board that would develop recommendations to encourage investment by the private sector in brownfield properties through the establishment of grants, low interest revolving loans, and the amendment of the County's environmental protection code to provide liability clarification and protection. As a result of his efforts, the Board of County Commissioners created the Miami-Dade County Brownfields Task Force in 1996, which Mr. Goldstein was appointed to as Chairman. In 1999, the Task Force was reauthorized as an Oversight Committee and charged with implementing the recommendations developed by the Task Force. He was again appointed to serve as Chairman and continued in that role working closely with senior DERM management as well as Miami-Dade County elected officials and staff on a host of related policy, programmatic, funding, and educational initiatives until 2005, when the Committee was sunsetted.

President and Chairman, Goldstein Brownfield Foundation

In 2008, Mr. Goldstein established the Goldstein Brownfield Foundation, a 501(3)(c) and Florida not-for-profit, to raise money for and provide scholarships for minority college and law students who want to pursue careers in environmental law, environmental redevelopment law, and environmental public health; to raise money for, fund, and stage and/or support Brownfields-related programming for local government staff and officials, community based stakeholders, and students, teachers, and professors; and to raise money for, fund, initiate, and coordinate the restoration, redevelopment and reuse of Brownfield sites in environmental justice communities in Florida that lack a private sector advocate. The Foundation issued its first Brownfields grant to the Environmental Law Institute in support of its January 25, 2008 Workshop entitled, "Community Justice, Health, and Wealth: Restoring Neighborhoods through Brownfields Redevelopment," in Jacksonville, Florida. In the Fall of 2008, the Foundation issued its first scholarship, a \$10,000 award to a law student from Haiti, who wrote in his grant application that it is his "hope that as a Haitian environmental attorney in the United States, I will not only be able to serve my clients effectively, but also help sustainably develop distressed Haitian communities in the United States and in Haiti." In April 2009, the Foundation awarded a \$5,000 grant to support and recognize the leadership of the Northeast Midwest Institute in promoting federal legislative change and educational outreach to further environmental restoration, economic development, and public health improvement and protection at the community level.

President and Chairman, Goldstein Brownfields Group

In 2008, Mr. Goldstein founded the Goldstein Brownfields Group, a Miami-based development and consulting firm that focuses exclusively on the acquisition, cleanup, restoration, and sustainable reuse of environmentally impaired properties. The Goldstein Brownfields Group works with public and private companies, lenders, individual buyers and sellers, local governments, regional partnerships, regulatory agencies, consulting and engineering professionals, public health advocates, environmental justice stakeholders, and neighborhood activists to arrive at consensus-driven remediation solutions and redevelopment strategies designed to eliminate threats to human health and the environment, reduce pollution, strengthen neighborhoods, reuse existing infrastructure, promote green construction, expand renewable energy production and infrastructure, create jobs, generate meaningful financial equity and economic opportunity for neighborhood residents, and encourage further investment of private capital in distressed communities.

SELECTED LECTURES AND PRESENTATIONS

- "Too Toxic? The Transactional and Legal Challenges of Non-Statutory Environmental Liability at Brownfield Sites," U.S. EPA National Brownfields Conference, November 2015
- "Brownfields Funding and Regulatory Solutions for Public Sector Planners and Private Sector Principals," Annual Florida Environmental Network Summer School Conference & Exhibition, July 2015
- "Redevelopment and Reuse Design, Funding, and Compliance Strategies for Local Government Owned Landfill Sites in Miami-Dade County Pursuant to the Miami-Dade County Comprehensive Landfill Closure Plan," The Goldstein Environmental Law Firm Special Topics in Brownfields Reuse Seminar Series, May 2015
- "Legal and Regulatory Strategies to Overcoming Environmental Liability Risk at Urban Infill Redevelopment Sites," Plenary Address, U.S. Environmental Protection Agency Region IV Brownfields Grantee Workshop, October 2014
- "Structuring Environmental Justice and Sustainability: A Model Partnership for Universities, the Community, and the Private Sector," Environmental Justice and Sustainability Forum, Florida A&M University, October 2014

- "Utilizing Brownfields Strategically to Attract Private Capital & Accelerate Economic Development, Job Creation, and Environmental Restoration," City of Miami Gardens Community and Business Stakeholder Workshop, October 2013
- "The Making of a New Brownfield Redevelopment Market: Regulators, Local Governments & the Public Sector Discovering and Perfecting Landfill Reuse to Unlock Intrinsic Value, Create New Neighborhoods and Usable Places, and Amplify Sustainability," U.S. EPA National Brownfields Conference, May 2013
- "A Critical Guide to Maintaining Environmental Liability Protection during Development and Construction Activities at Brownfield Sites," U.S. EPA National Brownfields Conference, May 2013
- "Brownfields Policy and Practice for Planners," Miami-Dade County Planner's Association, April 2013
- "Connecting Sites to Neighborhoods: Accelerating Brownfields Reuse Through Planning & Design," 25th Annual Florida Environmental Network Summer School Conference & Exhibition, July 2011
- "Structuring Exposure to Environmental Risk to Incentivize Private Capital Investment and Catalyze Redevelopment at 'Place-Making' Brownfield Sites," Joint Florida Brownfields Association and U.S. Environmental Protection Agency Improving Access to Healthcare through Brownfields Redevelopment Workshop, June 2011
- "Green Collar Employment Opportunities in Fast Expanding New Environmental Economy," Goldstein Brownfields Foundation Lecture Series, City of Miami Brownfield Job Training Grant Program, May 2011
- "A Deeper Shade of Green for Local Governments: Adding Blue to Brownfield Sites to Expand Renewable Energy Infrastructure," South Florida Regional Planning Council, September 2010
- "Environmental Justice and Brownfields Redevelopment," 1st Annual Environmental Law and Justice Conference, Florida A&M University Law School, November 2010
- "Brownfield of Dreams: Lawyer/Developer Investigates Possible Uses of Former Landfill," South Florida Business Journal, September 7, 2009
- "Environmental Justice and Brownfields Redevelopment," Interview on Radio Green Earth, July 2009
- "Fundamentals of Brownfields Redevelopment for Local Governments, Community Groups & Developers," East Coast Florida Regional Planning Council Inaugural Brownfields Workshop, August 2005
- "Fundamentals in Brownfields Redevelopment, Reuse, and Community Building: A Primer for Local Governments," Teleconference Workshop for Georgia Black Mayors co-hosted by U.S. Minority Business Development Association and U.S. Environmental Protection Agency, April 2005
- "Understanding the Dynamics and Psychology of Public/Private Redevelopment Partnerships: A Brownfields Primer for Municipal Redevelopment Officials through Case Study and Role Play," U.S. Environmental Protection Agency Annual Brownfields Conference, September 2004
- "Brownfields Redevelopment Strategies for Local Governments and CRAs," Annual Florida Redevelopment Association Conference, September 2004
- "Greenfields Redevelopment: Remedial Reuse of Brownfields as Public Parks, Ballfields, Conservation Areas and Open Space," Fourth Annual Florida Brownfields Conference, November 2001
- "A Guide to Brownfields Redevelopment in Miami-Dade County," Miami-Dade County Department of Environmental Management Pollution Prevention Seminar, May 2000
- "From Environmental Liability to Brownfields Asset: Redevelopment of Municipal Solid Waste Landfills," National Association of Parks and Recreation, February 1999

SELECTED MEDIA ARTICLES

- "Former West Palm Beach Landfill Would Be Cleaned, Converted to Shops," Palm Beach Post, March 9, 2015
- "North Miami Seeks State Aid to Clean Up Park Site," Miami Herald, September 29, 2014
- "North Miami Considers Whether to Invest in Brownfields," Miami Herald, January 23, 2014
- "Designation Moves Seminole Mall Plans Forward," Tampa Bay Times, November 15, 2013
- "State Incentives Fuel Growing Brownfield Reclamation Trend," Miami Today, October 24, 2013
- "BJs Wholesale Club Seeks Brownfield Incentives for New Miami Store," South Florida Business Journal, February 27, 2013
- "IKEA Sweetwater to Start Build in 2 Months, Open in Mid-2014," South Florida Business Journal, February 20, 2013
- "Health Centers Find Opportunities in Brownfields," New York Times, December 11, 2012
- "St. Petersburg Approves \$240,000 Brownfields Tax Break for Sam's Club," Tampa Bay Times, June 8, 2012
- "Formerly Contaminated Brownfield Sites Now Development Targets," Miami Today, April 28, 2011
- "Wal-Mart Seeks Incentives for Miami Store," South Florida Business Journal, April 15, 2011
- "Attorney Begins Goldstein Brownfields Foundation," Miami Today, April 3, 2008
- "Batting Cleanup," Commercial Property News, November 16, 2007

- "A Decade of Brownfields Redevelopment in Florida: Reflecting on the Past, Celebrating the Present, and Planning for the Future," Key Note Presentation, 9th Annual Florida Brownfields Conference, October 2006
- "Fundamentals of Brownfields Redevelopment for Local Governments, Community Groups & Developers," East Coast Florida Regional Planning Council Inaugural Brownfields Workshop, August 2005
- "Cleanup Hitter: Group Seeks Legislation to Make Polluted Properties in Florida Easier, More Lucrative to Develop," Daily Business Review, November 13, 2003
- "When Little Else Available, Developers Turn to Contaminated Lands," Miami Today, July 3, 2003
- "Environmental Leaders Clean up Contaminated Sites . . . Develop Parks and Clean Up Beaches and Waterways," Miami Today, Special Best of Miami Supplement, June 5, 2003
- "Go Brown," Staff Editorial, The South Florida Business Journal, March 28, 2003
- "Cheerleading for Brownfields," Daily Business Review, November 18, 2002
- "Miami Seeks Federal Money to Turn Landfill into Park," Daily Business Review, May 21, 2002
- "Is Brownfield Designation in Munisport's Future" Daily Business Review, April 22, 2001
- "The Marlins' Play on Brownfields," Daily Business Review, March 29, 2001
- "Meeting Aims to Marry Owners of Tainted Lands with Urban Developers," Miami Today, August 17, 2000
- "Brownfields Report to Call for Development Partners," Miami Today, March 4, 1999
- "Brownfields Task Force Poised to Present Incentives," Miami Today, October 29, 1998
- "Brownfields Task Force Tossing a Wider Net," Daily Business Review, September 24, 1997
- "State Incentives May Fuel Dade's Brownfields Efforts," Miami Today, May 15, 1997
- "Dade Task Force Would Make 'Brownfields' Green," Miami Today, May 30, 1996

5

Project Manager Experience



Vincent Yarina, PG, CEM **Project Manager**

Vincent Yarina will serve as overall project manager for Langan on this project and will be charged with allocating the proper resources to serve the city and successfully complete our task orders. Mr. Yarina will also provide technical expertise on matters related to environmental assessment and remediation, permitting, asbestos, lead and indoor air quality and sustainability.

Vincent Yarina has over 23 years of environmental engineering and geosciences experience. Mr. Yarina manages Langan's downtown Fort Lauderdale office and also leads Langan's environmental consulting practice in Florida. Mr. Yarina has served as Project Manager for various professional services contracts with municipalities including: City of Hollywood, City of Homestead, Town of Lauderhill and South Florida Water Management District. In addition to municipalities, Mr. Yarina provides environmental engineering services to a diverse national client base that includes Fortune 500 companies, land developers, financial institutions, attorneys, and institutional investors.

Mr. Yarina has worked with FDEP, through their Pre-approval Petroleum Cleanup and Dry-cleaning Solvent Cleanup Programs on projects ranging from tank closures to Site Assessments to Remedial Action. Additionally, Mr. Yarina served as Project Manager for Langan's contract with South Florida Water Management District (SFWMD) in its land acquisition program for the Comprehensive Everglades Restoration Plan (CERP). Mr. Yarina's environmental consulting experience includes performing numerous Phase I and Phase II Environmental Site Assessments and groundwater impact studies, development of remedial investigation plans, implementation of remedial plans, well and boring installation, groundwater and soil sampling, and performing and analyzing aquifer pump test data using MODFLOW and other computer modeling software. In addition, Mr. Yarina has managed dozens of asbestos, lead and mold/indoor air quality projects throughout Broward County and South Florida.

Mr. Yarina is an expert in environmental due diligence and has presented on the subject of Phase I ESAs, All Appropriate Inquiry, and environmental due diligence to the Florida Chamber of Commerce's Semi-Annual Environmental Permitting Conferences and Florida Brownfield Association's Annual Conference, the Environmental Bankers Association and national real estate conferences.

Mr. Yarina has a vested interest in the City's affairs and serves on the Board of Governors for the Fort Lauderdale Chamber of Commerce's Downtown Council. Mr. Yarina was also a graduate of Leadership Fort Lauderdale Class VIII and served as Chair and co-chair of Leadership's Community Development/Environment Day from 2002 to 2006. He is acutely aware of the impacts that sea level rise has on the city and is committed to assisting the city in solving its flooding problems by committing Langan's resiliency and engineering resources for this effort.

Chip Day

Assistant Project Manager



Mr. Yarina will be supported by Chip Day, who will serve as assistant project manager. Mr. Day has successfully served the city on previous matters related to natural resources. Mr. Day is a Certified Project Manager and Dive Safety Officer (DSO) with 15 years of experience working on various project types and ecosystems throughout South Florida. He is very familiar with the unique regulatory hurdles associated with Broward County, and how to get over them! The most notable hurdles are associated with potential impacts to the regulated natural resources within the County, such as seagrass, wetlands, mangroves, coral and other protected unique habitats.

Within Broward County, Mr. Day has worked on a wide variety of complex environmental and regional planning projects; including National Environmental Policy Act (NEPA) documentation for the Florida Department of Transportation (FDOT) and SFWMD, public and private land development, energy and transportation studies, bridge and roadway expansion permitting, wildlife and protected habitat assessments, marina expansion, work within the Atlantic Intracoastal Waterway, and wetland and habitat mitigation design and construction oversight. He has obtained environmental resource permits through federal, state and local regulatory agencies for many of complex projects and is very familiar with the Joint Environmental Resource Permit Application process through the U.S. Army Corps of Engineers and SFWMD and FDEP. He also has years of experience navigating the Broward County Environmental Protection and Growth Management Department (BCEPGMD). Mr. Day successfully negotiated an agreement with the BCEPGMD on a very serious regulatory violation to a satisfactory outcome on behalf of the City of Fort Lauderdale for the ongoing Marina Expansion Project.

Mr. Day is invested in the environmental stewardship of South Florida, having received two master's degrees from Florida Atlantic University, working on multiple research grants and non-profit projects. He also served on the boards of the Treasure Coast Chapter of Environmental Professionals (TCCAEP) and the South Florida Chapter of Environmental Professionals (SFAEP). He is a Certified Gopher Tortoise Permit holder, experienced manatee observer and a scientific diver familiar with the marine environment within the City of Fort Lauderdale's limits.

6

Approach to Scope of Work

Project Understanding

The City of Fort Lauderdale is Broward County's largest municipality. A city as diverse as and the size of Fort Lauderdale has a large infrastructure and a multitude of public works and services that require environmental engineering services. As such, we believe the city desires the best value for the highest quality of environmental engineering services. The typical city-requested services are listed in Section III of the RFQ and generally include:

- Regulatory permitting
- Attending public meetings
- Environmental compliance
- Grant writing and applications
- Asbestos, lead-paint, indoor air quality and mold services
- Phase I and Phase II Environmental Site Assessments
- Soil, sediment, groundwater assessments and remediation plans
- Remediation system design
- Storage tank services
- Brownfield services
- Threatened and endangered species
- Wetland delineations
- Sustainability and LEED services
- Water quality evaluations
- NEPA related services (i.e., social justice, historical and archeological re-views)

We understand the city could request any of the above services. Langan Engineering and Environmental Services, Inc. provides these engineering and environmental consulting services for private developers, public agencies, property owners, and institutional clients around the world. Founded in 1970, Langan employs more than 900 professionals in its Elmwood Park, New Jersey headquarters and among 17 regional offices, including our local office in Fort Lauderdale. Langan is listed among the Top Design Firms and Top Green Design Firms in Engineering News Record. We specialize in:

- Site assessment, design, and remediation
- Brownfield redevelopment
- Transactional due diligence
- Natural resources and ecological restoration
- Regulatory compliance and permitting
- Air quality and industrial hygiene

Langan's heritage in geotechnical engineering has instilled an understanding throughout the firm for strong foundations – for structures and business relationships. At the base of every relationship is trust. Through more than four decades of growth, we have developed an entrepreneurial culture that embodies Technical Excellence, Practical Experience, and Client Responsiveness. We combine these attributes in everything we do. That's how we exceed expectations. That's how we meet schedules and reduce costs. That's why clients stay with Langan.

When it comes to environmental solutions, clients want to do the right thing, but they need to know the right way. Langan will be your technical and regulatory advocate. We will work with you to develop sound, cost-effective environmental solutions in the context of complicated regulatory policies.

Langan is the prime consultant for this contract. Our contract manager is **Vincent D. Yarina, PG, CEM**. When the city requests a proposal for a particular service, Mr. Yarina will discuss the assignment with the Langan task manager:

- **Natural Resources, wetlands, NEPA** – Chip Day
- **Phase I/II Environmental Site Assessments/Site Assessments/Soil and Groundwater Studies** – Daniel Spector, PG, LEP
- **Environmental Remediation** – Raymond Lees, PE, Fangmei Zhang, PE
- **Grant Services** – Greg Firely
- **Asbestos Surveys and Remediation** – John Magnavita, PE, Licensed Asbestos Consultant
- **Air Quality Testing, Lead Paint, Mold, Indoor Air Quality** – Brian Feury, CIH and Vijay Patel
- **Sustainability and LEED services** – Chris Glenn, PE, Chris Hager, PE, Michael Szura, RLA, LEED AP

The task manager and the contract manager will prepare the proposal, including the budget and schedule, and discuss the proposal with the city. The proposal will include assumptions and limitations so that the city understands the scope of work, which will minimize the need for change orders. Langan's task managers will provide the subcontractors with specific scopes of work and solicit cost proposals and schedule.

When we receive the city's purchase order, Mr. Yarina will meet with the task manager to discuss the scope of work, the budget, and the deadline. The task manager will meet with the staff and coordinate work with the subcontractors.

Langan manages budgets, costs, and schedules through our Deltek Vision web-based program that allows the task manager to track project charges on a real-time basis. The task manager will meet regularly with the project team. Mr. Yarina will communicate regularly with the city's project manager to discuss status, findings, and unanticipated conditions. The task manager will transmit draft reports and progress memos to the city's project manager for discussion. We want to ensure that the city understands the findings and recommendations, and the implications of those recommendations, on the city's operations and budgets before reports are finalized.

Langan will transmit an electronic copy and hard copies of the final report after incorporating the city's comments. Mr. Yarina will issue the invoices in accordance with the terms of our Professional Services Agreement.

Langan has assembled a team of subcontractors to assist Langan in completing the requested scope of services. The subcontractors include:

- **The Chappell Group**, *Pompano Beach, Florida* - professional permitting services and technical studies related to wetlands, threatened & endangered species, water quality evaluations and technical support related to NEPA services
- **Envirodrill**, *Davie, Florida* - monitoring well installation and abandonment and soil borings
- **Pace Analytical Services**, *Pompano Beach, Florida* - laboratory analytical testing services
- **Engineered Environmental Solutions**, *Lake Worth, Florida* - licensed pollutant storage specialty tank contractor services and remediation cleanup services
- **ARS Environmental**, *Plantation, Florida* – licensed radon testing and evaluations and mitigation
- **The Goldstein Environmental Law Firm**, *Miami, Florida* - environmental justice evaluations, reviewing ordinances, Brownfield grant assistance, public relations support, commission meetings

Langan has worked with these contractors and this team has served many clients, including municipalities, throughout South Florida. The Langan team has experience, technical expertise, and excellent working relationships. Our team will be seamless from the city's point of view. Mr. Yarina will be the city's point of contact. The city can be confident that our response will be comprehensive and thorough – one point of contact to our full range of environmental services.

The following sections discuss in more detail the Langan team's methodologies for the environmental services required under this contract.

PROJECT MANAGEMENT AND QUALITY ASSURANCE/QUALITY CONTROL

Langan is committed to providing quality engineering and environmental services. We recognize that our success and our clients' success depend on the efforts of our employees and the corporate commitment to quality, technical excellence, practical experience and responsiveness. Our primary objective is to ensure that the services and products provided by Langan meet the requirements of applicable regulations, codes, standards, contracts, and technical specifications, as well as client expectations.

Planning, achieving, and verifying quality are the responsibilities of managers. Producing quality work is the responsibility of the company and each Langan employee. Principals, associates, and project managers are accountable for ensuring that the work performed in their discipline, or on their project, meets or exceeds the quality standard set by the company. Work products must satisfy the quality needs of our clients. For employees to deliver a high-quality product, managers must ensure that the services and products provided to their clients, both internal and external, are fully and clearly understood by those providing the services. Managers are responsible for ensuring that adequate procedures,

equipment, technologies, resources, documentation, services, and supplies are provided for the production of products that meet the standards established for acceptance.

The steps required to ensure and to document that appropriate quality processes have been implemented will vary with the deliverable and the end use of the deliverable. Consequently, staff and managers bear the responsibility for reviewing their tasks in light of company policies and procedures and for ensuring that policies and procedures appropriate to the task are applied. The intent is not to stifle productivity with unnecessary documentation and procedures, but to ensure that prudent and appropriate steps are taken and documented so that we can stipulate that our products and services are of the quality reasonably achievable relative to their intended use.

Quality Assurance/Quality Control (QA/QC) procedures are not the responsibility of one individual or group, but of all employees and subcontractors in all project-related functions. For each project, Langan will utilize a project team with varying QA/QC responsibilities to ensure that work is effectively managed and produces consistently high-quality results. It is the responsibility of project team management, which includes designated Quality Assurance staff, to ensure that QA/QC activities take place at all levels in the project organization, and that personnel associated with the project have a high level of quality control awareness and commitment.

Langan recognizes three control components for achieving quality standards, each of which will be delineated within project-specific comprehensive plans and will be implemented to ensure that quality standards are met. The **Preparation** component includes the steps necessary to ensure that Langan personnel understand their roles and responsibilities before beginning work. The **Preliminary** component includes a check of all Preparation work to ensure compliance with contract requirements. The **Final** component comprises the performance and documentation of activities to ensure continued compliance.

The Langan system of QA/QC is based on a defined system by which personnel, materials, and services are inspected for compliance with specifications. This system is established through a series of periodic checkpoints or control tests. When a deficiency is identified, work proceeds along clearly defined paths to remedy the problem. During each phase of quality control, each member of the Langan management team has responsibilities that contribute to ensuring that the quality standards of a project are being met.

The assignment of specific duties and administrative functions for a project task will vary according to the work to be performed, contract requirements, and other factors, and will be determined as early as possible. The lines of authority governing administrative and project personnel will be established before beginning work on the project.

Langan's procedures provide measures for ensuring that personnel performing quality-affecting activities receive training commensurate with the skill levels needed and that only qualified personnel are assigned to quality-related tasks. Langan management is responsible for

assessing areas of responsibility to develop appropriate training, which is formally documented.

Measures will be implemented to ensure that regulatory requirements, design bases, and technical and quality requirements are included or referenced in procurement documents for materials, equipment, or services. Procurement documents will be reviewed before release by QA/QC personnel and other appropriate technical disciplines to ensure that technical and quality control requirements are included.

Where design activities apply to quality-related components or services, measures are established to translate applicable regulatory requirements into accurate design, procurement, and procedural documents. Design documents will include appropriate standards. Measures will be established and implemented to ensure that applicable design basis and regulatory requirements are correctly translated into specifications, drawings, work-plan procedures, or instructions.

Langan personnel who use measuring and testing equipment are responsible to verify that the instruments have not exceeded calibration due dates and to remove the instrument from service if the calibration date has expired, or the instrument is suspected to need repair or be out of calibration due to damage. Langan personnel will select instruments that fit the required range, tolerance, type, and accuracy as specified in pertinent documents (such as operating procedures) to verify conformance to the specified criteria.

INFORMATION AND TECHNOLOGY MANAGEMENT

Langan uses a Management Information System (MIS) for planning, scheduling, tracking, and reporting, including MS Project, Gantt Charts, Excel spreadsheets, and web-based portals with calendar functions. We also use Deltek Vision software for budgeting, invoicing, and project cost tracking for multiple-phase projects or for projects performed for clients who require the use of such a system. These programs are updated and evaluated periodically in order to identify areas that may be improved. We also review commercially available software and developing programs within Langan and implement upgrades into the existing programs. Personnel required to use the MIS and Vision software will be trained in the formats and applications as modifications are made.

Langan's Information and Technology Department is responsible for hardware, software, and communication technology used on our computing platforms, including Wide Area Networks, personal computers, Local Area Networks, and servers.

Langan's computer software includes, but is not limited to, design, data handling, data analysis, modeling of environmental processes and conditions, operations, or process control of environmental technology systems (including automated data acquisition and laboratory instrumentation), and databases containing environmental data.

Langan develops SOPs to ensure uniform quality of products and processes. SOPs will describe their purposes and specific steps and techniques, and will be written clearly and concisely in a manner readily understood by a person knowledgeable of the technical or administrative

concept of the procedure or process. Any staff member can identify the need for a SOP and, if knowledgeable of the particulars of a procedure or process, may also write such SOP. For environmental projects, Langan adheres to the guidelines provided in the Florida Department of Environmental Protection Standard Operating Procedures (rev. 2014).

HEALTH AND SAFETY

Langan is proud that our OSHA Recordable Incident Rate has been less than 1 for at least the last three years. The primary responsibility of project management is the health and safety of the Langan team. A healthy and safe work environment is not only the right of each team member, it is also a critical component of our QA/QC program – only healthy and safe team members can produce quality work. Langan's Corporate Health and Safety Manager will supervise this aspect of our work. He will help managers develop site-specific health and safety plans as integral components of each project scope of work.

CURRENT WORKLOAD

Langan's Fort Lauderdale office will be responsible for providing services under this contract. Between our Fort Lauderdale and Miami Lakes offices, the contract manager and the task managers have a pool of more than 40 professionals (geologists, scientists, and engineers) who can be assembled into teams for specific task assignments. Mr. Yarina also has access to professionals in all Langan's other offices, who can supplement the Florida workforce.

Langan's environmental practice involves several dozens of projects a year, from small Phase I Environmental Site Assessments to long-term assessment, remediation, and monitoring projects. We know how to balance our staff and our workload and we don't "overbook." We are honest and realistic with our clients when discussing timelines, schedules, and deadlines, but we will always find a way to meet our clients' needs.

RESOURCES

Langan uses the latest GIS, CAD and Data Management solutions. Our technical staff is experienced in ArcGIS and manages vast amounts of data including large utility databases for infrastructure cataloging and project planning at large oil refineries and major universities. Our staff uses ESRI's ArcGIS suite of applications, including ArcInfo, ArcEditor, and ArcMap. This expertise starts outside of the office, where Langan's field staff collects and reduces data in real-time using handheld ArcPAD data collectors, GPS units, and TabletPCs. Langan uses Earthsoft's EQulS Chemistry and Geology products in conjunction with ArcGIS. EQulS, Rockworks, GMS, and EVS are fully integrated with ArcGIS.

We provide our clients with easy access to their project data by developing Extranet and Sharepoint data portals for seamless data exchanges. Langan has developed custom web-based applications using ESRI's ArcIMS and ArcGIS Server technologies to publish data, maps, and metadata that clients can access effortlessly. Langan's GIS/CAD and Data Management group is comprised of professional engineers and software programmers who provide the best technical solutions for each project.

Modeling of groundwater and surface water is the science of using computers as tools to predict and illustrate the flow of water and/or contaminants over time. Langan recognizes that modeling is a valuable tool for understanding the hydrologic system, ground water resource management, and remediation design. Langan has the capabilities to provide cities and agencies with groundwater flow and transport models to assess the interaction of contaminant plumes and potential remediation approaches. Our modeling projects rely upon various groundwater modeling platforms and codes to provide a series of snapshots over time which are then interpreted and animated using CTech's EVS software. This offers a clearly presented model that synthesizes a number of highly technical and complex tasks from which recommendations can be made.

CLIMATE CHANGE

Climate change has forced cities in southeast Florida, including the City of Fort Lauderdale, to consider how to improve their infrastructure to meet the threat of sea-level rise combined with a naturally shallow groundwater. This combination gives rise to difficult problems, such as the management of stormwater runoff, the protection of property, and the delivery of water and sanitary sewer services:

- Because of the amount of impervious surface, coastal areas of South Florida are subject to flooding during heavy storms. Some particularly low-lying areas remain flooded for days after a storm. As sea level rises, the ability of municipalities to drain their stormwater runoff to the ocean will become more difficult. We see this during high tidal cycles in Las Olas Isles area.
- As sea level rises, municipalities could require new projects to have finished floor elevations that are higher than elevations required in the past. An additional challenge is to protect older buildings whose finished floor elevations make those structures increasingly susceptible to flooding.
- Water and sanitary sewer utility infrastructure was designed before sea-level rise became a concern. As sea level rises, the depth of the infrastructure, the grade of the piping and connections, and the ability of pump stations to manage the flow, will become increasingly problematical.

Langan's hydrogeologists are working on projects in the City of Hallandale Beach in which the city is redesigning its stormwater management system to address the growing problem of flooding. Langan's civil engineers are working with developers and property owners on Miami Beach to evaluate the impact of higher finished floor elevations on existing buildings. Langan's landscape designers are working with developers to incorporate roof-top landscaping and gardening into architectural design, to reduce the amount of runoff.

7

References

Performance Verification

For over three decades, our South Florida staff of more than 40 environmental, geotechnical, and civil engineering and consulting professionals has helped clients meet their technical and regulatory project needs. We wish to serve and provide the same high level of consulting that we share with the following clients to the City of Fort Lauderdale.

LANDFILL GROUNDWATER MONITORING

Monroe County Public Works
Bill Grant, Supervisor, Solid Waste Management
1100 Simonton Street, Room 2-231, Key West, Florida 33040
T: 305.664.2263 F: 305.292.4555 E: grant-bill@monroecounty-fl.gov
Date of Contract: April 2012
Description: Landfill Compliance Monitoring
Construction Cost: N/A

MORGAN'S POINT REMEDIATION PROJECT

Entech, LTD
Vanessa Turner, Project Manager
P.O. Box HM 2574, HM KX, Bermuda
T: +1 441.292.9192 F: +1 441.294.9087 E: vturner@entech.bm
Date of Contract: January 2014
Description: Environmental Assessment and Remediation
Construction Cost: N/A

PARK SQUARE AVENTURA

Integra Investments
Steven Sorensen, Chief Development Officer
150 SE 2nd Avenue, Suite 800, Miami, Florida 33131
T: 305.774.0110 F: 305.567.1169 E: ssorensen@integrafl.com
Date of Contract: October 2013
Description: Environmental Assessment and Remediation
Construction Cost: N/A

METHANE MITIGATION SERVICES

Ryder System, Inc.
George Luostari, Senior Manager
11690 NW 105 Street, Miami, Florida 33178
T: 305.500.3726 F: 305.500.4713 E: gluostari@ryder.com
Date of Contract: September 2011
Description: Environmental Remediation
Construction Cost: N/A

ROSCOE WARREN PARK

City of Homestead
Ana Azicri, Project Coordinator
551 SE 8th Street, Homestead, Florida 33030
T: 305.224.4777 F: 305.224.4789 E: aazicri@cityofhomestead.com
Date of Contract: May 2014
Description: Landfill Compliance Monitoring
Construction Cost: N/A

POMPANO BEACH MUNICIPAL GOLF COURSE

City Pompano Beach

Alessandra Delfico, City Engineer

1201 Northeast 5th Avenue, Pompano Beach, Florida 33060

T: 954.786.4060 F: 954.786.4028 E: alessandra.delfico@copbfl.com

Date of Contract: August 2010

Description: Final Closure Assistance, Source Removal Plan and Groundwater Delineation

Construction Cost: N/A

HIAD REDEVELOPMENT FEASIBILITY STUDY

City of Hollywood

Terrence Comiskey, AIA

2600 Hollywood Boulevard, Hollywood, FL 33021

T: 954.921.3900 F: 954.921.3416 E: tcomiskey@hollywoodfl.org

Date of Contract: May 2015

Description: Feasibility study for redevelopment of an ash landfill

Construction Cost: N/A

8

Minority (MBE) Participation

Langan has included The Chappell Group and Envirodrill, MBE-certified firms to provide various services as noted in the previous sections of this submittal.

9

LOCAL BUSINESS PREFERENCE CERTIFICATION STATEMENT

The Business identified below certifies that it qualifies for the local BUSINESS preference classification as indicated herein, and further certifies and agrees that it will re-affirm its local preference classification annually no later than thirty (30) calendar days prior to the anniversary of the date of a contract awarded pursuant to this ITB. Violation of the foregoing provision may result in contract termination.

- (1) _____ is a **Class A** Business as defined in City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. A copy of the City of Fort Lauderdale current year Business Tax Receipt and a complete list of full-time employees and their addresses shall be provided within 10 calendar days of a formal request by the City.
Business Name
- (2) Langan Engineering and Environmental Services, Inc. _____ is a **Class B** Business as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. A copy of the Business Tax Receipt or a complete list of full-time employees and their addresses shall be provided within 10 calendar days of a formal request by the City.
Business Name
- (3) _____ is a **Class C** Business as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. A copy of the Broward County Business Tax Receipt shall be provided within 10 calendar days of a formal request by the City.
Business Name
- (4) _____ requests a **Conditional Class A** classification as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. Written certification of intent shall be provided within 10 calendar days of a formal request by the City.
Business Name
- (5) _____ requests a **Conditional Class B** classification as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. Written certification of intent shall be provided within 10 calendar days of a formal request by the City.
Business Name
- (6) _____ is considered a **Class D** Business as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. and does not qualify for Local Preference consideration.
Business Name

BIDDER'S COMPANY: Langan Engineering and Environmental Services, Inc. _____

AUTHORIZED COMPANY PERSON: Vincent Yarina _____ 06/20/2015
NAME SIGNATURE DATE

10



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

8/19/2014

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Greyling Insurance Brokerage 450 Northridge Parkway Suite 102 Atlanta GA 30350	CONTACT NAME: Jerry Noyola PHONE (A/C No. Ext): (770)552-4225 E-MAIL ADDRESS: jerry.noyola@greyling.com FAX (A/C No): (866)550-4082														
INSURED Langan Engineering & Environmental Services, Inc. 619 River Drive Center 1 Elmwood Park NJ 07407	<table><tr><th>INSURER(S) AFFORDING COVERAGE</th><th>NAIC #</th></tr><tr><td>INSURER A: Zurich American Insurance</td><td>16535</td></tr><tr><td>INSURER B: American Guarantee & Liability</td><td>26247</td></tr><tr><td>INSURER C: Alterra Excess & Surplus Ins.</td><td>33189</td></tr><tr><td>INSURER D:</td><td></td></tr><tr><td>INSURER E:</td><td></td></tr><tr><td>INSURER F:</td><td></td></tr></table>	INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A: Zurich American Insurance	16535	INSURER B: American Guarantee & Liability	26247	INSURER C: Alterra Excess & Surplus Ins.	33189	INSURER D:		INSURER E:		INSURER F:	
INSURER(S) AFFORDING COVERAGE	NAIC #														
INSURER A: Zurich American Insurance	16535														
INSURER B: American Guarantee & Liability	26247														
INSURER C: Alterra Excess & Surplus Ins.	33189														
INSURER D:															
INSURER E:															
INSURER F:															

COVERAGES**CERTIFICATE NUMBER:**14-15 (Langan)**REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC			GL09242433-02	4/1/2014	4/1/2015	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS			BAP9242432-02	4/1/2014	4/1/2015	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
	UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 0			AUC-9242434-02	4/1/2014	4/1/2015	EACH OCCURRENCE \$ 12,000,000 AGGREGATE \$ 12,000,000
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below Y/N <input checked="" type="checkbox"/> N/A			WC9242431-02	4/1/2014	4/1/2015	<input checked="" type="checkbox"/> WC STATUTORY LIMITS E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
C	Professional Liability E&O-Incl. Pollution Liab.			MAX7PL0001189	4/1/2014	4/1/2015	Per Claim \$1,000,000 Aggregate \$1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

CERTIFICATE HOLDER**CANCELLATION**

Sample Certificate

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Gregg Bundschuh/JERRY

11

Subconsultants

Langan proposes to use the following subconsultants to effectively meet the requirements of the City of Fort Lauderdale's contract. We have included detailed information on the team members in Section 4, Qualifications of the Project Team.

The Chappell Group – Natural Resources & Permitting

The Chappell Group, Inc. (TCG) is a certified MBE/CDBE/WBE firm that covers the specialized fields of wetlands delineation, marina and wetland permitting, marina design, wetland mitigation, and monitoring; threatened and endangered species surveys and habitat management plans; environmental impact assessments; Phase I environmental site assessments; benthic surveys; and all forms of environmental permitting and compliance for Federal, State, and local agencies. In this regard, TCG is unique because engineering, environmental, regulatory, scientific, and operational field expertise are available for multi-disciplinary projects.

TCG clients include the public and private sector throughout Florida, the Caribbean, and the Southeastern United States, TCG is committed to providing technical design expertise with a forward thinking approach, coupled with sound project management in order to achieve the goals and vision of the Client while maintaining a sustainable environment.

Engineered Environmental –Storage Tank Testing and Evaluations

EESI was founded in 1994 by Joseph Ziegler, PE and Kevin Rockett, PG to provide full-scale, turn-key remediation services. The firm specializes in engineering, construction, and equipment services associated with on-site soil and groundwater remediation.

EESI's highly trained staff of project managers, administrators, professionals, remedial equipment specialists, pipe fitters, heavy equipment operators, and environmental field technicians has successfully completed over 2,000 projects throughout Florida.

EESI has two licensed Pollutant Storage Specialty Contractors (PSSC). The firm has successfully removed and closed numerous underground and above ground storage tanks from 100 to 20,000 gallons in size. Services include Permitting, UST and AST removals, UST abandonment-in-place, Tank inerting, Tank purging with our venturi and 185 CFM compressor, Tank monitoring with our LEL/O2 explosimeters, Tank cleaning and liquids disposal, Off-site tank disposal, Source removals – excavation & free product recovery, Backfilling and Paving & site restoration.

Envirodrill – Environmental Drilling

Enviro-Drill, Inc., located in Davie, Florida, began operations in 2004. Services include environmental and geotechnical drilling. The firm's executives have 45 years of combined experience. Envirodrill is a certified Small Business Enterprise (SBE) and County Business

Enterprise (CBE) through Broward County and a Small Business Enterprise (SBE) through the South Florida Water Management District. The firm is also state licensed and carries a \$5 million liability insurance policy.

Enviro-Drill, Inc. is safety oriented and all employees are 40-hour OSHA trained, LPS safety trained and API safety trained. Enviro-Drill, Inc.'s equipment includes Mobile B57 Drill Rig mounted on 2005 International 4300 4x2, Geoprobe DT6620 – Tracked with auger capabilities, Geoprobe 5400 mounted on 1999 Ford F-350, DitchWitch FX30 Vacuum Excavator, seven (7) support trucks, three (3) three service trailers, and two (2) Honda ATV's.

ARS Environmental – Radon Testing, Evaluation and Mitigation

ARS Environmental's personnel have established working relationships with many federal, state, and local agencies. The firm's staff is recognized for their strong capabilities in project management. ARS' experience working with federal, state, and local agencies and the rapport they have developed can facilitate progress in investigation projects. ARS Environmental can identify key agency decision makers and use protocols known to be accepted by each agency.

ARS Environmental's qualifications include:

- NIOSH Certified Air Sampling Microscopist Certified AHERA Inspector Certified Respiratory Protection
- Supervisor AHERA Management Planner, Florida Licensed Asbestos Consultant, EPA Sponsored Asbestos
- & Lead Abatement, Training Instructor State of Florida, Radon Measurement Specialist, Certified Indoor
- Environmentalist, Registered Industrial Hygiene Technologist, Certified Thermographic Specialist

Pace Analytical Services – Sampling and Analytical Services

Pace Analytical is a privately held, full service sampling and analytical services firm operating a network of 23 environmental laboratories and 23 service centers nationwide, plus two Life Sciences laboratories. All the full-service environmental laboratories are NELAC accredited. Laboratories utilize U.S. EPA, ASTM, Standard Methods, NIOSH, and other accepted test procedures and methods, in accordance with federal and state regulations.

The company consists of three divisions: Environmental, Life Sciences and Lab Ops. Analytical testing and related services include analytical chemistry, on-site field sampling, product and material testing, microbiology services, medical device and drug-device combination product testing, professional laboratory staffing, and lab equipment sales and services. Pace Analytical maintains a comprehensive list of certifications and methodologies throughout our laboratories.

In addition to offering full service environmental analytical services, Pace provides the following specialty environmental testing services: Dioxin / Furan, Biota / Sediment, Environmental Forensics, Microbiological, In Situ Monitoring Solutions, Asbestos, Drinking Water Analysis / UCMR-3,

Field Sampling and Analysis Aquatic, Toxicity / Bioassay, Radiochemistry, Air Toxics, Low Level Mercury Analysis, Vapor Intrusion, PCB Congeners, Stack Sampling & Analysis, On-Site Gas Phase FTIR

The Goldstein Environmental Law Firm, P.A.- Environmental/Social Justice Evaluations

The cornerstone of the Firm's practice is the environmental legal counsel rendered to clients in connection with real property transactions, corporate mergers and acquisition, contamination incidents, the day-to-day operations of a private or public sector business, and the evaluation, prosecution, or defense of a wide range of possible contamination related claims.

The firm is frequently involved on the front end of an acquisition to recommend, contract with, and direct and manage qualified environmental consultants to assist with due diligence investigations. As the environmental investigation proceeds through a typical Phase I/Phase II process, the firm will help the client understand the legal and regulatory significance associated with the findings that come out of a soil/groundwater/vapor investigation, including whether contamination conditions require reporting to government agencies and disclosure to adjacent third parties. Additionally, the firm is routinely called on to explain how contamination conditions as they are revealed during a due diligence investigation, may adversely impact on the design, budget, and schedule of site development and construction activities.

The Firm is experienced in pursuing environmental permits, whether they involve a wetland or natural resource matter, an industrial operation, or the handling, storage, dispensing, and disposal of hazardous materials. The firm's environmental legal practice also involves ensuring that, on a day-to-day basis, clients comply with the obligations that are imposed on them as a result of any federal, state, or local permitting requirement. The Firm's deep understanding of how environmental claims are brought and typically litigated also inform the counsel that is provided to clients in a transactional context and shapes the legal and business recommendations that the firm makes.

Subconsultant Licenses

The Chappell Group

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT
115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 • 954-831-4000
VALID OCTOBER 1, 2014 THROUGH SEPTEMBER 30, 2015

DBA: Business Name: CHAPPELL GROUP INC THE Receipt #: 227-13539
Business Type: (COMMERCIAL/CONSULTANT)
Owner Name: SARAH CHAPPELL Business Opened: 04/14/2005
Business Location: 714 E MCNAB ROAD State/County/Cert/Reg: Exemption Code:
Business Phone: 954-367-5674

Rooms	Seas	Employees	Machines	Professionals
		2		

For Vending Business Only				Vending Type:		
Tax Amount	Transfer Fee	NBT Fee	Penalty	Prior Years	Collection Cost	Total Paid
23.00	0.00	0.00	0.00	0.00	0.00	23.00

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT This tax is levied for the privilege of doing business within Broward County and is non-refundable in nature. You must meet all County and/or Municipality planning and zoning requirements. This Business Tax Receipt must be transferred when the business is sold. Business name has changed or you have moved the business location. This receipt does not indicate that the business is legal or that it is in compliance with State or local laws and regulations.

WHEN VALIDATED

Mailing Address: CHAPPELL GROUP INC THE
714 E MCNAB ROAD
POMPANO BEACH, FL 33060

Receipt: BSCP-13-00007426
Paid 07/23/2014 23.00

2014 - 2015

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

BROWARD COUNTY FLORIDA
Office of Economic and Small Business Development
Governmental Center Annex
115 S. Andrews Avenue, Room A680 • Fort Lauderdale, Florida 33301 • 954-357-6400 • FAX 954-357-5674 • TTY 954-357-5664

This Certificate is Awarded to:
THE CHAPPELL GROUP, INC.

As set forth in the Broward County Business Opportunity Act of 2012, the certification requirements have been met for:

**County Business Enterprise
Small Business Enterprise
Anniversary Date: November 8th**

Chris Ackerson
Authorized Representative

The Office of Economic and Small Business Development must be notified within 30 days of any material changes in the business which may affect ownership and control. Failure to do so may result in the revocation of this certificate and/or imposition of other sanctions.
A service of the Broward County Board of County Commissioners
www.broward.org/economic

BROWARD COUNTY FLORIDA
OFFICE OF ECONOMIC AND SMALL BUSINESS DEVELOPMENT
Governmental Center Annex
115 S. Andrews Avenue, Room A680 • Fort Lauderdale, Florida 33301
954-357-6400 • FAX 954-357-5674 • TTY 954-357-5664

November 19, 2014

Ms. Sarah D. Chappell
THE CHAPPELL GROUP, INC.
714 East McNab Road
Pompano Beach, FL 33060

Dear Ms. Chappell:

The Broward County Office of Economic and Small Business Development is pleased to announce that your firm's **County Business Enterprise** and **Small Business Enterprise** certification has been renewed.

Your firm's certification is continuing from your anniversary date, but is contingent upon the firm verifying its eligibility annually through this office. You will be notified in advance of your obligation to continue eligibility in a timely fashion. However, the responsibility to assure continued certification is yours. Failure to document your firm's continued eligibility for the CBE and SBE program within **thirty (30) days** from your anniversary will result in the expiration of your firm's certification. Should you continue to be interested in certification after it has expired, you will need to submit a new application and all required supporting documentation for review.

To review current Broward County Government bid opportunities visit:
<http://www.broward.org/bidopportunities>. Bid opportunities over \$3,500 will be advertised to vendors via e-mail. Please keep both the Purchasing Division and the Office of Economic and Small Business Development apprised of your current e-mail address.

Your primary certification group is: **Contract Services**. This is also how your listing in our directory will read. You may access your firm's listing by visiting the Office of Economic and Small Business Development Directory, located on the internet at: <http://www.broward.org/condes/SmallBusiness/Pages/Default.aspx>. Click on "Certified Firm Directory".

Your firm may compete for, and perform work on Broward County projects in the following areas:
NAICS CODE: 541340, 541620, 541690 and 541990

We look forward to working with you to achieve greater opportunities for your business through county procurement.

Sincerely,
Chris Ackerson
Chris Ackerson, Assistant Director
Office of Economic and Small Business Development

Cert Agency: BC-CBE SBE
ANNIVERSARY DATE: NOVEMBER 8th

State of Florida
**Minority, Women & Florida Veteran
Business Certification**

The Chappell Group

Is certified under the provisions of
287 and 295.187, Florida Statutes for a period from:
02/26/2014 to 02/26/2016

Craig Nichols
Craig Nichols, Secretary
Florida Department of Management Services

Office of Supplier Diversity • 4050 Eastside Way, Suite 201 • Tallahassee, FL 32309 • (904) 687-0011 • www.osd.dms.state.fl.us

International Society of Arboriculture
Certified Arborist

Matthew Mitchell

Having successfully completed the requirements established by the Certification Board of the International Society of Arboriculture, the above named is hereby recognised as an ISA Certified Arborist.

Step Kinan
Certification Board, Chair
International Society of Arboriculture

Jim Skiera
Executive Director
International Society of Arboriculture

FL-6220A Oct 18, 2010 Dec 31, 2016
Certificate Number Certificate Issue Expiration Date

International Society of Arboriculture
Certified Arborist

Patrick E Murphy

Having successfully completed the requirements established by the Certification Board of the International Society of Arboriculture, the above named is hereby recognised as an ISA Certified Arborist.

Step Kinan
Certification Board, Chair
International Society of Arboriculture

Jim Skiera
Executive Director
International Society of Arboriculture

FL-6225A Nov 17, 2010 Dec 31, 2016
Certificate Number Certificate Issue Expiration Date

**State of Florida
Department of State**

I certify from the records of this office that THE CHAPPELL GROUP, INC. is a corporation organized under the laws of the State of Florida, filed on April 14, 2005.

The document number of this corporation is P05000055901.

I further certify that said corporation has paid all fees due this office through December 31, 2015, that its most recent annual report/uniform business report was filed on January 26, 2015, and its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Twenty-sixth day of January,
2015*



Ken Detjen
Secretary of State

Authentication ID: CC295624454

To authenticate this certificate, visit the following site, enter this ID, and then follow the instructions displayed.

<https://file.sosfla.org/verifyauthver.html>

**International Society of Arboriculture
Certified Arborist**

Edwin Tyler Chappell

Having successfully completed the requirements established by the Certification Board of the International Society of Arboriculture, the above named is hereby recognized as an ISA Certified Arborist.

Ship Kinan
Certification Board, Chair
International Society of Arboriculture

Jim Shiers
Executive Director
International Society of Arboriculture

FL-6213A Aug 9, 2010 Dec 31, 2016
Certificate Number Certified Since Expiration Date

Engineered Environmental

State of Florida

Board of Professional Engineers

Attests that

Engineered Environmental Solutions, Inc.



is authorized under the provisions of Section 471.023, Florida Statutes, to offer engineering services to the public through a Professional Engineer, duly licensed under Chapter 471, Florida Statutes.

Expiration: 2/28/2017

Audit No: 228201702314

CA Lic. No:
7144

State of Florida

Board of Professional Engineers

Attests that

Joseph Nicholas Ziegler, P.E.



Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2015

Audit No: 228201511521

P.E. Lic. No:
49375

State of Florida

Board of Professional Engineers

Attests that

Engineered Environmental Solutions, Inc.



is authorized under the provisions of Section 471.023, Florida Statutes, to offer engineering services to the public through a Professional Engineer, duly licensed under Chapter 471, Florida Statutes.

Expiration: 2/28/2015

Audit No: 228201501181

Certificate of Authorization

CA Lic. No:
7144

**LOCAL BUSINESS TAX RECEIPT
TOWN OF LANTANA, FLORIDA**

RECEIPT NUMBER: 06-200301878

EFFECTIVE DATE:
05/22/2006

EXPIRATION DATE
09/30/2015

ENGINEERED ENVIRONMENTAL SOLUTIONS INC
601 N. EAST COAST AVE.
LANTANA, FL 33462

BUSINESS LOCATION:
601 N EAST COAST DRIVE
LANTANA, FLORIDA 33462
LANTANA, FL 33462

NAME OF BUSINESS
ENGINEERED ENVIRONMENTAL SOLUTIONS

BUSINESS CLASSIFICATION:
014 - OFFICE

BUSINESS TYPE:
014 - OFFICE

OWNERSHIP TYPE:
INCORPORATED

SPECIAL CONDITIONS

THIS RECEIPT EXPIRES AS SPECIFIED ABOVE

TO AVOID PENALTIES PLEASE RENEW ON OR BEFORE SEPTEMBER 30, 2015

BUSINESS TO BE CONDUCTED IN CONFORMITY WITH AND SUBJECT TO THE PROVISIONS OF THE ORDINANCES OF THE TOWN OF LANTANA AND THE LAWS OF THE STATE OF FLORIDA.

THIS RECEIPT MUST BE POSTED IN A CONSPICUOUS PLACE

LANGAN

EXHIBIT B
15-1171
114 of 142

STATE OF FLORIDA
WATER WELL CONTRACTOR LICENSE
Issued to
JOSEPH ZIEGLER

License No. 11218 Expires 7/31/2015

DISTRICT CERTIFICATION OFFICER

RICK SCOTT, GOVERNOR KEN LAWSON, SECRETARY

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL GEOLOGISTS

LICENSE NUMBER
 PG2329

The PROFESSIONAL GEOLOGIST
 Named below IS LICENSED
 Under the provisions of Chapter 492 FS.
 Expiration date: JUL 31, 2016

ROCKETT, KEVIN S
 4589 NW 5TH AVENUE
 BOCA RATON FL 33431

ISSUED: 05/14/2014 DISPLAY AS REQUIRED BY LAW SEQ # L1405140001153

ANNE M. GANNON
 CONSTITUTIONAL TAX COLLECTOR
 Serving Palm Beach County

P.O. Box 3353, West Palm Beach, FL 33402-3353
 www.pbtax.com Tel: (561) 355-2264

"LOCATED AT"
 601 N EASTCOAST AVE
 LANTANA, FL 33462

Serving you.

TYPE OF BUSINESS	OWNER	CERTIFICATION #	RECEIPT #DATE PAID	AMT PAID	BILL #
23-0113 POLLUTANT STORAGE CONTRACTOR	ZIEGLER, JOSEPH	PCC058621	814 12/18/14 01/15/14	\$27.00	840121718

This document is valid only when receipted by the Tax Collector's Office.

STATE OF FLORIDA
PALM BEACH COUNTY
2014/2015 LOCAL BUSINESS TAX RECEIPT
LBTR Number: 200610905
EXPIRES: SEPTEMBER 30, 2015

This receipt grants the privilege of engaging in or managing any business profession or occupation within its jurisdiction and MUST be conspicuously displayed at the place of business and in such a manner as to be open to the view of the public.

B1 - 575
 ENGINEERED ENVIRONMENTAL SOLUTIONS INC
 ENGINEERED ENVIRONMENTAL SOLUTIONS INC
 601 N EAST COAST AVE
 LANTANA, FL 33462-1723

RICK SCOTT, GOVERNOR KEN LAWSON, SECRETARY

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD

LICENSE NUMBER
 CBC058400

The BUILDING CONTRACTOR
 Named below IS CERTIFIED
 Under the provisions of Chapter 489 FS.
 Expiration date: AUG 31, 2016

ZIEGLER, JOSEPH NICHOLAS
 ENGINEERED ENVIRONMENTAL SOLUTIONS INC
 601 N EAST COAST AVENUE
 LANTANA FL 33462

ISSUED: 05/18/2014 DISPLAY AS REQUIRED BY LAW SEQ # L1405180001207

ANNE M. GANNON
 CONSTITUTIONAL TAX COLLECTOR
 Serving Palm Beach County

P.O. Box 3353, West Palm Beach, FL 33402-3353
 www.pbtax.com Tel: (561) 355-2264

"LOCATED AT"
 601 N EASTCOAST AVE
 LANTANA, FL 33462

Serving you.

TYPE OF BUSINESS	OWNER	CERTIFICATION #	RECEIPT #DATE PAID	AMT PAID	BILL #
23-0113 BUILDING CONTRACTOR	ZIEGLER, JOSEPH	CBC058400	814 12/18/14 01/15/14	\$27.00	840121718

This document is valid only when receipted by the Tax Collector's Office.

STATE OF FLORIDA
PALM BEACH COUNTY
2014/2015 LOCAL BUSINESS TAX RECEIPT
LBTR Number: 200610903
EXPIRES: SEPTEMBER 30, 2015

This receipt grants the privilege of engaging in or managing any business profession or occupation within its jurisdiction and MUST be conspicuously displayed at the place of business and in such a manner as to be open to the view of the public.

B3 - 574
 ENGINEERED ENVIRONMENTAL SOLUTIONS INC
 ENGINEERED ENVIRONMENTAL SOLUTIONS INC
 601 N EAST COAST AVE
 LANTANA, FL 33462-1723

RICK SCOTT, GOVERNOR KEN LAWSON, SECRETARY

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD

LICENSE NUMBER
 PCC056821

The POLLUTANT STORAGE SYSTEMS CONTRACTOR
 Named below IS CERTIFIED
 Under the provisions of Chapter 489 FS.
 Expiration date: AUG 31, 2016

ZIEGLER, JOSEPH NICHOLAS
 ENGINEERED ENVIRONMENTAL SOLUTION INC
 601 N EAST COAST AVENUE
 LANTANA FL 33462

ISSUED: 05/18/2014 DISPLAY AS REQUIRED BY LAW SEQ # L1405180001323

Envirodrill

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT
 115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 - 954-831-4000
 VALID OCTOBER 1, 2014 THROUGH SEPTEMBER 30, 2015

DBA: ENVIRO DRILL INC
 Business Name: ENVIRO DRILL INC
 Owner Name: JAMES MARK
 Business Location: 15481 SW 12 ST 300
 Business Phone: 954-472-3342

Receipt #: 189-6416
 Business Type: (WATER WELL CONTRACTOR)
 Business Opened: 05/01/2006
 State/County/Cert/Reg: 11031
 Exemption Code:

Rooms	Seats	Employees	Machines	Professionals
		5		

Number of Machines:		For Vending Business Only		Vending Type:		
Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
27.00	0.00	0.00	2.70	0.00	0.00	29.70

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT WHEN VALIDATED

Mailing Address:
 JAMES MARK
 15481 SW 12 ST BLDG UNIT
 300
 SUNRISE, FL 33326

Receipt #158-14-0000041
 Paid 10/16/2014 29.70

2014 - 2015

BROWARD COUNTY
 FLORIDA

Office of Economic and Small Business Development
 115 S. Andrews Avenue, Room A680 • Fort Lauderdale, Florida 33301 • 954-357-6400 • FAX 954-357-5674 • TTY 954-357-5664

This Certificate is Awarded to:
ENVIRO-DRILL, INC.

As set forth in the Broward County Business Opportunity Act of 2007, the certification requirements have been met for:

County Business Enterprise
 Small Business Enterprise
 Anniversary Date: JUNE 11th

The Office of Economic and Small Business Development must be notified within 30 days of any material changes to the business which may affect ownership and control. Failure to do so may result in the revocation of this certificate and/or suspension of other licenses.
 A portion of the Broward County Board of County Commissioners
 www.broward.org/commissioners

**TOWN OF DAVIE
BUSINESS TAX RECEIPT**

6301 SW 43rd St
Davie, FL 33314

Name and Location of Business Tax Receipt

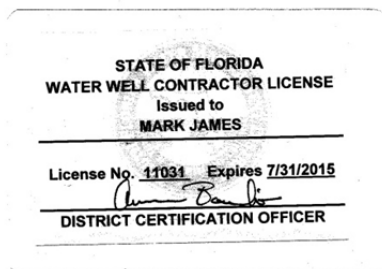
ENVIRO-DRILL INC
8900 SW 21 CT 13
Davie, FL 33317

License Type: Contractors Other
Licensed For & Quantity: Contractors Other 1

License # 35 Phone # 9544723342
Effective Date 01/09/2015 Expiration Date 9/30/2015

REFERENCE: MAILING ADDRESS:
TO: ENVIRO-DRILL INC
ENVIRO-DRILL INC
8900 SW 21 CT #13
DAVIE, FL 33317

Restrictions:
3600



ARS Environmental



Technician State FL
Description Radon Services






10097 Cleary Boulevard, #305, Plantation, FL 33324 • Phone 954-227-2602 • Fax 866-816-5110
www.arsenvironmental.com • sales@arsenvironmental.com



Technician Alex Front State FL
Description Radon Measurement Specialist



10097 Cleary Boulevard, #305, Plantation, FL 33324 • Phone 954-227-2602 • Fax 866-816-5110
www.arsenvironmental.com • sales@arsenvironmental.com

Department of Health, Bureau of Public Health Laboratories
This is to certify that

E83079



PACE ANALYTICAL SERVICES-FLORIDA
8 EAST TOWER CIRCLE
ORMOND BEACH, FL 32174

has complied with Florida Administrative Code 64E-1,
for the examination of environmental samples in the following categories

DRINKING WATER - GROUP I UNREGULATED CONTAMINANTS, DRINKING WATER - GROUP II UNREGULATED CONTAMINANTS, DRINKING WATER - OTHER REGULATED CONTAMINANTS, DRINKING WATER - GROUP III UNREGULATED CONTAMINANTS, DRINKING WATER - MICROBIOLOGY, DRINKING WATER - PRIMARY INORGANIC CONTAMINANTS, DRINKING WATER - SECONDARY INORGANIC CONTAMINANTS, DRINKING WATER - RADIOCHEMISTRY, DRINKING WATER - SYNTHETIC ORGANIC CONTAMINANTS, NON-POTABLE WATER - EXTRACTABLE ORGANICS, NON-POTABLE WATER - GENERAL CHEMISTRY, NON-POTABLE WATER - METALS, NON-POTABLE WATER - MICROBIOLOGY, NON-POTABLE WATER - PESTICIDES-HERBICIDES-PCB'S, NON-POTABLE WATER - VOLATILE ORGANICS, SOLID AND CHEMICAL MATERIALS - EXTRACTABLE ORGANICS, SOLID AND CHEMICAL MATERIALS - GENERAL CHEMISTRY, SOLID AND CHEMICAL MATERIALS - METALS, SOLID AND CHEMICAL MATERIALS - MICROBIOLOGY, SOLID AND CHEMICAL MATERIALS - PESTICIDES-HERBICIDES-PCB'S, SOLID AND CHEMICAL MATERIALS - VOLATILE ORGANICS

Continued certification is contingent upon successful on-going compliance with the NELAP Standards and FAC Rule 64E-1 regulations. Specific methods and analytes certified are cited on the Laboratory Scope of Accreditation for this laboratory and are on file at the Bureau of Public Health Laboratories, P.O. Box 210, Jacksonville, Florida 32231. Clients and customers are urged to verify with this agency the laboratory's certification status in Florida for particular methods and analytes.

Date Issued: August 15, 2014 Expiration Date: June 30, 2015

Carina Blackmore, DVM, PhD, Dipl. ACVPIM, CPM
Chief, Bureau of Public Health Laboratories
DH Form 1687, 7/04
NON-TRANSFERABLE. E83079-12-08/15/2014
Supersedes all previously issued certificates

I certify from the records of this office that PACE ANALYTICAL SERVICES, INC. is a Minnesota corporation authorized to transact business in the State of Florida, qualified on July 29, 2008.

The document number of this corporation is F08000003333.

I further certify that said corporation has paid all fees due this office through December 31, 2015, that its most recent annual report/uniform business report was filed on April 13, 2015, and that its status is active.

I further certify that said corporation has not filed a Certificate of Withdrawal.

Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Twenty-third day of April,
2015



Ken Dietzner
Secretary of State

Tracking Number: CU1960115476

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.

<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>

*State of Florida
Department of State*

I certify from the records of this office that THE GOLDSTEIN ENVIRONMENTAL LAW FIRM, P. A., is a corporation organized under the laws of the State of Florida, filed on December 14, 2011.

The document number of this corporation is P11000105759.

I further certify that said corporation has paid all fees due this office through December 31, 2015, that its most recent annual return/uniform business report was filed on April 28, 2015, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

*GIVEN under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Seventeenth day of June, 2015*

The Seal of the State of Florida is circular. It features a central shield with a palm tree, a sun, and a river. The shield is surrounded by a wreath. The words "THE GREAT SEAL OF THE STATE OF FLORIDA" are inscribed around the perimeter of the seal.

Ken Diefen
Secretary of State

Tracking Number: CUK6108990

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.

<https://services.sos.ohio.gov/Filings/CertificateOfStatus/CertificateAuthentication>

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THE FLORIDA BAR

ABOUT THE BAR	NEWS & EVENTS	FOR THE PUBLIC	NEAREST SERVICES	MY FLORIDA BAR	FIND A LAWYER
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[Search The Florida Bar](#)

Michael Robert Goldstein

Member in Good Standing

Bar Number: 064001

Mail Address:
The Golden Environmental Land Firm, P.A.
1 SE 3rd Ave Ste B120
Miami FL 33131-1702
United States
Office: 305-777-1662
mrgoldstein@goldsteinlaw.com

Email:
vcm@t@gmail.com

County: Miami Dade

Court: 11

Admitted: 12/09/1992

18 Year Discipline History: None

Sections: Environmental & Land Use Law
Real Property, Probate Law
University of Miami School of Law

Law School: Environmental & Land Use Law

Graduation Year: 1992

Firm: The Goldstein Environmental Law Firm

Phone Biz: 2 to 5

Position: Principal Law Practice


Website: www.goldsteinlawfirm.com

Eligible to Practice Law In Florida

[Update My Information](#)

The Florida directory is provided as a public service. The Florida Bar maintains limited, information about attorneys licensed to practice in the state (e.g., name, address, year of birth, gender, law school attended, admission year). However, through this directory The Florida Bar allows individual attorneys the opportunity to provide for public (ethics) related expert-reviewed and professional data. It is the attorney's responsibility to maintain and update their own associated findings. The information contained in these spaces is not "warranted by the Bar" as it is the property of any third party. Florida Bar, the Board of Governors, employees, and agents thereof are not responsible for the accuracy of the information. Publication of this information constitutes a disclaimer within the meaning of the rules that any such unsolicited communications in any form, contain unsolicited uses of this data may result in civil or criminal penalties. The Florida Bar's lawyers directory is not a lawyer-client relationship.


[illegible]

7160272 Business Name/LOCATION GOLDSTEIN ENVIRONMENTAL LAW FIRM PA, THE 1 SE 5 AVE #2120 MAMI PL 33151		RECEIPT NO. 7437729	 EXPIRES SEPTEMBER 30, 2015 Must be displayed at place of business Pursuant to Florida Statute Chapter 88 - Art. 1 & 10
OWNER GOLDSTEIN ENVIRONMENTAL LAW FIRM PA, THE Employee(s) 1	SEC. TYPE OF BUSINESS 312 FIA-CORP/PARTNERSHIP FIRM	PAYMENT RECEIVED PAID TO COLLECTION \$45.00 07/31/2014 FP014-14-006973	

This Local Business Tax Receipt only covers payment of the Local Business Tax. The Receipt is not a license, permit, or a certification of the holder's qualifications, or its holder's. Neither does it constitute an endorsement or approval of the holder's qualifications, or its holder's. Neither does it constitute an endorsement or approval of the holder's qualifications, or its holder's.

THE RECEIPT NO. above must be displayed on all commercial vehicles - Miami-Dade Code Sec. 22-276.

For more information, visit www.miamidade.com/taxcollector



4411113

NAME/NAME/LOCATION
GOLDSTEIN MICHAEL R ESQ
FLA ESQ #2102
MIAMI, FL 33101

RECEIPT NO.
3595647
RENEWAL

EXPIRES
SEPTEMBER 30, 2015
 Must be displayed at place of business
 subject to County Code Chapter 2A - Art. 5 & 10

OWNER
GOLDSTEIN MICHAEL R ESQ
90 GOLDSTEIN ENVIRON LAW FIRM
PA

SEC. TYPE OF BUSINESS
212 ATTORNEY
0604501

PAYMENT RECEIVED
70.00 **07/30/2014**
CHECK#1: 14-04062

This Lateral Business Tax Receipt only confers protection of the Local Business Tax. This Receipt is not a license, permit, or a certification of the holder's qualifications, or its business. Neither does it constitute an endorsement or an approval of the holder's products, services, or quality of the business.

The RECEIPT NO. above must be displayed at all commercial locations. Chapter 2A Code Sec. 6-28.

For more information, visit www.miamidade.com/business

12

NON-COLLUSION STATEMENT

By signing this offer, the vendor/contractor certifies that this offer is made independently and *free* from collusion. Vendor shall disclose below any City of Fort Lauderdale, FL officer or employee, or any relative of any such officer or employee who is an officer or director of, or has a material interest in, the vendor's business, who is in a position to influence this procurement.

Any City of Fort Lauderdale, FL officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement.

For purposes hereof, a person has a material interest if they directly or indirectly own more than 5 percent of the total assets or capital stock of any business entity, or if they otherwise stand to personally gain if the contract is awarded to this vendor.

In accordance with City of Fort Lauderdale, FL Policy and Standards Manual, 6.10.8.3,

3.3. City employees may not contract with the City through any corporation or business entity in which they or their immediate family members hold a controlling financial interest (e.g. ownership of five (5) percent or more).

3.4. Immediate family members (spouse, parents and children) are also prohibited from contracting with the City subject to the same general rules.

Failure of a vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the City Procurement Code.

<u>NAME</u>	<u>RELATIONSHIPS</u>
<hr/>	<hr/>
<hr/>	<hr/>
	<hr/>
	<hr/>

In the event the vendor does not indicate any names, the City shall interpret this to mean that the vendor has indicated that no such relationships exist.

13

CONTRACT PAYMENT METHOD BY P-CARD

The City of Fort Lauderdale has implemented a Procurement Card (P-Card) program which changes how payments are remitted to its vendors. The City has transitioned from traditional paper checks to payment by credit card via MasterCard or Visa. This allows you as a vendor of the City of Fort Lauderdale to receive your payment fast and safely. No more waiting for checks to be printed and mailed.

In accordance with Article 7, item 7.4.3 of the consultant agreement attached herein, payments for all services will be made utilizing the City's P-Card program (MasterCard or Visa). Accordingly, firms must presently have the ability to accept credit card payment or take whatever steps necessary to implement acceptance of a credit card before the commencement of the agreement.

Please indicate with which credit card you prefer to be paid:

☒ Master Card

☒ Visa Card

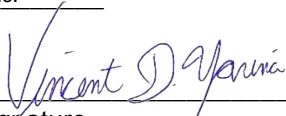
Company Name: Langan Engineering and Environmental Services, Inc.

Vincent Yarina

Name (printed)

06/20/15

Date:


Signature

Associate/Vice President

Title

14

Our Commitment to Sustainability
Began With Ideas.
Today, it's About Action.

2014 Corporate Sustainability Plan

LANGAN

Langan is committed to providing a healthy and safe work environment. Our goal is to stay accident free every day. To promote our goal to employees, Langan management leads a firm-wide effort that goes beyond compliance with applicable federal and state occupational health and safety laws. We have implemented policies, procedures, operations, and technologies that increase awareness and acceptance of our goal.

The Langan Sustainability Program: The Journey from Vision to Plan

“ Langan understands that its employees, clients, and the communities in which we all live, work, and play will thrive in a future built on the principles of sustainability.

A Message from Our President/CEO

The very nature of Langan's technical services and the majority of projects we support involve best practices that lead to a sustainable future.

For example, we remediate brownfield sites, design sustainable stormwater solutions, and utilize recycled materials in foundation engineering. We also help identify and protect threatened and endangered species, encourage the use of mass transit and walkability through advanced transportation planning, and create landscapes that weave organic principles seamlessly into all manner of development projects. Clearly, Langan has always been and will continue to be a sustainable company.

Yet we know we need to do more.

This plan crystallizes our commitment to sustainability through our internal business practices, which includes more than 25 offices worldwide. With this plan, we are recognizing our many ongoing sustainability initiatives, spurring new action and committing to embrace sustainability as a core value.

Specifically, we will train our staff to incorporate sustainability principles into all aspects of our internal operations, including purchasing, office siting and design, office operations, travel, and firm management. Also, we will continue to encourage our employees to lead sustainable organizations and volunteer efforts. With each Langan employee involved, our environmental stewardship will become more deeply ingrained into our corporate culture.

We look forward to making good on the promises we announce in this plan, and to inspiring our colleagues to help shape our shared sustainable future.



David T. Gockel, PE, PP, LEED AP
President/CEO



A Look at Our Progress





Langan and Treadwell & Rollo become one firm

Langan holds an ITRC seminar on sustainable redevelopment

2010



Langan takes a leadership role in SuRF

Shareholders identify sustainability as a strategic initiative and create a Sustainability Leadership Team

2012

100+ LEED Green Associates, LEED APs and Envision™ Sustainability Professionals on staff

Langan teams actively assist clients with sustainability services, including LEED certification, carbon footprinting, and sustainable project optimization

Langan unveils the Sustainability Plan and baselines to all employees

2014

2011

Langan becomes sole corporate founding member of Sustainable Remediation Forum (SuRF) and active on ITRC and ASTM teams to develop guidance for sustainable remediation



2013

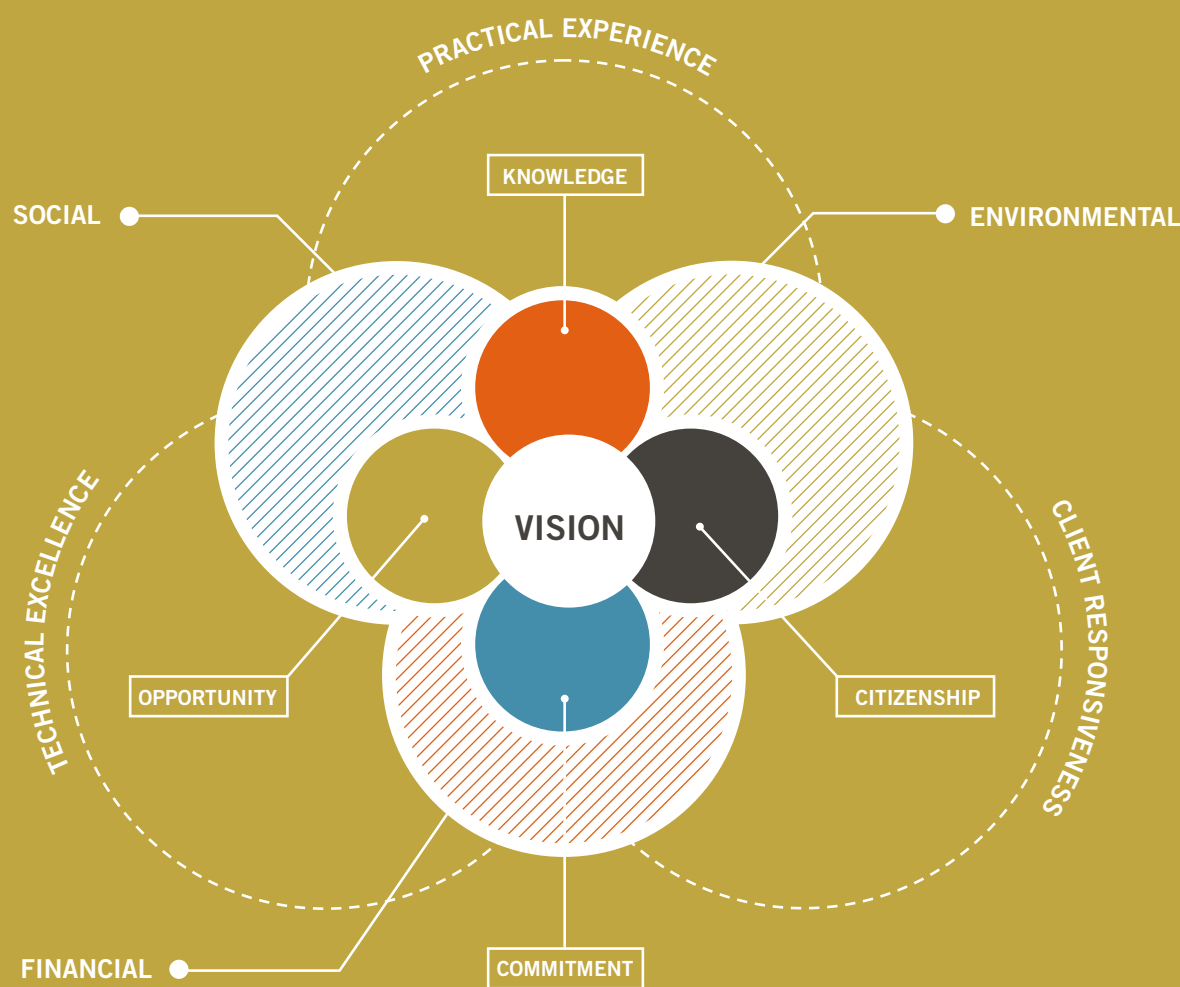
Executive Committee endorses the Langan Sustainability Vision and Policy Statements

Sustainability champions tasked with preparing the Sustainability Plan

Employees respond to web-based sustainability survey; 33% of respondents volunteer to assist

Sustainability champions lead cross-departmental, multi-office teams to develop objectives

Sustainability is the Nucleus of our Culture



Applying What We Stand for to Sustainability

Langan's Vision: To Be the Best in Our Field

Our vision has always been to be recognized by our clients, employees, and competitors as the best engineering and environmental consulting firm.

To achieve this, we relentlessly pursue quality in our work, hire only those who demonstrate the potential to grow, transfer our values and technical knowledge internally, and know our clients and their needs better than any other firm.

Langan's Core Values: To Live and Work with Passion, Pride and Integrity

Our mission is to contribute to the success of our clients by providing an unmatched combination of our people's **technical excellence**, **practical experience** and **client responsiveness**. To achieve that, we pursue excellence in everything we do by demonstrating the following core values:

Knowledge

Embrace learning to benefit ourselves and our clients.

Opportunity

Cultivate an environment of opportunity in which career growth, entrepreneurial spirit and teamwork flourish.

Commitment

Assist in our clients' success by providing exceptional service and personal relationships.

Citizenship

Contribute our time, skills and knowledge to foster positive change in the communities where we live and work.

Langan's Sustainability Vision: Committed to an Integrated Future

We believe that people and organizations will thrive in a future built on the principles of sustainability.

We are committed to building that sustainable future by partnering with clients to expand the breadth of our sustainability services, and to continually train and develop our staff in sustainable design and engineering practices.

Additionally, we will incorporate sustainability principles into all internal operations and

ensure that environmental stewardship continues to be engrained our corporate culture.

We understand that keeping our commitments requires more than a single step. We will, therefore, seek continual improvement, monitoring our sustainability practices every step of the way.

Langan's Sustainability Goals: Quantifying the Financial, Environmental, and Social Effects of Our Program

To support our sustainability vision, we are setting quantifiable goals that correspond to our core values and address the three pillars of sustainability: financial, environmental, and social.

We will evaluate our performance annually and set ever higher benchmarks to ensure that we continue to have a positive and far-reaching effect on our world.

“ Langan sees Sustainability as an opportunity for new business, increased cooperation between offices and career advancement.

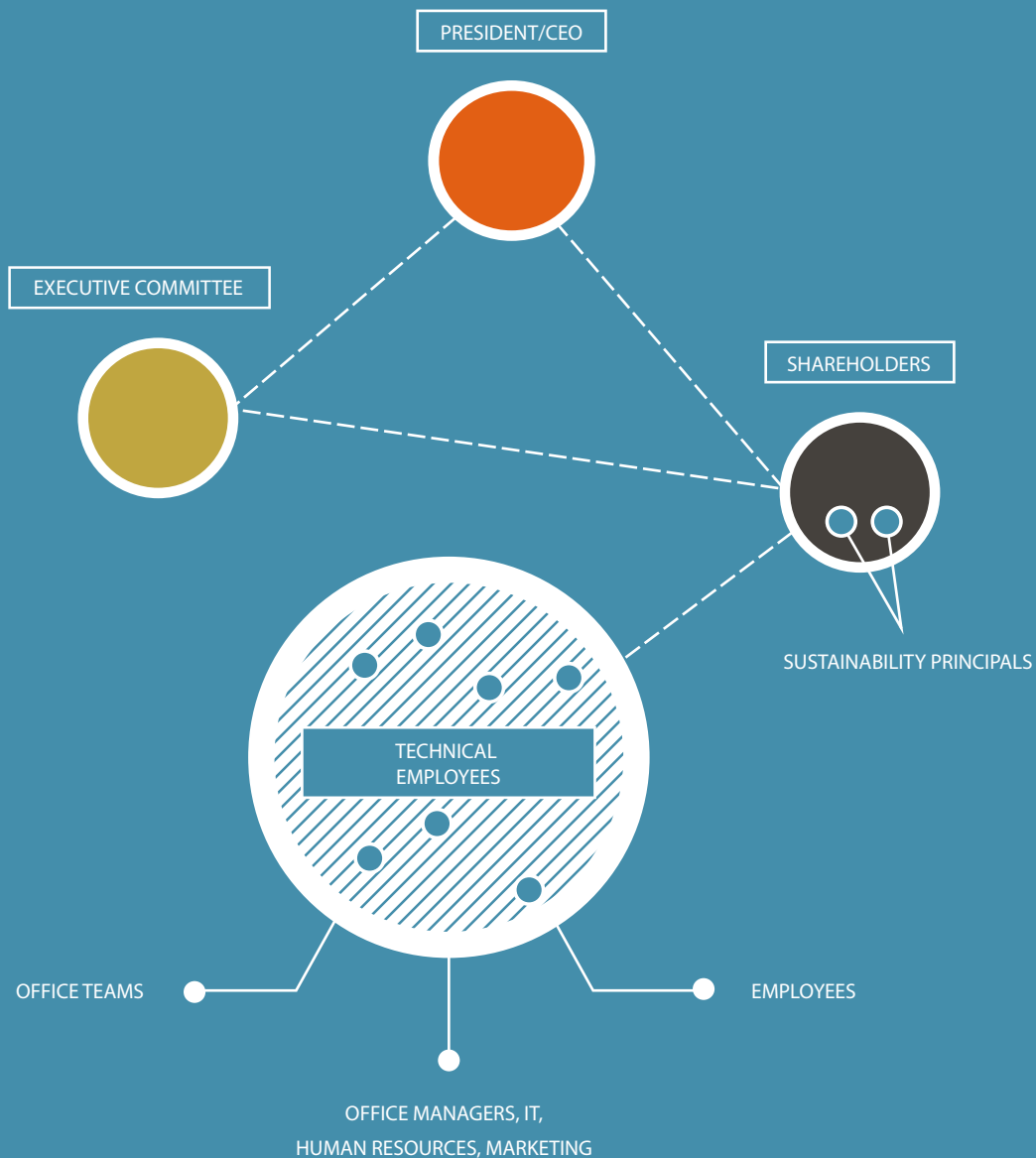
I’m excited to be part of a growing company that considers sustainability to be part of their business model.

— Carolyn Paone, PE, LEED AP, Project Engineer

“

Langan will be as committed to sustainability as we have been with so many causes since the firm has been in existence.

- Gregg Woodruff, PP, AICP, LEED-AP BD+C, Senior Project Manager



What's Next for Langan's Sustainability Program: Upping the Ante on Our Commitment

We have already accomplished a lot and now we are taking Langan's Sustainability Program to the next level by making it an integral part of our corporate culture. Such integration will require specific commitments within the three pillars of sustainability.

Our Commitment to the Three Pillars of Sustainability

FINANCIAL: CONTINUED STRENGTH

Develop and further expand sustainable practices with our clients.

Maintain growth-focused operations.

Reward employees' efforts.

Remain financially strong.

Continue to foster a client-focused culture.

Hire and grow exceptional employees.



ENVIRONMENTAL: JUDICIOUS STEWARDSHIP

Continue environmental stewardship.

Conserve energy, water, and other natural resources.

Implement pollution prevention and waste minimization.

Comply with applicable environmental regulations.

Work with government agencies to develop workable environmental guidelines.



SOCIAL: CONNECTION TO COMMUNITY

Contribute time, skills, and knowledge to foster positive change in the communities where we live and work.

Deepen connections to our communities.

Provide opportunities for employees to contribute globally, regionally, and locally.




Langan's Sustainability Strategies: Realizing the Three Pillars Through Our Core Values

A promise is meaningless without a plan. Here's how our core values have led to specific strategies, ensuring that we will achieve our commitments to each of the three pillars.

Core Value: Commitment

Applied to sustainability, **Commitment** means we are pursuing strategic growth in our core business areas and expanding the breadth of our sustainability services. We will make this concrete through the following objectives and goals:

Objective	Goal	Impact
Pursue strategic growth in our core business areas: green design, stormwater management, sea level rise adaptation, sustainable remediation, etc.	Establish baseline, technical leads, launch 2015, 20% Growth	 
Enhance the website and create our marketing materials to promote and grow key services.	Ongoing	 
Expand our sustainability services.	Ongoing	 
Communicate our sustainability goals to vendors and subcontractors.	Ongoing as part of Company Policy	
Establish a sustainability category for "Project of the Year."	2015	
Develop and launch a carbon calculator template for projects.	2015	
Identify a corporate sustainability director.	Long-term	
















Core Value: Knowledge

Applied to sustainability, **Knowledge** means that we are constantly furthering our awareness and understanding of sustainability principles and practices. We will make this concrete through the following objectives and goals:

Objective	Goal	Impact
Reduce paper use through "green" office practices.	Establish baseline and Reduce 20% or more by end of 2015	 
Extend paperless office practices through the use of web-based and electronic forms.	2014	 
Establish a green purchasing that provides direction on environmentally preferable materials, including office supplies, appliances, vehicles, and catered meals.	2015	 
Establish firm-wide green office guidelines modeled after Bay Area Green Businesses.	2014	 
Re-energize a Green Team in each office to carry out green office standards and support our sustainability program.	Q3 2014	 
Add a sustainability side bar to the intranet page to encourage collaboration and share knowledge.	Q4 2014	
Enhance our sustainability web page.	Ongoing	
Increase employee incentives for using alternative means to commute and travel.	Ongoing	 
Implement flexible work schedule.	Q3 2014	  

Core Value: Opportunity

Applied to sustainability, **Opportunity** means we are providing a progressive environment in which employees are the foundation of our effort and through which we will attract and retain the best and the brightest. We will make this concrete through the following objectives and goals:

Objective	Goal	Impact
Enhance sustainability-focused in-house training.	Quarterly training event	 
Maintain continuing education credentials and enhance our technical excellence in sustainability services.	Develop training credential information for Intranet and establish credential leads 2015	 
Provide sustainability program information to employees through company policy materials and training programs.	Q3 2014	
Provide continual training and staff development opportunities related to sustainable design and engineering practices.	Ongoing	 
Implement a sustainable design review as applicable and appropriate.	2015	 
Identify a sustainability-focused 401(k) investment option for employees.	Long-term	 
Add sustainability topics as agenda items at corporate and staff meetings.	Rotating topic for Monday Managers Meetings Q1 2015	
Identify ways in which sustainability can become a forum for employee team building.	Ongoing	
Develop an office plant and green wall program.	Long-term	 

Core Value: Citizenship

Applied to sustainability, **Citizenship** means promoting volunteerism and charitable giving by all team members at all levels. We will make this concrete through the following objectives and goals:

Objective	Goal	Impact
Cultivate and support a spirit of volunteerism focused on supporting sustainability organizations.	Ongoing	
Develop programs and support staff efforts to educate the general public about sustainability.	Ongoing	 
Develop a corporate sustainability grant program for employee requests.	2015	  
Develop funds for internal office sustainability incentive and challenge programs.	2015	 
Develop a corporate budget for sustainability-related organizations and employee efforts .	2015	 

Measuring Our Progress and Success

Langan will establish baselines for each objective. Once established, we will:

- Measure progress annually.
- Revise strategies and goals each year.
- Prepare an Annual Sustainability Report to communicate our progress to the company, our clients and friends and post the reports on our web page.
- Employ a third-party peer review.
- Develop a Global Reporting Initiative (GRI) within the next three to five years.

Above all, we pledge to **move the bar ever higher as our program develops and evolves.**



Commitment is practicing what we preach – to get the work we want and to see the positive impact on the bottom line and in our communities.

— Spencer Finch, PE, LEED AP, Project Engineer

Making Our Sustainability Program Accountable

A Message from Langan's Sustainability Principals

All Langan shareholders and principals have personal and professional interests in transforming the sustainability effort into an established program with clear goals.

By establishing our operational baseline and measuring our progress, we will be:

- Continuing to fulfill Langan's sustainability vision.
- Surpassing our competitors.
- Operating responsibly.
- Recruiting the best talent.
- Developing related businesses and services.

Above all, Langan's program will evolve as goals are met and as new objectives are established.

Many employees have assisted in the sustainability effort and they share our passion for improving our performance and expanding our business opportunities. We will continue to rely on their commitment as we all work to improve our world.



Dorinda Shipman, PG, CHG, Env SP
Principal/Vice President




Michael Szura, PLA, ASLA, LEED AP
Principal/Vice President



Meet Langan's Sustainability Program Champions

The insightful leadership and relentless passion of our Sustainability Program Champions have been the driving force for developing Langan's expertise in the field of sustainability. These champions continue to advance sustainability principles and practices within and outside the firm by:

- Promoting Langan's sustainability philosophy through educational efforts and leadership roles within affiliate organizations.
- Providing direct sustainability-related services and guidance on Langan projects.
- Developing relationships with key sustainability business partners.
- Directing external sustainability education and communications.
- Driving the sustainability direction for the firm through our local Green Teams.

Nate Burns

PLA, ASLA, LEED AP BD+C
Doylestown, PA



Christopher Glenn

PE, LEED GA
Oakland, CA



Michael Nilson

PE, LEED AP
New York, NY



Spencer Finch

PE, LEED AP
Philadelphia, PA



Carolyn Paone

PE, LEED AP
Philadelphia, PA



Gregg Woodruff

PP, AICP, LEED AP BD+C
Elmwood Park, NJ



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Worldwide commitment to green principles and sustainability is unquestionably here to stay. I am proud to be part of a company that has elevated these important sustainability issues to the highest level.

Our ability to develop and adhere to sustainable principles in our daily work habits, in our design efforts, and in our lives outside of the office will shape the future for ourselves and for generations to come. Knowing how Langan employees address important issues, I am confident that we can make our Sustainability Plan a success.



— George P. Kelley, PE,
Managing Principal/Chairman of the Board

