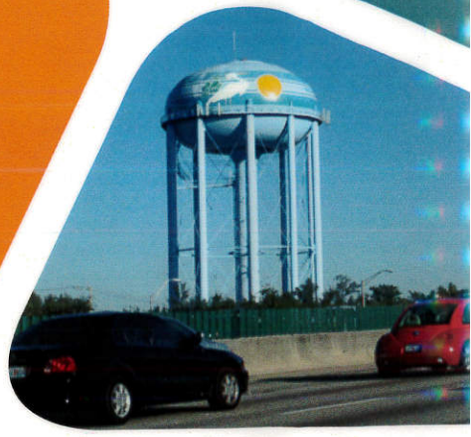
HOLLYWOOD
Like Nowhere Else!

ORIGINAL

Environment Engineering Services

RFQ-4427-14-IS



Kimley»Horn

NZ290006.14

Kimley»Horn

August 19, 2014

City of Hollywood, Office of the City Clerk
2600 Hollywood Boulevard, Room 221
Hollywood, FL 33020

RE: Environment Engineering Services, RFQ-4427-14-IS

Dear Members of the Selection Committee:

Kimley-Horn is responding to the City of Hollywood's RFQ to provide Engineering Services to Hollywood, Florida. Selecting the right Engineering Firm is the first and possibly the most important step in developing the 22 acres of City-owned property located at 1600 South Park Road. Kimley-Horn provides a unique skill set for the development of contaminated properties. Our experience and ability to integrate site assessment, cleanup, and landfill closure with the redevelopment elements of planning, site civil design, permitting, construction, and operation are unsurpassed. We approach sites like yours with an end use in mind; every step we take in the process for Brownfield redevelopment is focused on maximizing the end use of the property while meeting the City's goals. We have a proven track record with similar projects and with successful projects within the City of Hollywood, including work for the CRA and the Department of Public Utilities. Our experience qualifies us like no other firm and offers you the following benefits:

- An established relationship with the City and the CRA
- Knowledge of the regulatory processes and regulators
- A successful track record of completed redevelopment of contaminated properties, including landfills
- Experience in developing consensus and obtaining support from stakeholders
- Knowledge of the community
- Experience in obtaining and maximizing benefits related to Brownfield redevelopment
- Relationships with developers and end users to facilitate redevelopment of the property

We know the Brownfield and landfill redevelopment processes from beginning to end. Because of our extensive planning, site civil design, and permitting experience, we are able to integrate these services into a turnkey approach to Brownfield redevelopment in your community. Our knowledge of the Brownfield Process will provide a solid foundation upon which to base the redevelopment of the site. Everything we do is focused on an end use—not just the completion of an environmental report.

Responsive and Accessible Contacts. Kimley-Horn strives to deliver technical excellence and timely service with practical, financially beneficial solutions. Our team is responsive and readily available, and we are committed to examining ways to reduce the City's costs. We will work closely with you to define your specific needs while implementing sound engineering and environmental solutions. Kimley-Horn's Miami office will provide project management. **Brenda Westhorp, P.E.**, Kimley-Horn's project manager, is your trusted advisor for this project. She will be your primary contact and is personally responsible and committed to the success of your project.

1221 Brickell Avenue, Suite 400, Miami, FL 33131
Telephone: (305) 535-7718; Fax: (561) 863-8175
Brenda.Westhorp@kimley-horn.com

Highly Qualified Project Manager. Brenda has close to three decades of experience in managing and designing environmental engineering projects in Florida, California, and Hawaii. Her expertise is in solid waste management and includes planning, permitting, design, and construction of a wide variety of projects, including redevelopment on former landfills. She is currently the Principal-in-Charge for a $4.9 million design services contract for the South Dade Landfill in Miami-Dade County. She has successfully closed a number of solid waste facilities, including a one-square mile Superfund site in Miami-Dade County. She has expertise in developing closure documents, including long-term care plans and is knowledgeable of the applicable rules and regulations for closed landfills.

Strategic Partners. In addition to Kimley-Horn's in-house experts, our team for this project includes four subconsultant partners. These firms include **Gibbs Land Surveyors** for site surveying, **Geosyntec Consultants** for geotechnical services, **Pace Analytical** will serve as our testing lab, and **Earth Tech Drilling** will provide environmental drilling. The members of this team have successfully worked

together on numerous projects, including, but not limited to, the Biscayne Commons Brownfield Development and the South Dade Landfill Cell 3 Closure.

Award-Winning Brownfields Program Experience. Kimley-Horn has worked on over 30 Brownfields projects within the state of Florida program. We know the program and, because we have successfully provided comprehensive services so many times, we know the regulators. Our services have included Brownfields assessment, remediation design, public outreach, programmatic support, and urban redevelopment. Kimley-Horn's Brownfields projects in Florida and EPA Region 4 have won awards from both state and national organizations and have been used by FDEP as examples of how to address, clean up, and redevelop a contaminated property. In fact, our Midtown Miami project received the 2009 Phoenix Award for EPA Region 4. Phoenix Awards are given on an annual basis to those Brownfields projects that, from a national perspective, provide the greatest benefit to the community and are considered the "best of the best." Midtown Miami is only the third Phoenix Award recipient in the state of Florida, and it is an outstanding example Kimley-Horn's ability to integrate its full range of services on a Brownfield redevelopment project. You can learn more about Midtown Miami in Section 6 of this submittal.

Agency Coordination and Funding. Our experience with similar projects has built strong relationships with the agencies that will be working with the City. We routinely work with FDEP and the EPA on similar projects and understand the regulatory and reporting guidelines for Brownfields funding and reporting, tax credit opportunities, and approvals. Our team has also worked with the EPA in securing and administering grants and low interest loans for the cleanup of Brownfields properties in Florida. Our relationships with these agencies will facilitate Brownfield redevelopment of the site. Kimley-Horn has generated more than $700 million in capital investment for the redevelopment of Brownfield sites in the state of Florida alone. Our ability to assist clients with funding issues is unchallenged. In fact, Kimley-Horn has secured more than $6 million in Brownfield tax credits and grant funding for our clients. We know what it takes to successfully win and implement EPA assessment grants, as well as securing additional EPA funding as we have done on other projects in Florida. We also are well connected with developers and end users for the site. Our extensive network of land development clients allows us to identify potential users and facilitate development of the property.

Urban Redevelopment. Throughout the successful implementation of redevelopement, our number one priority is to protect human health and the environment. We are also eager to assist the City of Hollywood in promoting sustainable redevelopment through the use of green building and green space designs. With Kimley-Horn, you have access to highly successful redevelopment and reuse experts whose core disciplines and expertise encompass integrated engineering, planning, and environmental services. Our keen insight into the requirements for a successful project from acquisition to final development can help you reach your goals. We will partner with you to provide a creative, comprehensive approach to development that works with the natural environment, enhances local and regional economies, and results in a healthy, viable community for the next generation of residents and visitors.

Cost Effective. Kimley-Horn has a long history of providing reuse planning while weighing the impacts of redevelopment with environmental challenges. Our Brownfields redevelopment approach is based on the simple principle of form follows finance—a project that is never implemented cannot make an impact. Our successful completion of many Brownfields projects provides us with the knowledge of what information is required, and how to cost-effectively collect that information. Through the use of our field screening tools, site assessment approaches, and expedited site assessment activities, we can reduce overall assessment costs and time, maximizing the redevelopment of your property.

Summary. With the selection of Kimley-Horn, the City of Hollywood is accessing not just a civil and environmental engineering firm, but rather a turnkey Brownfields redevelopment team who can provide access to the many disciplines required to attain the long-term vision of community redevelopment and environmental justice. We are eager to assist you in the implementation of this project, and we sincerely appreciate this opportunity to present our qualifications to you.

Very truly yours,
KIMLEY-HORN

Brenda Westhorp, P.E.
Project Manager

Jay Jackson, P.E.
Senior Vice President/Principal

HOLLYWOOD
Like Nowhere Else!

Environment Engineering Services
RFQ-4427-14-IS

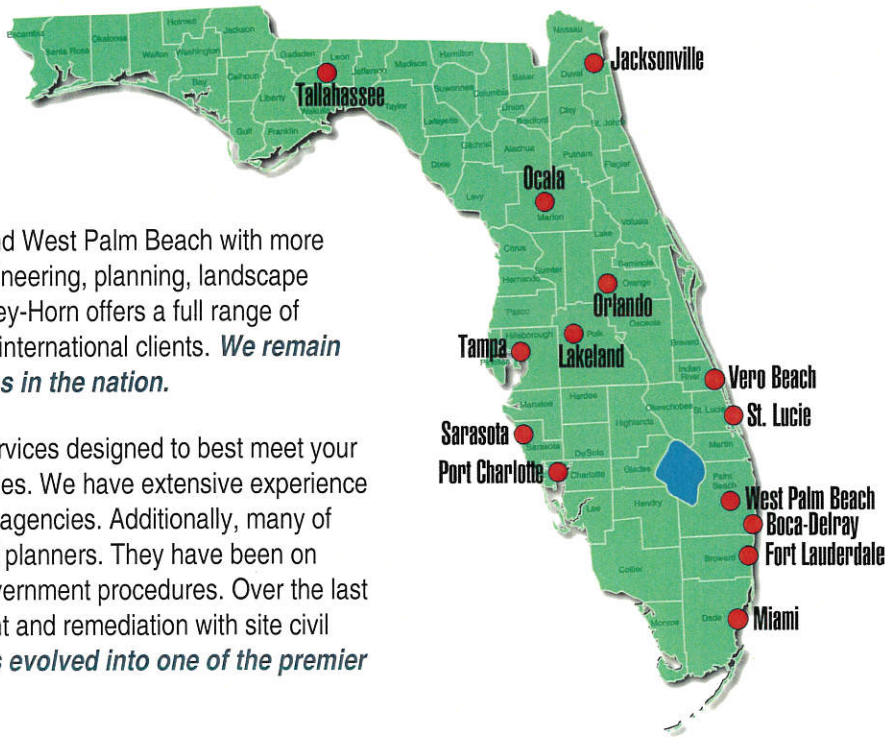
Table of Contents

Kimley»Horn

CONSULTANT PROFILE

Firm Background

Kimley-Horn was founded in 1967 and is now one of the largest and fastest growing full-service consulting firms in Florida. Our permanent staff includes more than 2,200 professional, technical, and support staff nationwide and more than 430 employees in 14 offices throughout Florida. Kimley-Horn has four South Florida offices in Miami, Fort Lauderdale/Plantation, Boca-Delray, and West Palm Beach with more than 200 staff available to serve you. As a civil engineering, planning, landscape architecture, and environmental services firm, Kimley-Horn offers a full range of consulting services to local, regional, national, and international clients. ***We remain one of the few employee-owned consulting firms in the nation.***



Kimley-Horn provides an integrated spectrum of services designed to best meet your immediate needs, as well as your big picture priorities. We have extensive experience serving municipalities, counties, and governmental agencies. Additionally, many of our employees are former municipal engineers and planners. They have been on your side of the table and are familiar with local government procedures. Over the last 15 years, through our integration of site assessment and remediation with site civil design, permitting, and planning, ***Kimley-Horn has evolved into one of the premier Brownfields redevelopment firms in the state.***

Kimley-Horn's quality work environment and stable employee base has led to recognition with two major employer-of-choice awards. *Fortune* magazine recently selected Kimley-Horn as one of its 100 Best Companies to Work For. In addition, *Engineering News-Record* ranked Kimley-Horn 33rd of 500 U.S. design firms, 15th in transportation, and 15th among "pure design firms" in 2014. Much of our growth extends from the confidence and trust that clients have in us. Kimley-Horn's long record of technical achievements is enhanced by our reputation for effective management and personal service. ***Our clients benefit from the resources of a nationally recognized organization while receiving the personal attention and response of a small dedicated professional team.***

Corporate Information

Corporate Headquarters:
3001 Weston Parkway
Cary, NC 27513
Telephone: (919) 677-2000
Fax: (919) 677-2050
www.kimley-horn.com

Number of Years in Business: 47

Number of Employees: 2,278

Certificate of Authorization License Number: 821359
A copy of our Certificate of Authorization, as well as our firm licenses are included in the Administrative Section of our submittal.

Location of Office

Kimley-Horn's Miami office will serve as the primary office responsible for work related to this project with support from our nearby Fort Lauderdale/Plantation office. We will work with the City of Hollywood to establish the schedule and scope of work, and serve in close proximity as the direct contact with the City for the duration of the assignment. Additionally, our experts throughout the state and across the country are available for technical support to ensure timely completion and fulfillment of project goals.

Business addresses:

1221 Brickell Avenue, Suite 400
Miami, FL 33131
Telephone: (305) 673-2025
Fax: (561) 863-8175
Brenda.Westhorp@kimley-horn.com

600 North Pine Island Road, Suite 450
Plantation, FL 33324
Telephone: (954) 535-5100
Fax: (561) 863-8175

Types of Professional Services

Kimley-Horn provides an integrated spectrum of engineering, planning, and environmental services. We have extensive experience serving municipalities, counties, and governmental agencies. Because we are a multidisciplinary firm, we have the expertise and personnel to tackle all aspects of your project outlined in the RFP and take you through the entire redevelopment process. We are very familiar with the issues facing the City of Hollywood and our capabilities and expertise in the following types of services will provide direct benefits to the City.

These services include:

- Site assessment and remediation design
- Solid waste permitting and closure
- Brownfield services
- Public outreach
- Grant preparation and management
- Site planning
- Master planning
- Site civil design
- Roadway
- Stormwater
- Traffic

TECHNICAL APPROACH TO PROJECTS

Kimley-Horn provides a unique skill set for development of contaminated properties and closed landfills in the state of Florida and that includes Hollywood. Our experience and ability to integrate site assessment, cleanup, and landfill closure with the redevelopment elements of planning, site civil design, permitting, construction and operation are unsurpassed. Every step we take in the process for Brownfield redevelopment is focused on the end use of the property. This process includes those elements specified in the City's redevelopment objectives stimulation of redevelopment. These objectives include the identification of projects that are financially feasible, generate revenue, sustainable, include stakeholder input, promote quality design, and insure accessibility. Our current work with the City and Community Redevelopment Agency (CRA) allows us to have a thorough understanding of the challenges facing the community and how the redevelopment of this property can meet the needs of the City. We believe we provide the best option for redevelopment of the subject site. Our proposed approach is provided below.

We understand that the City is most interested in selling the property and having a developer redevelop the site. Therefore we believe we need to position the property in such a manner that it is favorable for redevelopment. We will accomplish this by insuring every step we take in the process is based on an end use.

The first step in the redevelopment potential of this project is understanding that this project is a land development project with environmental and geotechnical challenges. This is not an exercise in environmental assessment and cleanup, as much as it is a process to position this property in such a manner as to facilitate redevelopment that is consistent with the needs of the City and stakeholders. We will come up with solutions for the environmental and geotechnical challenges. We have done this for numerous other similar sites within the state of Florida. More importantly, we will need to understand how the environmental and geotechnical solutions integrate with the planning, site civil design, permitting, construction, and occupancy of the site. Our step by step approach consists of the following elements.

1. Understanding environmental and geotechnical challenges on the property
2. Developing consensus with stakeholders and the City on redevelopment objectives in the context of the environmental and geotechnical challenges
3. Identifying closure alternatives for environmental liabilities including the Brownfield program or applicable solid waste regulations
4. Identifying planning, site design, permitting, and construction challenges
5. Identifying funding sources and mechanisms
6. Identifying end users and developers

Our first step is to understand the environmental and geotechnical challenges facing the redevelopment of the site. We will incorporate current knowledge of the site into a series of environmental and geotechnical components. Each component will have an associated risk and, where applicable opinion of probable cost. We will take this information and provide it to the City. At this point will begin discussions on consensus building and identification of stakeholders. This includes potential developers of the property. Due to our extensive experience with land development projects in Hollywood and South Florida, we are well connected with developers throughout the state and county that may consider redevelopment of the site. Through a series of meetings with the City, and if warranted the public, we will develop an idea of the redevelopment goals of the property.

Once the redevelopment goals are identified we will establish closure alternatives for environmental liabilities. This includes evaluation of entering into a Brownfield Site Rehabilitation Agreement (BSRA) and review of potentially more stream lined redevelopment under current solid waste regulations that are applicable to the site. During this time we will provide opinions of probable cost and potential work scopes that may be required to accomplish redevelopment. This will include evaluation of risk and liability transfer mechanisms, such as insurance.

While we are identifying the methods by which to address the environmental challenges we will be working with our in-house planners, engineers, and scientists looking at how the planning, site design and permitting, and construction components will be impacted. These components include evaluation of stormwater, grading, utilities, and layout relative to environmental impact, wastes, and geotechnical

investigation. We will also evaluate the need for engineering controls such as a vapor barrier. We will adjust our environmental and geotechnical approach based on the most time and cost-effective approach to achieve the redevelopment goals and meets the requirements for the different redevelopment components.

Identification of funding mechanisms will be a critical part of our role. We have successfully obtained the following types of funding for our clients on similar redevelopment projects and will do the same for the City.

- EPA Brownfield Assessment Grant
- EPA Revolving Loan Fund
- SR 128 a State Cleanup Grant
- Voluntary Cleanup Tax Credits
- Job bonus tax credits
- Affordable housing building materials tax refund

We will take the above potential funding sources into consideration in our opinions of probable cost and schedule to maximize the benefits of the funds and timing.

As part of our initial evaluation we have prepared a general site plan for the property based on our current knowledge of the City of Hollywood and our experience in the City. This is just an example of how we can help the City achieve their goals and is subject to change based on the process described above. As shown on the attached plan on the next page, we believe the City may consider reuse of the property that includes integration of health care services associated with Memorial Regional Hospital South. This may include health care offices and assisted living facilities. The remainder of the property may be used for commercial and industrial purposes. Please note that we have included the construction of a lined pond for stormwater control. We will determine during our initial evaluation if a lined pond is warranted.


WASHINGTON STREET
SOUTH 37TH AVE.
MEMORIAL REGIONAL HOSPITAL SOUTH
HILLCREST DR. ROW +/- 2.5 AC.
HILLCREST DRIVE
MULTI-FAMILY/ ASSISTED LIVING FACILITY +/- 8.3 AC.
MEDICAL/ HEALTH CARE/ OFFICE +/- 1.8 AC.
MEDICAL/ HEALTH CARE/ OFFICE +/- 1.8 AC.
MEDICAL/ HEALTH CARE/ OFFICE +/- 2.1 AC.
50' ROW
HILLCREST CONDOMINIUMS
GOLF STREET
HILLCREST GOLF & COUNTY CLUB
DRY RETENTION (LINED) +/- 5.1 AC.
COMM. +/- 1.8 AC.
COMM. +/- 1.8 AC.
COMM. +/- 1.9 AC.
INDUST. +/- 2.0 AC.
SOUTH PARK ROAD
PEMBROKE ROAD
COCA-COLA
SITE STATISTICS
TOTAL SITE AREA: +/- 32.0 AC.
HILLCREST DR. ROW AREA: +/- 2.5 AC.
DEVELOPMENT AREA: +/- 29.5 AC.
COMMERCIAL AREA: +/- 5.5 AC.
MEDICAL/ H.C./ OFFICE AREA: +/- 5.7 AC.
INDUSTRIAL AREA: +/- 2.0 AC.
MULTI-FAMILY/ ALF AREA: +/- 8.3 AC.
DRY RETENTION AREA: +/- 5.1 AC.
INTERNAL 50' ROW AREA: +/- 2.9 AC.
South Park Road Redevelopment Site
Conceptual Bubble Plan
CITY OF HOLLYWOOD, FLORIDA
SCALE: IN FEET
DATE: 15 AUGUST, 2014
Kimley»Horn

QUALITY CONTROL

Kimley-Horn's commitment to project excellence is reflected in the fact that approximately 80 percent of our services are for repeat clients—a testament to our commitment to quality for every task, deliverable, and service provided by the firm. Quality is a keystone principle of Kimley-Horn and is one of the key attributes that has enabled us to become one of the leading consulting firms in the country and it is absolutely essential to our continuing success. The objective of our QA/QC program is to help ensure that all deliverables conform to project requirements and are void of errors and omissions. Our QA/QC program is based on the philosophy that:

- Quality is ***achieved*** by adequate planning, coordination, training, supervision, and technical direction; proper definition of the job requirements and procedures; understanding the scope of services; and the use of appropriately skilled personnel performing work functions carefully.
- Quality is ***assured*** through the careful checking, reviewing, and surveying of work activities by individuals who are not directly responsible for performing the initial efforts.
- Quality is ***controlled*** by assigning a manager to evaluate all work and procedures followed while providing the services.
- Quality is ***verified*** through independent reviews by a qualified staff member of the processes, procedures, documentation, supervision, technical direction, and staffing associated with the project development. Project quality is "built-in," not added on. Quality work is the direct result of careful, properly sequenced, and supervised production, and continuous checking of each work element for completion and correctness by the task leader and project manager.

Our formal QA/QC program is based upon assigning experienced senior professionals—who are otherwise qualified to manage a particular project—to serve in an independent quality control role. Our staffing depth allows us to provide such personnel, and their involvement provides the project with a fresh perspective and critical eye.

Our internal QA/QC program will include:

- An internal kick-off meeting held with key team members assigned to the job to clearly define the scope, outline sub-task responsibilities, establish schedules, and identify project milestones and goals.
- At the end of each phase, a QA/QC review will be conducted as one of several final checks to ensure that the project deliverable is technically correct and consistent with your objectives.
- Any modifications required to respond to the comments and recommendations of the quality control team will be incorporated during the ongoing analysis prior to submitting our plans to you.

STAFF QUALIFICATIONS AND PROJECT TEAM

Project Management Capabilities

Kimley-Horn recognizes that both a strong project manager and experienced management team are key to exceed your expectations for each assignment and execute this project successfully. Our project manager, **Brenda Westhorp, P.E.**, will be the one point of contact for the City of Hollywood. She will direct each assignment and have complete authority to allocate Kimley-Horn resources.

Our standard management practices require that project managers prepare a detailed work plan and management plan for each assignment. This work plan includes all project elements such as staffing, schedule, project requirements, and implementation strategies. Our approach to project management is characterized by the following philosophies and policies, which are ingrained in Kimley-Horn's culture:

- Our project management plan will promote efficiency, clarify communication protocols, and provide project direction.
- Our project management plan will clearly identify the staffing requirements, schedule, budget, and plan for effective quality control and independent reviews, producing a result that exceeds expectations.
- We will view the project from your perspective, examine issues in a strategic context, and provide you with tactical solutions.

In short, Kimley-Horn has a no-nonsense, team-oriented, results-driven management approach that is saturated with top-quality, highly motivated professionals who consistently produce superior results. We have the depth of resources, local experience, and diversity of expertise to assist you with the redevelopment of Hollywood's property under the Environmental Engineering Services Contract.

Our Project Team

Kimley-Horn understands that when you select an engineering consultant, you are really choosing people who offer you technical expertise, extensive hands-on experience with similar projects, and a demonstrated record of quality and responsiveness that will make your project a success. Kimley-Horn's culture is structured to hire and retain highly motivated employees who exude pride and enthusiasm for Kimley-Horn and the services we provide.

We have organized a core team of practiced professionals to provide a high level of responsiveness to the City of Hollywood, both in terms of exceptional local interaction and support, and extensive technical experience in the disciplines you require. Kimley-Horn professionals and their specific roles for this project are outlined below. An organization chart and resumes for our staff are included at the end of this section.

Brenda Westhorp, P.E. – Project Manager

Prior to joining Kimley-Horn and Associates, **Brenda J. Westhorp, P.E.** was the president of **Westhorp & Associates, Inc.** a company she founded in 1997 as a 100-percent woman-owned business. Brenda has close to three decades of experience in managing and designing environmental engineering projects in Florida, California, and Hawaii. Her expertise includes, but is not limited to site investigations, planning, permitting, design, and construction of a wide variety of projects. She is currently the Principal-in-Charge for a $4.9 million design and construction services contract for the South Dade Landfill in Miami-Dade County. This project included closure construction for 50 acres of this facility. This portion alone, was a $9 million dollar project that included a landfill gas collection system, stormwater drainage, and a multi-layer cover system. Brenda is a hands-on project manager with a passion for client service. She holds a Master of Science degree in Environmental Engineering from the University of Central Florida and is a Registered Professional Engineer in Florida, California, and Texas.

Juan Jimenez, P.E. – Technical Advisory Group; Land Development

Juan has more than 19 years of management experience for projects involving water distribution, wastewater collection and transmission, paving, stormwater management, general civil engineering, and land development. He offers experience in the preparation of project proposals, permit documents, bid/contract documents and specifications, work schedules, and construction cost

estimates, as well as quality control review of projects with constant client interaction through all phases. He served as project engineer on the Midtown Miami project, which included the design of 13,500 linear feet of water distribution mains and 6,400 linear feet of 8- to 24-inch sanitary sewer mains to serve this major 56-acre urban development in the center of Midtown Miami. The project involved roadway and complete infrastructure design, as well as coordination with multiple developments, clients, and design professionals. The project is under the jurisdiction of the City of Miami, Miami-Dade County, FDOT, Miami-Dade DERM, FDEP, and the Miami-Dade Water and Sewer Department. The project required constant coordination with these agencies. Juan earned his Bachelor of Science degree in Civil Engineering at Florida International University and is a Registered Professional Engineer in Florida.

Richard Tenn – Technical Advisory Group; Land Development

Richard has more than 11 years of experience in civil engineering planning, design, permitting, and construction management/ inspection services. He is experienced with all phases of design and drafting, including roadway, drainage, water distribution/ transmission, and wastewater collection and transmission facilities. He is also proficient in AutoCAD, Microstation, Cascade, and AdICPR software programs. Richard earned his Bachelor of Science degree in Civil Engineering at Florida International University.

David Goldman, P.G. – Technical Advisory Group; Environmental; Brownfield Services and Funding

David will serve as a member of the technical advisory group, as well as provide environmental and Brownfields services. David works out of Kimley-Horn's Jacksonville office and has managed numerous similar Brownfields programs with outstanding success. He has successfully written, implemented, and managed EPA federal Brownfield assessment and cleanup grants. He brings a hand-on perspective to the grant process in that he is a registered professional that not only prepares the grant, but is also in the field doing the work and conducting public outreach meetings. David's Brownfield achievements include over $6,000,000 in Brownfield tax credits and grants for his clients in the state of Florida. His achievements are characterized by the tight management of all aspects of the project with full coordination and communication of all issues. David has more than 25 years of experience conducting and managing assessment and remediation projects involving Brownfield sites, hazardous waste, industrial waste, and petroleum contamination. He has extensive experience and success with the integration of site assessment and remediation with land planning, civil design, permitting, and construction. He has personally brought a total of 15 Florida Brownfields projects to full construction and redevelopment completion under state and federal programs. His professional and personal dedication extends to his participation in the Florida Brownfields Association's Legislative and Technical Committees. David earned both his Bachelor and Master of Science degrees in Geology at the University of Florida and is on their Geology Advisory Board. He joined Kimley-Horn in 1999 and is a Professional Geologist in Florida, Georgia, and North Carolina.

Jason Sheasley, P.G. – Environmental Services

Jason has more than 22 years of experience involving water resources, hydrogeology, and geology. His experience includes due diligence, Phase I and Phase II environmental site assessment reporting, the development of Brownfield sites and environmentally-impacted properties, and environmental compliance under RCRA, CERCLA, and state hazardous waste programs. Jason has directed and managed projects relating to the characterization and remediation of soil and groundwater contamination, provided technical oversight for the development of regional groundwater management policies, and is familiar with the use and application of geographic information systems (GIS) (ArcView, ArcInfo, ArcSDE). He has managed geologic and hydrogeologic investigations for the characterization of subsurface contamination at commercial and industrial sites nationwide. Jason earned his Bachelor of Science degree in Geology at Wilkes University. He is a Professional Geologist in Florida, Pennsylvania, and North Carolina, as well as a Certified Hazardous Materials Manager.

Leah Zihlman, CHMM – Environmental Services

Leah has five years of experience providing a variety of environmental support services, including hydrogeologic investigations, environmental site assessments, and soil and ground water remediation projects involving petroleum contamination and hazardous waste. She has experience conducting Phase I and II Environmental Assessments in accordance with ASTM Standard Practices E1527-13 and E1903-97 and is proficient performing risk assessments to determine potential for contaminants in soil and groundwater that could affect public health and the environment including two-dimensional fate and transport modeling (BIOSCREEN) and risk-based action level calculations. Leah earned her Bachelor of Science degree in Environment and Natural Resources at Ohio State University. She is a Certified Hazardous Materials Manager.

Jorge Fernandez, P.E. – Land Development

Jorge has more than 11 years of diverse civil engineering experience. His areas of expertise include land development, stormwater management, water and sewer systems, urban planning, permit expediting, utility system design, and profiling. He also has experience serving a diverse group of clients, including counties, municipalities, government agencies, and private developers. He is proficient in AutoCAD and design analysis software programs. Jorge earned his Bachelor of Science degree in Civil Engineering at Florida International University and is a Registered Professional Engineer in Florida.

Bill Waddill, RLA, AICP – Planning and Public Outreach

Bill has 27 years of project experience ranging from major residential, commercial, and mixed-use land development projects to municipal urban design, parks, and roadway corridors. His principal areas of expertise include land development consulting and project management, site and land use planning, landscape architecture, and streetscape and urban design. In addition, Bill has extensive public involvement experience and has facilitated diverse groups of participants in consensus-building workshops throughout Florida. Bill's land development experience includes master planning and entitlements for a 15,000-acre, "village-style" development for the City of North Port; a 1,500-acre, mixed-use redevelopment around the Orange County Convention Center; and multiple streetscape projects throughout the state. Bill has also been involved in a wide range of urban redevelopment projects, including Royal Palm Pointe in Vero Beach, North Shore Area Roadway Improvements in Miami Beach, and the Downtown Community Redevelopment Agency Vision Plan for Punta Gorda. In Miami, Bill was part of a team that provided streetscape design, urban design, landscape architecture, roadway engineering, and transportation-related services for the design of approximately 3 miles of urban streetscape improvements in the North Shore area of Miami Beach. Bill designed 3 miles of landscape and softscape improvements that required extensive coordination with FDOT to ensure that the design solutions met both the functional needs of the Department and the aesthetic needs of the City of Miami Beach and property owners. Bill earned his Bachelor of Science degree in Landscape Architecture from Texas A&M University and is a Registered Landscape Architect in Florida, California, Nevada, and Texas.

Subconsultant Partners

Kimley-Horn has a long history of teaming with highly qualified subconsultants to provide our clients with the expertise they need. We only choose team members who have proven records and skills, and who we know will work well with us to exceed your expectations. For this assignment, we have teamed with four specialty subconsultants. We have successfully worked with all of them in the past and are confident in the high quality of service they routinely provide.

Gibbs Land Surveyors – Site Surveying

Gibbs Land Surveyors is a local Hollywood firm started 1988. The have been the consulting surveyors for the City of Hollywood and the City of Hallandale Beach for the past 20 years. They also have extensive experience performing a variety of surveys for other cities in Broward County and Dade County. Their key personnel have over 30 years of experience in performing all aspects of land surveying services. These years of surveying experience has been primarily in the performance of boundary surveys, as-built surveys, construction surveys, control surveys, topographic surveys, and hydrographic surveys. Their experience in surveying numerous projects, over various applications and conditions, has given them the familiarity needed to adapt to special field and CAD drafting standards often required by agencies and municipalities. Their firm adheres strongly to the Florida Statutes and Administrative Rules for surveying, as well as standards required by the various cities. They utilize state-of-the-art surveying equipment, including electronic total stations, digital levels, Real-Time Kinematic GPS equipment, and electronic data collection. They also provide in-house computing and AutoCadd drafting.

Stephen Seeley, PSM

Stephen has more than 35 years of experience in the field of land surveying, including boundary and topographic surveying, subdivision construction layout, survey project management, field and office team management, and special survey projects coordination for FDOT and SFWMD contracts. He has acquired most of his experience in Broward County and has over 20 years of experience in the Hollywood area. Having a command of current technologies, he is well qualified in the use of survey-grade GPS and Digital Data Collection.

Stephen Gibbs, PSM

Stephen has more than 35 years of experience in the field of land surveying, including boundary and topographic surveying, subdivision construction layout, survey project management, and field and office team management. He has acquired most of his experience in Broward County and has 35 years experience in the Hollywood area. Having a command of current technologies, he is well qualified in the use of survey-grade GPS, Digital Data Collection, and Autocad Automated Drafting.

Mark Berry, PSM

Mark has more than 34 years of professional surveying experience. A third generation surveyor, Mark has the unique distinction of being in a family that has been at the forefront of land development in the City of Hollywood since the 1930s. Obviously, his local historical knowledge is unsurpassed. For the past 20 years, he has applied his expertise in underground utility installations and is the Consulting Surveyor for the Broward County office of AT&T.

Geosyntec Consultants – Geotechnical

Founded and headquartered in South Florida in 1983, Geosyntec has over thirty years of professional consulting expertise in the areas of landfill closure plans and redevelopment. Geosyntec is an innovative leader in landfill redevelopment over waste fills for commercial sites, big-box retail sites, wind turbine farms, solar energy, sites to support cellular service, parks, recreational areas, walking paths, meeting areas, sporting facilities, and nature preserves. Geosyntec's leading national practitioners have proven, practical experience in developing solutions for Brownfields redevelopment sites, bringing the best available technologies in risk identification and mitigation. Geosyntec's redevelopment practice creates site-specific solutions using our expertise in risk assessment, in situ groundwater remediation, soil vapor intrusion assessment and mitigation, geotechnical and geoenvironmental foundation engineering, solid waste management, and environmental management. They work with municipalities, local agencies, federal partners, developers, financiers, insurers, and other stakeholders to identify and balance the highest potential economic, ecological, and social values of environmentally impaired properties. Geosyntec has provided specialized redevelopment services to sites ranging from less than one acre to 4000 acres.

Geosyntec is recognized for leadership in innovative landfill engineering and design, providing services such as MSE Wall technology for vertical or lateral expansion, managing leachate through recirculation or constructed wetlands for passive treatment, use of alternative cover systems (overliner systems, ET covers, phyto covers, exposed geomembrane covers), enhancing degradation through bioreactor retrofit, and operating procedures that maximize compaction and minimize soils use. Geosyntec has also provided landfill gas to energy services at over 70 landfills throughout the U.S., including comprehensive feasibility assessments and conversion system implementation. Geosyntec has maintained a dedicated Construction and Field Services practice staffed by trained construction managers, field technicians, and engineers, to complement our solid waste permitting and design team and support our clients' needs for safe quality construction of solid waste facilities and infrastructure.

Daniel Schauer, P.G.

For the past 26 years Daniel has worked closely with numerous private and municipal clients within the state of Florida to develop cost effective strategies for all phases of solid waste management facility development and founded strong relationships with the leadership of the FDEP including the Southeast District. He has utilized his experience to manage a wide array of multidisciplinary municipal solid waste management projects including Class I, Class III and C&D landfills, incinerator ash landfills, bioreactor landfills, low level radioactive waste landfills and a variety of sludge, sediment and liquid impoundments. He has managed large scale municipal landfill engineering contracts and is highly regarded throughout the industry for his expertise in the design, permitting and construction of solid waste management facilities as well as his extensive background in the redevelopment and beneficial reuse of former waste disposal facilities. Daniel has been responsible for the coordination of geologic and hydrogeologic site investigations, geotechnical investigations, structural foundation design, and construction materials testing.

Juan Quiroz, Ph.D., P.E.

Dr. Quiroz has over 15 years of experience in civil engineering with expertise in the area of geotechnical and geoenvironmental engineering. His specialties include waste containment system design, landfill engineering, waste slope stability, design of MSE

(mechanically stabilized earth) berms related to landfill expansions, design of dredged material containment areas (DMCAs), closure system design of landfills, alternative leachate treatment and containment systems, designing with geosynthetics, transfer station design and permitting, gas mitigation systems for building protection, and construction on soft ground. As the lead engineer for numerous geotechnical site investigations, geophysical investigations, and solid waste facility projects, Juan has lead major projects as well as design team tasks and directly interacted with FDEP representatives at both District and State levels.

Kwasi Badu-Tweneboah, Ph.D., P.E.

Dr. Badu-Tweneboah, P.E. has more than 27 years of experience with solid waste engineering for public and private-sector clients. He specializes in MSW facility design and permitting, geotechnical investigations, containment system design, resident engineering, and construction management/quality assurance. He also has extensive experience in the planning and implementation of construction quality assurance/quality control for the installation of geosynthetic and soil lining systems for landfills and other waste containment facilities. Dr. Badu-Tweneboah has been involved in the design, permitting, and construction of over 30 solid waste management and waste containment system facilities in 15 states. Dr. Badu-Tweneboah has published more than 30 papers on landfill design and solid waste issues and served as the Program Manager and Engineer-of-Record for the permitting, design, and construction of more than ten solid waste landfills in Florida. FDEP invited Dr. Badu-Tweneboah to serve on the agency's Task Force for rewriting solid waste rules and regulations. He has also served on the Technical Advisory Group for a post-closure care research project sponsored by Florida's Hinckley Center for Solid & Hazardous Waste Management.

Pace Analytical Labs – Testing Lab

Pace Analytical is a full service environmental monitoring and analytical testing firm. They provide organic, inorganic, radiochemistry, and specialty analytical capabilities that include the analysis of trace level contaminants in air, water, soil, waste, and biota. Their specialty services include aquatic toxicity, asbestos, bioassay, dioxin/furan, drinking water, low level mercury, vapor intrusion analysis, stack emission testing, ambient air monitoring, groundwater, and wastewater monitoring. Their list of certifications and accreditations provides nationwide coverage to meet environmental compliance requirements and/or to support engineering investigative studies. Their state-of-the-art facilities and equipment allow them to streamline sample flow through their labs. The result is increased productivity coupled with high quality services that efficiently process projects per your specific requirements.

Pace Analytical operates one of the most diversified commercial analytical laboratory networks in the nation. They are one of very few firms that can conduct onsite sampling/monitoring and provide a complete array of laboratory testing services. They take pride in meeting the needs of their customers, both on a national and local level, with exceptional services from experienced technical sales and responsive project management support to legally defensible data that is managed through our convenient online reporting system.

Christina Raschke

Christina has been in the Environmental Laboratory field since April of 2006 and has 2 years of hands-on experience including supervisory position in the laboratory and 3 years of client services/project management. She is responsible for the coordination and tracking of tasks, schedules, and deliverables for projects related to environmental analysis, compliance, permitting, and remediation.

Terrence Anderson

As client services manager, Terrence's main role is to serve as liaison between laboratory personnel and clients to ensure effective project management, ensuring the laboratory is meeting customers' turnaround time, and their project specifications, including reporting limits and QA/AC requirements. Terrence's past experience includes working as a pollution control inspector for Miami Dade County Department of Environmental Resources Management (DERM). At the County he inspected permitted facilities to ensure they are operating within their permit requirements, review permit applications, identify sources of environmental pollution, analyze and interpret annual emission reports, conduct site inspections, and initiate enforcement actions where there are permit violations.

Jeff Baylor

Jeff has been a project manager for Pace Labs 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. 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. In 2002, he led the effort for Pace to become EPA certified for testing for Aeromonas bacteria in drinking water under the Unregulated Contaminant Monitoring Rule (UCMR) program.

Bob Dempsey

Bob has over 20 years of environmental analytical laboratory experience. He is responsible for the direction and coordination of the daily activities for more than 50 staff scientists, administrative personnel, and service technicians at the company's Florida operations. He is responsible for maintaining project management oversight and direction in conjunction with corporate sales directives and goals, and he provides guidance and direction to the laboratory's Quality Assurance staff in conjunction with corporate goals, EPA guidelines, NELAC guidelines, and various other state and federal guidelines.

Earth Tech Drilling – Environmental Drilling

Earth Tech Drilling is a Florida small business corporation founded in April 2002. Their two senior managers have over 30 years of combined hands-on experience. Earth Tech provides high quality, cost effective environmental and geotechnical drilling services for the installation of monitoring wells, remediation wells (Sparge and Vapor), injection wells, recovery wells and SPT soil borings to private clients for State and Federal agencies. Earth Tech maintains in-house Two Mobile® B-57's, a B-59, 2007 B-37 Track Rig/Auger/Direct Push Rig, Cat® 248 Skid Steer with Low Clearance Drill Rig and two GeoProbe® Direct Push Rigs (track and truck mounted). Our state of the art equipment is purchased new and maintained to minimize lost time for repair. A well-maintained inventory of equipment and supplies insures that Earth Tech can do the job that is required with the proper tools in a minimum amount of time.

Earth Tech specializes in environmental drilling projects. All of their personnel understand the importance of decontamination procedures and have performed them under strict oversight of FDEP and the EPA. Earth Tech takes the time to discuss the particular safety concerns and conditions of each site and is always ready to modify a procedure to fit their client's specifications. Earth Tech personnel have experience drilling on a wide variety of contaminated sites ranging from Superfund sites, RCRA to Petroleum sites. They also perform geotechnical services such as SPT Soil borings, Auger borings, and infiltration/perc tests.

Paul Lemenze

Paul has more than 25 years of experience in the environmental/geotechnical drilling field, as well as multiple types of drilling projects, services, field supervision, and quality assurance. His accomplishments include many high profile projects throughout the state of Florida. He has advanced expertise in solving multifaceted complexities, ranging from difficult access logistics to environmental sensitivities, and problematic drilling risks. As a result, he is sought after by many high profile clients. In addition, he is responsible for monitoring equipment maintenance, health/safety management and crew supervision. State of Florida Water Well Contractor's License #11022. API certified, LPS training, OSHA 40 Hr/8 Hr Training. Class B COL.

Michael Orlando

Michael founded Earth Tech Drilling in 2002 and has 13 years of experience in the environmental/geotechnical drilling field, as well as multiple types of drilling projects, services, field supervision, and quality assurance. He brings an extensive record of successes identifying process, training, and technology improvements that deliver measurable results in cost control, environmental protection, risk mitigation, and well protection. His accomplishments include many high profile projects throughout the state of Florida. He also is responsible for equipment maintenance, safety management, and crew supervision. State of Florida Water Well Contractor's License #11225. API certified, LPS training, OSHA 40 Hr/8 Hr Training. Class B COL.

Jason Oliver

Jason has more than 8 years of experience in the environmental drilling field. He also has several years of related construction industry experience. He is experienced in excavation of soil and preparation of tooling for the drilling process. API certified, LPS training, OSHA 40 W8 Hr Training. Class B COL.

Organizational Chart

As indicated by the organization chart on the following page, Kimley-Horn understands the value of assembling a strong and diverse project team and has strategically selected a team of experts based on the projected needs of this contract. Our team members are available immediately to begin working for the City of Hollywood, and our project manager, **Brenda Westhorp, P.E.**, will be the primary liaison for the coordination of all project efforts.

Team Resumes

Resumes for all Kimley-Horn personnel, as well as the key members of our subconsultant partners, are provided following the organization chart.

HOLLYWOOD
Like Nowhere Else!

Project Manager
Brenda Westhorp, P.E.

Technical Advisory Group
Juan Jimenez, P.E.
Richard Tenn
David Goldman, P.G.

Environmental Services
Brenda Westhorp, P.E.
David Goldman, P.G.
Jason Sheasley, P.G.
Leah Zihlman, CHMM

Brownfield Services and Funding
David Goldman, P.G.

Land Development
Juan Jimenez, P.E.
Jorge Fernandez, P.E.
Richard Tenn

Planning and Public Outreach
Bill Waddill, RLA, AICP

Site Surveying
Stephen Seeley, PSM
Stephen Gibbs, PSM
Mark Berry, PSM
Gibbs Land Surveyors, Inc.

Geotechnical
Daniel Schauer, P.G.
Juan Quiroz, Ph.D., P.E.
Kwasi Badu-Tweneboah, P.E.
Geosyntec Consultants

Testing Lab
Christina Raschke
Terrence Anderson
Jeff Baylor
Bob Dempsey
Pace Analytical Labs

Environmental Drilling
Paul Lemenze
Michael Orlando
Jason Oliver
Earth Tech Drilling

BRENDA WESTHORP, P.E.

Project Manager

Experience prior to joining Kimley-Horn:

South Dade Landfill Design, Miami-Dade Department of Solid Waste, Miami-Dade County, FL — Principal-in-Charge of a $4.9-million design services contract for the South Dade Landfill in Miami-Dade County. This multi-year contract will provide planning, design, permitting, and construction services for a new cell and closure of an existing one. Total construction costs for both projects are in excess of $20 million and involve multiple disciplines.

Landfill and Solid Waste Engineering Contract, Miami-Dade Department of Solid Waste, Miami-Dade County, FL— Principal-in-Charge of a $1.3-million landfill and solid waste engineering contract. Responsible for the preparation of request for bid documents for design/build projects in excess of $2-million, design of transfer station improvements, and review of financial documentation in support of grant funding for landfill closure. Project manager for the closure design and permitting of Cells 17 and 18 ash monofill at the County's 3,000-ton per day resource recovery facility.

South Dade Landfill (SDLF) Cell 6 Feasibility Study, Miami-Dade County, FL — Principal-in-Charge for this feasibility study for the Miami-Dade County Department of Solid Waste Management. The project objective was to identify options for the lateral expansion of the South Dade Landfill. This would provide additional capacity in the northern portion of the SDLF. The project team evaluated various landfill configurations on the basis of cost and other factors. The recommended alternative will provide the most cost-effective increase in capacity for the SDLF.

North Dade Landfill West Cell Closure Construction, Miami-Dade County, FL — As project engineer, was the resident engineer during the construction of this $4.5 million project which included a compacted limerock cap, new landfill gas wells, and stormwater system improvements for a 70-acre area of the North Dade Landfill in Miami-Dade County. Provided support services to the Miami-Dade County Department of Solid Waste Management including construction inspection, review of submittals, attendance at weekly meetings, and certification of project completion.

N.W. 58th Street Landfill Closure, Miami-Dade County, FL — Lead Design Engineer. This project involved the closure of a one-square-mile EPA Superfund site for Metropolitan Miami-Dade County. Participated in all aspects of the closure process, including a data acquisition program that was designed to define the water quality leaving the site. Developed various closure alternatives for groundwater modeling and utilized the modeling results to screen the alternatives; estimated probable cost of alternatives and prepared a closures alternatives evaluation report and technical memorandums for final design of closure for the site including landfill gas control, cover alternatives, leachate mass balance analysis, and project summary narrative. Also prepared final construction documents, including plans and specifications for site grading and placement of a synthetic cover system on a portion of the site.

Security Estates, Miami, FL — As project manager, provided permitting assistance during the planning construction of this privately-owned construction and demolition debris landfill. Served as Principal-in-Charge for the closure design and permitting for this facility.

Construction and Demolition Debris Landfill, Miami-Dade County, FL — Project Manager responsible for permitting two C&D disposal facilities located in southern Miami-Dade County.

Special Qualifications

- Has 30 years of experience in managing and designing environmental engineering projects in Florida, California, and Hawaii
- Extensive experience in solid waste management, environmental assessments, and stormwater management
- Expertise includes site investigations, planning, permitting, design and construction of a wide variety of projects

Professional Credentials

Master, Environmental Engineering, University of Central Florida

Professional Engineer in Florida, California, and Texas

Professional Organizations

American Society of Civil Engineers (ASCE)

Florida Engineering Society

National Society of Professional Engineers (NSPE)

Solid Waste Association of North America (SWANA)

Work included the preparation of documents for submittal to both the Florida Department of Environmental Protection (FDEP) and Miami-Dade County Department of Environmental Resources Management. Responded to regulatory compliance issues related to new FDEP regulations for C&D disposal sites. Documents prepared included an operations plan, training plan, groundwater monitoring plan, closure and post-closure plan, and closure cost estimates.

North Dade Landfill Vertical Expansion and Closure, Miami-Dade County, FL — Project Engineer. Worked on the design, permitting, and construction for the closure of a 100-acre landfill for Miami-Dade County. The project included the development of a groundwater monitoring plan, preparation of a closure permit application for Phase I of the landfill site, and preparation of a construction permit application for Phase II. This innovative design involved the construction of a new landfill over a previously filled area. Her responsibilities included calculation of anticipated leachate quantities, detailed design of leachate and stormwater management systems, and preparation of plans and specifications for construction.

Solid Waste Master Plan, Miami-Dade Department of Solid Waste, Miami-Dade County, FL — Project Manager. Served as a subconsultant on this multi-year master planning project. The team will assess the conditions of the largest government operated waste management collection and disposal provider in the Southeastern United States. Handling nearly 2-million tons of municipal solid waste per year, the Department of Solid Waste Management (DSWM) provides waste collection and recycling services to more than 300,000 households in Miami-Dade County. Maintaining a system that serves the largest county in Florida with a rapidly growing population, aging facilities and limited disposal capacity requires strategic planning for today through the next 50 years. Therefore, the DSWM has launched a process to prepare long-term solid waste management solutions through development of a Solid Waste Master Plan. The Master Plan will identify new activities, programs, facilities and technologies to provide sustainable solid waste services that will ensure public health and environmental protection for Miami-Dade County residents for the next 50 years.

South Dade County C&D Debris Landfill Capacity Analysis, Miami-Dade County, FL — As project manager, prepared a report for a private client to quantify the amount of disposal capacity available in construction and demolition debris landfills in Miami-Dade County. Services included presentations of this report as an expert witness to both the Zoning Appeals Board and the Board of County Commissioners.

Miami Dade Aviation Department, Miami-Dade County, FL — Principal-in-Charge of a $1 million miscellaneous environmental and civil engineering services contract with the Miami-Dade Aviation Department in Florida. Responsible for the execution of Phase I and Phase II environmental assessments, miscellaneous baseline audits, and environmental oversight during construction of a $4.8 billion capital improvement program. Services provided under this contract included the characterization of tens of thousands of cubic yards of contaminated soils for disposal or reuse.

Ft. Lauderdale-Hollywood International Airport: Building a Green Airport, Fort Lauderdale, FL — Served as project manager for this study to broadly define the types and estimate the volume of solid waste generated at the Fort Lauderdale-Hollywood International Airport (FLL). Activities included reviewing existing information and current recycling practices, conducted discrete sampling events, and calculated waste volumes by type in order to quantify FLL's current environmental footprint. Recommendations were made for changes to operating practices and waste management technologies that could cost effectively reduce the waste stream from the airport.

Methane Gas Management System at a BJ's Wholesale Club Distribution Center, Hialeah Gardens, FL — This facility was built on the site of a former solid waste landfill. Operations and maintenance of the active methane gas management system is monitored on a quarterly basis with semiannual methane gas sampling. A summary report is then submitted to RER.

Virginia Key Landfill (VKLF) Site Assessment and Closure Design, Virginia Key, FL — Landfill Closure Engineer. This enhanced landfill closure project will ultimately require the following services: assessment, remedial design, permitting, and construction management services. The assessment included the digging of test trenches for waste characterization and delineation, the installation and sampling of a number of monitoring cluster wells, and oversight for the production of a new boundary and topographic survey. The closure design will consist of the preparation of a waste relocation plan, covering all waste-covered areas with two feet of clean material, design of a stormwater management system, and preparation of an engineer's cost estimate for construction of the project. Because of the site's outstanding location on a barrier island, the City of Miami plans to use this 124 acre parcel for a park. The work on this project is being performed in close coordination with the City of Miami, Miami-Dade Public Works and Waste Management Department (PWWM), and Miami-Dade Department of Regulatory and Economic Resources (RER).

JUAN JIMENEZ, P.E.

Technical Advisory Group; Land Development

Midtown Miami Brownfield Redevelopment, Miami, FL — Project engineer. Located in the heart of Miami, this 56-acre brownfield site is the largest redevelopment project in the City of Miami. Kimley-Horn worked with the architectural design team to develop a truly urban mixed-use master plan that can support 1.2 million square feet of commercial development; 4,500 residential units; 15,000 square feet of office space; and parks. The design includes nearly 12,000 linear feet of urban streetscapes, a linear park system, an urban plaza, and a series of vest pocket parks. Infrastructure components included FPL, telecommunications, storm drainage, traffic signals, roadways, 12,500 linear feet of new water mains, and 6,500+/- linear feet of new sanitary sewer mains. The sanitary sewer required a challenging interconnection with an existing 72-inch live interceptor on Biscayne Boulevard. Tracks and infrastructure were also laid for a future street car system. Permitting involved multiple jurisdictions, including the City of Miami, Miami-Dade County Public Works, FDOT, Miami-Dade DERM, FDEP, and the Miami-Dade Water and Sewer Department. During construction, served as District Engineer for the Midtown Miami Community Development District (CDD), which was responsible for constructing all of the public improvements (roads, street lighting, traffic signals, utilities, drainage, landscaping and site amenities) for both the residential and retail portions of the overall redevelopment project; also coordinated the efforts of multiple developers, design professionals, and contractors.

Resorts World Miami (former Miami Herald site), Miami, FL — Serving as engineer. Kimley-Horn is providing site/civil engineering, environmental, and ongoing traffic engineering services for the 14-acre bayfront site that previously housed the Miami Herald newspaper at 1 Herald Plaza in Miami. The proposed project includes four new hotels with more than 5,000 rooms and two residential towers featuring up to 1,000 units; a luxury retail galleria; a 3.6-acre rooftop lagoon and natural sand beach; more than 50 restaurants, lounges, bars, and nightclubs; a high-tech multimedia entertainment area showcasing the music and culture of Florida and South America; and 700,000 square feet of convention and meeting space. The resort will help develop the three-mile BayWalk, which highlights a 150-acre leisure and entertainment area in downtown Miami. Team tasks include due diligence, parking studies, underground utility design, preparation of a Special Area Plan (SAP) traffic study consistent with City of Miami 21 Zoning Code, environmental site assessment and potential remediation planning, including contaminant delineation, water quality evaluation, and quarterly groundwater monitoring.

Flamingo South Beach (aka Grand Flamingo), Miami Beach, FL — Served as project engineer. Kimley-Horn was hired to create a new identity for the conversion of three condominium towers on South Beach through the redesign of the common spaces. This project was a combination of working with existing conditions while infusing the site with new and fresh design concepts and characteristics that set it apart from other condos on Miami Beach. Kimley-Horn was involved with the entire design process from concept to permitting and construction administration. This project was highly specialized and extremely fast paced. Our team not only served as the landscape architect, but also provided civil engineering, structural engineering, and traffic studies, as well as environmental studies and engineering for the conversion.

Brickell City Centre, Miami, FL — Serving as QA/QC reviewer and involved with team coordination efforts for this project. The proposed development includes 830 residential units, a 290-room hotel, and 906,463 square feet of office of which 95,117 square feet will serve as

Special Qualifications

- Has 17 years of diverse engineering and project management experience
- Areas of expertise include water supply and distribution, wastewater collection and transmission, stormwater management, roadway, general civil engineering, and land development
- Experienced in the preparation of permit documents, bid/contract documents and specifications, work schedules, and opinions of construction costs
- Experienced in the use of AutoCAD software, WaterCAD hydraulic modeling software, Microsoft Project scheduling software, and flood routing software published by the Florida Department of Transportation and the South Florida Water Management District

Professional Credentials

Bachelor of Science, Civil Engineering, Florida International University

Registered Professional Engineer in Florida

Professional Organizations

American Society of Civil Engineers (ASCE)

Florida Engineering Society

National Society of Professional Engineers (NSPE)

medical office. The development will also include 535,300 square feet of retail of which 142,000 square feet will serve as entertainment uses such as a nightclub, cinema, and a bowling alley. Kimley-Horn is providing civil engineering, traffic engineering, roadway design, transit engineering, and construction phase services for the site.

Faena Miami Beach, Miami Beach, FL — Serving as QA/QC reviewer and involved with team coordination efforts for this project, as well as the Saxony West development north of the Saxony Hotel. Kimley-Horn is providing civil and traffic engineering services for this mixed-use project, which involves renovations and improvements to the existing historic hotel originally completed in 1948. As part of the new Saxony Hotel and residences, the project includes construction of a new 19-story condominium tower (a 62,500-square-foot building with 67 multi-family units), an underground parking garage, and two separate amenity decks to serve the hotel and condo towers. Our services include due diligence; schematic design; landscape architecture; permitting through the City of Miami Beach WASD and DERM, FDOT, FDEP, and SFWMD; preparation of contract documents; and construction phase assistance.

Mowry Drive Roadway Improvements, Homestead, FL — Served as project engineer for the new construction and widening of Mowry Drive (SW 320th Street) from SW 157th Avenue to SW 152nd Avenue. The existing roadway consisted of a one-lane paved road and was proposed to be converted to a four-lane divided urban section with bike lanes on both sides. The project included design and preparation of roadway, drainage, signing and marking, lighting, water main extension, landscaping and irrigation plans. As part of the project, environmental and drainage permits were obtained from SFWMD, RER and USACE. The project also included preparation of bid documents and construction supervision.

1111 Lincoln Road Parking Garage, Miami Beach, FL — Served as project engineer for this mixed-use project composed of renovation and improvements to an existing building, which includes retail space, six levels of parking, residential rooftop units, an open-air restaurant on the roof, renovation and improvements to the existing building, and the addition of a new building. The new building includes a ground floor bank, private banking quarters, and four residential units. Kimley-Horn provided civil and traffic engineering services including due diligence, contract documents, permitting, and construction phase assistance.

Bayview Market, Miami, FL — Project engineer on the Kimley-Horn team responsible for preparing site-civil construction documents for right-of-way vacations, utility relocations, utility upgrades and storm water management improvements necessary to support this urban redevelopment project. The project consists of the vertical stacking of several historically "big box" retail stores on multiple levels of the building, while accommodating sufficient customer access and parking, as well as delivery truck access. Kimley-Horn also prepared construction drawings for the reconstruction and widening of NE 17th Terrace, NE 2nd Avenue, NE Miami Place and the milling and resurfacing of NE 17th Street and North Miami Avenue.

Grove Village, Miami, FL — Serving as project engineer for this six-block, mixed-use development in Coconut Grove. This project is composed of residential apartments, retail and office space, and amenities such as plazas and courtyards. Kimley-Horn is providing civil engineering, traffic engineering, and landscape architecture services, including due diligence, schematic design, contract documents, permitting, and construction phase assistance.

Key West Resort and Conference Center, Key West, FL — Serving as project engineer for this 17-acre mixed-use development located at the entrance to Key West. In keeping with the existing Key West architectural vernacular and landscape amenities, the scale and aesthetics of this resort will comfortably coexist with the historical architectural charm for which Key West is known.

Miami Jewelry District, Miami, FL — Served as project engineer. For the past decade, downtown Miami has been undergoing an economic revitalization which includes the introduction of several high-rise mixed-use developments, as well as public infrastructure projects, including the renovation of Flagler Street, Miami's main street; a new downtown master plan; and the soon to come light rail line, which will run through the Jewelry District. The Jewelry District master plan and streetscape improvements are the next phase in the continuing improvement of downtown. Kimley-Horn developed an implementation master plan for the right-of-way elements within the Jewelry District. In addition, we produced construction documents for the streetscapes based on the implementation master plan.

RICHARD TENN

Technical Advisory Group; Land Development

TD Bank (formerly Commerce Bank), Miami-Dade, Broward, and Palm Beach Counties, FL — Task manager for the Kimley-Horn team that has provided a range of transportation planning, traffic engineering, environmental design, landscape design, and site civil services for this retail bank program in Florida. The firm has investigated more than 300 South Florida locations, and designed and permitted more than 60 sites. Many locations were developed on sites with contamination from previous gas station use.

NPDES Stormwater Permit Dry Weather Field Screening, Miami, FL — Responsible for field testing of environmental and physical parameters such as total dissolved solids, temperature, pH. Performed colorimetric analyses using CHEMetrics field test kits to measure chlorine, copper, phenols, and detergents. Conducted flow rate estimation and documented the presence of observed odors, such as chlorine, gasoline, rotten eggs, and sewage. Collected, stored, and transported additional water samples in accordance with established industry standards for the laboratory analyses.

North Miami Continuing Professional A&E Services, North Miami, FL — The Kimley-Horn team was selected in 2012 to provide professional services on a variety of municipal projects for the City of North Miami. The contract includes engineering services for civil/environmental, planning and urban design, traffic engineering, transportation consulting, and water resources/ water supply. Our services to-date include the design of forcemain transmission piping. As project engineer, responsibilities include site visits, data collection, permitting, layout design, and cost estimating.

Faena Miami Beach, Miami Beach, FL — Serving as project engineer for this mixed-use project, which involves renovations and improvements to the existing historic hotel building, the construction of a brand new condominium tower, an underground parking garage, and two separate amenity decks to serve the hotel and condominium towers. Kimley-Horn is providing civil engineering services, including due diligence, contract documents, permitting (City of Miami Beach WASD and DERM, FDOT, FDEP, SFWMD), and construction phase assistance.

Cheddar's American Cafe, Wellington, FL — Serving as project engineer and assisting with site planning and permitting for a restaurant site in Palm Beach County. The scope of work included site plan approval and paving, grading and drainage design, right and left turn lane design and permitting through Florida Department of Transportation (FDOT).

Target Store #1480, Plantation, FL — Serving as project engineer and providing evaluation and plan coordination services on this retail site in Plantation. Kimley-Horn is part of Target's national pavement management program team. Services include conducting a pavement condition survey, analysis, and recommendations for repairs. During the construction phase, Kimley-Horn represents Target as the owner's site representative. This work includes coordination between the contractors and Target store personnel, tracking quantities, quality assurance, and project closeout.

Miramar Centre Business Park, Building A, Miramar, FL — Serving as project engineer for the Kimley-Horn team that is providing civil engineering design services for this industrial site. Responsibilities include site inspections, permitting, and construction phase services.

Special Qualifications

- Has 10 years of experience in civil engineering planning, design, permitting, and construction management/ inspection services
- Experienced in all phases of design and drafting including roadway, drainage, water distribution/transmission, and wastewater collection and transmission facilities
- Proficient in AutoCAD, Microstation, Cascade, and AdICPR software programs

Professional Credentials

Bachelor of Science, Civil Engineering, Florida International University

Professional Organizations

American Society of Civil Engineers (ASCE)

The Westwinds of Boca, Boca Raton, FL — Serving as engineer for the Kimley-Horn team providing engineering services for this retail project, including due diligence, civil and environmental permitting, and master planning. The Westwinds shopping plaza contains approximately 177,000 square feet and is located on 3.95 acres at the southeast corner of Glades Road and SR 7 (US 441).

Vizcaya Park (formerly known as Bluegrass Lakes Park), Miramar, FL — Served as project engineer. This 20-acre park in Miramar provides several active recreational opportunities, including a soccer/multiuse field, basketball courts, and a 7,600-square-foot community center. The park's passive features include open picnic areas, a playground, and a jogging/fitness trail along the perimeter of the project site. Kimley-Horn provided master planning; landscape architecture; design, engineering, and permitting services; and construction observation and administration. This project serves as the City's first Leadership in Energy and Environmental Design (LEED) building, which obtained Gold Certification. The City also plans to construct a 10,000-square-foot civic center, press box, concession stand, and storage area at the site during later phases.

Miami Lakes Downtown Phase I and II, and Lake Patricia Roadway/Drainage Improvement Projects, Miami Lakes, FL — Served as project engineer and provided roadway/drainage design and hydrologic modeling. Kimley-Horn was involved with the design and permitting services to implement a large roadway and drainage improvement project located in Downtown Miami Lakes. The project area consisted of Bull Run Road from NW 67th Avenue south to Ludlum Road and Miami Lakeway North from NW 67th Avenue to Miami Lakes Drive. It also included Main Street and Meadow Walk from Bull Run to Miami Lakeway North. The capital project included approximately one mile of roadway restoration/resurfacing and drainage improvements in residential/business areas, curbing and sidewalk improvements, a new outfall pipe, swale restoration, signing and pavement markings, and site restoration. The drainage improvements consisted of approximately 3,000 linear feet of exfiltration trench, approximately 2,500 linear feet of HDPE piping, approximately 40 drainage structures and one outfall structure and headwall. Kimley-Horn also provided construction phase services to expedite the project, confirm the project was built in accordance with the design plans, and to minimize impacts to the community during construction.

Miami Lakeway North Resurfacing and Drainage Improvements, A Federally-Funded Design-Build Project, Miami Lakes, FL — Served as project engineer. Kimley-Horn assisted the Town in obtaining more than $600,000 in stimulus funding to construct this roadway and drainage improvement project that includes a portion of Miami Lakeway North between Celebration Point and Miami Lakes Drive and NW 153rd Street from Miami Lakeway North to NW 60th Avenue. Prior to obtaining the stimulus funding, Kimley-Horn assisted the Town in becoming Local Agency Program (LAP) certified so that the Town would be eligible to obtain the stimulus funding. Our team developed a design criteria package—in compliance with Federal funding criteria—which resulted in securing the stimulus funding and award of the project to the design-build team. The project included drainage system improvements such as new stormwater inlets, a new outfall connection, exfiltration trench for water quantity and quality treatment, new sidewalk, and new pavement markings and signage. Kimley-Horn also provided construction phase services to expedite the project and to confirm that the project was built in compliance with the design criteria.

Mowry Drive Roadway Improvements, Homestead, FL — Project engineer for the new construction and widening of Mowry Drive (SW 320th Street) from SW 157th Avenue to SW 152nd Avenue. The existing roadway consisted of a one-lane paved road and was proposed to be converted to a four-lane divided urban section with bike lanes on both sides. The project included design and preparation of roadway, drainage, signing and marking, lighting, water main extension, landscaping and irrigation plans. As part of the project, environmental and drainage permits were obtained from SFWMD, RER and USACE. The project also included preparation of bid documents and construction supervision.

General Consulting Services, Palmetto Bay, FL — Kimley-Horn is currently working with the Village of Palmetto Bay as a general consultant to provide all types of engineering services, such as planning, general civil engineering, and transportation. The Village of Palmetto Bay is a newly-incorporated community that is evaluating the condition of their infrastructure and developing a new vision for their community. The Village has looked to Kimley-Horn to develop a stormwater master plan and an associated stormwater management plan to implement a stormwater utility and obtain ownership of the infrastructure. The Village has also asked Kimley-Horn to develop a comprehensive plan as a foundation and framework for the new municipality, as well as provide civil engineering expertise to help them implement their new community vision. Other services provided have included local flooding analysis and assistance with grant applications.

DAVID GOLDMAN, P.G.

Technical Advisory Group; Environmental Services; Brownfield Services and Funding

Midtown Miami, Brownfield Site Redevelopment, Miami, FL

Served as project manager for assessment and remediation of this 56-acre Brownfield, which has now become the largest redevelopment project in the City of Miami. The site was a 100-year-old FEC rail yard with contaminants ranging from petroleum hydrocarbons to metals. The remediation activities were integrated into the site overall development plan to reduce cleanup costs by millions of dollars while allowing for the full development of the property. The site received an SRCO in 2006. In addition, Kimley-Horn designed all public infrastructure, including roadways and utilities, and has provided traffic, landscape architecture, and urban planning services for Midtown Miami. This project is an example of the turnkey type of Brownfield redevelopment services Kimley-Horn offers, and we are very proud of the fact that Midtown Miami is the recipient of the EPA Region 4 2009 Phoenix Award, the nation's most prestigious award for Brownfield redevelopment.

Jaxson Brown/HASSCO Rehab Brownfield Site, Jacksonville, FL

Project manager for the development of this Brownfield site that was operated as a landfill in the 1970s. The site was an abandoned property and the landfill cap was extensively breached when originally purchased by client. Kimley-Horn developed a plan to address environmental concerns such as groundwater and soil impacts, along with wetland encroachment, while still devising a plan for useful land development. We reduced the potential for environmental impacts by preparing a plan to develop the property with minimal impact to existing subsurface waste, thereby creating a "win-win" situation for both FDEP and the client. We developed contamination assessment plans (CAPs) and implemented assessment activities for the former landfill. We also completed contamination assessment reports (CARs); negotiated with FDEP on assessment and monitoring activities; prepared the solid waste permit, environmental resource permit (ERP), and stormwater application for review by FDEP. The project has been completed and is currently being considered for redevelopment as a big-box retail center. This is the first project of its kind in the FDEP Northeast District.

Walmart on Philips Highway (Clinton) Brownfield Site, Jacksonville, FL — Project manager for the redevelopment of a 30-acre, Brownfield site in Jacksonville. Approximately 60,000 yards of waste and contaminated soil were located on the property. Groundwater impacts were identified as related to waste on the site and impacts were also identified in association with nine underground storage tanks (USTs). Kimley-Horn developed a combined document that provided a complete assessment and remediation plan for the site. The document was approved by FDEP with no comments. The remediation plan consisted of excavation of C&D waste and screening of the waste. The residual screened material (RSM) was to be kept on-site and used as fill and the

Special Qualifications

- More than 25 years of experience in conducting and managing remediation projects involving hazardous waste, industrial waste, and petroleum contamination; water resource development; permitting; groundwater modeling; and aquifer storage and recovery
- More than 14 years of experience with Brownfield redevelopment in the State of Florida, specializing in integration of assessment and remediation with site civil design, permitting, planning, and construction
- Experience with environmental compliance, RCRA, CERCLA, and state hazardous waste and cleanup programs
- Familiar with the following programs involving aquifer characteristic calculations, groundwater flow, and contaminant transport: MOC, MODFLOW, Groundwater Vistas, QuickFlow, Aquifer win 32, WinTrans, MODPATH, RT3D, and finite element modeling of groundwater and contaminant transport
- Member of ASTM committee on development of Phase I ESA and other environmental standards and developed Phase I and II ESA protocols used by Walmart on a nationwide basis

Professional Credentials

Master of Science, Geology, University of Florida

Bachelor of Science, Geology, University of Florida

Professional Geologist in Florida, Georgia, and North Carolina

DNAPL Site Diagnosis and Remediation, University of Waterloo

Applied 2-D Flow and Transport Modeling on Microcomputers, Institute of Government

Simulation of Flow and Transport in Subsurface Media with Finite Element and Analytical Methods, Pennsylvania State University

CERCLA Response and Enforcement, PRC

40-hour OSHA Hazardous Waste Operations and Emergency Response Training

Visual MODFLOW

Professional Organizations

Florida Brownfields Association

ASTM E 50 Environmental Subcommittee

National Groundwater Association

Risk Management Associates (Board Member)

University of Florida Department of Geology Advisory Board

waste to be disposed in a C&D landfill. Engineering and institutional controls were used to address contaminants in the RSM. Kimley-Horn prepared a waste excavation and disposal plan for site activities and a dewatering plan to be implemented during construction. In addition, we completed a MODFLOW/MT3D model to simulate the effects of the proposed stormwater ponds on the site relative to the known groundwater contaminant plumes. The project is considered a major success by FDEP Northeast District and is used as an example of how to deal with waste on a non-permitted site during construction.

Resorts World Miami (former Miami Herald site), Miami, FL — Member of the Kimley-Horn team that is providing site/civil engineering, environmental, and ongoing traffic engineering services for the 14-acre bayfront site that previously housed the Miami Herald newspaper at 1 Herald Plaza in Miami. The proposed project includes four new hotels with more than 5,000 rooms and two residential towers featuring up to 1,000 units; a luxury retail galleria; a 3.6-acre rooftop lagoon and natural sand beach; more than 50 restaurants, lounges, bars, and nightclubs; a high-tech multimedia entertainment area showcasing the music and culture of Florida and South America; and 700,000 square feet of convention and meeting space. The resort will help develop the three-mile BayWalk, which highlights a 150-acre leisure and entertainment area in downtown Miami. Team tasks include due diligence, parking studies, underground utility design, preparation of a Special Area Plan (SAP) traffic study consistent with City of Miami 21 Zoning Code, environmental site assessment and potential remediation planning, including contaminant delineation, water quality evaluation, and quarterly groundwater monitoring.

Wauchula EPA Brownfields Assessment Program Consulting, Wauchula, FL — In 2011, the City of Wauchula was awarded a Brownfields Assessment Grant by the EPA to assess hazardous substances and petroleum contamination at various sites within the designated enterprise zone. Kimley-Horn's scope of work under this task-based contract includes generation of scope/fee and completion of Phase I and Phase II Environmental Site Assessments (ESAs) at designated sites; preparation of site-specific Quality Assurance Project Plans (QAPPs) and Health and Safety Plans (HASPs) to meet EPA and FDEP standards; preparation of monthly and quarterly report documentation for submittal to EPA; Brownfield Site Rehabilitation Agreements (BSRAs) development and negotiations; and assisting with negotiating assessment requirements with the EPA and FDEP on behalf of the County. Additional services include community outreach/stakeholder involvement, risk assessment reporting, asbestos and lead-based paint surveys, and the generation of cleanup and redevelopment plans. In addition, currently serving as project manager for the Coker Oil site in Wauchula; tasks for this work order include preparation of site-specific Quality Assurance Project Plans (QAPPs) and a Phase II Environmental Site Assessment (ESA).

New Smyrna Beach Environmental Assessment and Characterization Services (Brownfields), New Smyrna Beach, FL
Serving as project manager. Kimley-Horn is providing Phase I and Phase II environmental assessments as well as remediation planning services under a $400,000 2009 EPA Community-wide Assessment Grant awarded to the City of New Smyrna Beach and its Community Redevelopment Agency (CRA). Our services include preparation of site-specific Quality Assurance Project Plans (QAPPs), Health and Safety Plans (HASPs), and evaluation of Analyses of Brownfield Cleanup Alternatives (ABCAs) for sites selected by the City.

Central Florida Regional Planning Council (CFRPC) EPA Brownfields Assessment Program; Polk, Hardee, DeSoto, Highlands, and Okeechobee Counties, FL — Project manager. Kimley-Horn is providing Phase I and Phase II environmental assessments as well as remediation planning services under a $1,000,000 2009 Coalition Grant awarded to the Central Florida Regional Planning Council and its Heartland Brownfields Coalition Partners under the American Recovery and Reinvestment Act (ARRA). Our services include site assessment, remediation planning, Analyses of Brownfield Cleanup Alternatives (ABCAs), quarterly reporting, Quality Assurance Project Plans (QAPPs), Health and Safety Plans (HASPs), and other reports as required by the EPA.

Malibu Bay, Brownfield Site, West Palm Beach, FL — Project manager for this 264-unit low-to-moderate-income apartment complex located on a 13-acre portion of the former Palm Beach Lakes Golf Course. The golf course was designated a Brownfield by the State of Florida because the groundwater had become contaminated with arsenic after years of pesticide treatments. Kimley-Horn completed the site assessment and remediation design for the use of engineering and institutional controls to address soil, groundwater, and sediment arsenic impacts. This was the first residential site in the State of Florida for which such controls were approved for use. This was also the first site in US EPA Region 4 for which a low-interest loan was used to develop affordable housing, and $20 million in redevelopment was generated. Kimley-Horn also provided the site civil engineering, surveying, construction administration, and civil permitting services required to redevelop the site as a multifamily development.

JASON SHEASLEY, P.G.

Environmental Services

Midtown Miami Brownfield Redevelopment, Miami, FL — Senior hydrologist for the site assessment activities conducted on the 56-acre site that formerly operated as a railroad yard. Supervised and documented soil and groundwater sampling activities. Assisted in the development of remedial strategies to address the environmental concerns associated with the site. These strategies were incorporated into the multi-million dollar brownfield redevelopment of the site. Remedial strategies were developed to reduce the potential for environmental impact and human exposure while allowing for the beneficial development of the site. Completed site assessment reports, remedial action plans, and engineering evaluation and cost analysis for the site. Assisted in preparation of the Brownfield site rehabilitation agreement for the subject site.

Resorts World Miami (former Miami Herald site), Miami, FL — Member of the Kimley-Horn team that is providing site/civil engineering, environmental, and ongoing traffic engineering services for the 14-acre bayfront site that previously housed the Miami Herald newspaper at 1 Herald Plaza in Miami. The proposed project includes four new hotels with more than 5,000 rooms and two residential towers featuring up to 1,000 units; a luxury retail galleria; a 3.6-acre rooftop lagoon and natural sand beach; more than 50 restaurants, lounges, bars, and nightclubs; a high-tech multimedia entertainment area showcasing the music and culture of Florida and South America; and 700,000 square feet of convention and meeting space. The resort will help develop the three-mile BayWalk, which highlights a 150-acre leisure and entertainment area in downtown Miami. Team tasks include due diligence, parking studies, underground utility design, preparation of a Special Area Plan (SAP) traffic study consistent with City of Miami 21 Zoning Code, environmental site assessment and potential remediation planning, including contaminant delineation, water quality evaluation, and quarterly groundwater monitoring.

Former Buena Vista Railroad Yard, Miami, FL — Senior hydrologist for the site assessment activities conducted on the 50-acre site that formerly operated as a railroad yard. Supervised and documented of soil and groundwater sampling activities. Assisted in the development of remedial strategies to address the environmental concerns associated with the site. These strategies were incorporated into the multi-million dollar Brownfield redevelopment of the site. Remedial strategies were developed to reduce the potential for environmental impact and human exposure, while allowing for the beneficial development of the site. Completed site assessment reports, remedial action plans, and engineering evaluation and cost analysis for the site. Assisted in preparing the Brownfield Site Rehabilitation Agreement for the subject site.

Special Qualifications

- Has 22 years of experience in water resources, hydrogeology, contaminant hydrogeology, and geology
- Experience in the development of Brownfield sites and environmentally-impacted properties
- Managed geologic and hydrogeologic investigations for the characterization of subsurface contamination at commercial, industrial, and government sites nationwide
- Directed and managed projects relating to the characterization and remediation of soil and groundwater contamination
- Familiar with the use and application of geographic information systems (ArcView, ArcGIS, ArcInfo, and ArcSDE)
- Experience with due diligence Phase I and Phase II environmental site assessment reporting
- Proficient with MODFLOW 3-dimensional groundwater modeling and the use of Groundwater Vistas finite-difference groundwater modeling software

Professional Credentials

Bachelor of Science, Earth and Environmental Science, Wilkes University (Pennsylvania)

Professional Geologist in Florida, North Carolina, and Pennsylvania

Hazardous Material Site Worker Course, OSHA 40-Hour HAZWOPER Training

Health & Safety for Hazardous Waste Operations, 8-Hour HAZWOPER Refresher (Current)

Ground Water Field Techniques, U.S. Geological Survey

The MODFLOW Course, National Ground Water Association

Application of Health Risk Assessment for Environmental Decision Making, National Ground Water Association

Introduction to Groundwater Flow and Transport Modeling Using Groundwater Vistas – Environmental Simulations, Inc.

Review of the District-Wide Regulation Model Version 2 and Focus TMR Technique – Environmental Simulations, Inc.

Professional Organizations

National Ground Water Association, Member in Good Standing, (1999 to present)

First Coast Chapter of the Academy of Certified Hazardous Materials Managers, President (2005), Vice President (2004), Secretary (2003)

Florida Association of Professional Geologists (FAPG)

Jaxson Brown/HASSCO Rehabilitation Brownfield Site, Jacksonville, FL — Member of the Kimley-Horn team for assessment activities at this Brownfield site that was operated as a landfill in the 1970s. The site was an abandoned property and the landfill cap was extensively breached when originally purchased by client. Kimley-Horn developed a plan to address environmental concerns such as groundwater and soil impacts, along with wetland encroachment, while still devising a plan for useful land development. We reduced the potential for environmental impacts by preparing a plan to develop the property with minimal impact to existing subsurface waste, thereby creating a "win-win" situation for both FDEP and the client.

Wal-Mart, Philips Highway (Clinton), Jacksonville, FL — Member of the Kimley-Horn team responsible for redevelopment of a 30-acre Brownfield site in Jacksonville. Approximately 60,000 yards of waste and contaminated soil were located on the property. Groundwater impacts were identified as related to waste on the site and impacts were also identified in association with nine underground storage tanks. Developed a combined document that provided a complete assessment and remediation plan for the site. The document was approved by the Florida Department of Environmental Protection (FDEP) with no comments. Kimley-Horn prepared a waste excavation and disposal plan for site activities and a dewatering plan to be implemented during construction. In addition, Kimley-Horn completed a MODFLOW/MT3D model to simulate the effects of the proposed stormwater ponds on the site relative to the known groundwater contaminant plumes. The project is considered a major success by FDEP Northeast District and is used as an example of how to deal with waste on a non-permitted site during construction.

Office Depot, Inc., Delray Beach, FL — Conducted site assessment to evaluate localized soil and groundwater quality. Initiated interim source removal to remove contaminated material from the site. Developed a remedial action plan to address localized groundwater contamination. Prepared and submitted documentation to regulatory agency. Kimley-Horn provided assessment and remediation services for a contaminated site under Chapter 62-780, FAC.

Wal-Mart, Palmetto, FL — Project manager for the Phase I and Phase I environmental site assessment conducted on this 30-acre site, which consisted of a former industrial facility, plant nursery, and unregulated solid waste disposal area. Delineated the extent of the soil/groundwater impacts and buried solid waste on the site. Developed a remedial action plan to address the identified environmental impacts that incorporated the proposed site development plans. The remedial alternatives included the use of engineering and institutional controls to address the soil/groundwater impacts. Provided supervision for the ongoing remedial activities.

Wauchula EPA Brownfields Assessment Program Consulting, Wauchula, FL — In 2010, Kimley-Horn prepared a Brownfields Assessment Grant application to assess hazardous substances and petroleum contamination at various sites within the designated enterprise zone for the City of Wauchula. In 2011, the City was awarded a $400,000 grant. The City selected Kimley-Horn to complete tasks under the grant, including Phase I and Phase II Environmental Site Assessments (ESAs) at designated sites; preparation of site-specific Quality Assurance Project Plans (QAPP) and Health and Safety Plans (HASP) to meet EPA and FDEP standards; preparation of monthly and quarterly report documentation for submittal to EPA; Brownfield Site Rehabilitation Agreements (BSRAs) development and negotiations; and assistance with negotiating assessment requirements with the EPA and FDEP on behalf of the County. Additional services include community outreach/stakeholder involvement, risk assessment reporting, asbestos and lead-based paint surveys, and the generation of cleanup and redevelopment plans. To date, Kimley-Horn has completed two Phase I and two Phase II ESA reports, several quarterly reports, and public outreach meetings.

Malibu Bay, West Palm Beach, FL — Member of the Kimley-Horn team that completed the site assessment and remediation design for the use of engineering and institutional controls to address soil, groundwater, and sediment arsenic impacts for this 264-unit, low- to moderate-income apartment complex located on a 13-acre portion of the former Palm Beach Lakes Golf Course. The golf course was designated a Brownfield by the State because the groundwater had become contaminated with arsenic after years of pesticide treatments. This was the first residential site in the State of Florida for which such controls were approved for use. We also provided the site civil engineering, surveying, construction administration, and civil permitting services required to redevelop the site as a multi-family development.

New Smyrna Beach Environmental Assessment and Characterization Services (Brownfields), New Smyrna Beach, FL
Served as field director for Phase II ESA for the Foley Dry Clearing Facility in New Smyrna Beach. This work was conducted and the 2009 EPA community-wide assessment grant for $400,000 awarded to the City of New Smyrna Beach and its Community Redevelopment Agency. Our services include preparation of site-specific quality assurance project plans, health and safety plans, and evaluation of analyses of Brownfield cleanup alternatives for sites selected by the City.

LEAH ZIHLMAN, CHMM
Environmental Services

Resorts World Miami (former Miami Herald site), Miami, FL — Member of the Kimley-Horn team responsible for conducting environmental site assessment and potential remediation planning of a nine-parcel site, including contaminant delineation, water quality evaluation, and quarterly groundwater monitoring. Kimley-Horn is providing site/civil engineering, environmental, and ongoing traffic engineering services for the 14-acre bayfront site that previously housed the Miami Herald newspaper at 1 Herald Plaza in Miami. The proposed project includes four new hotels with more than 5,000 rooms and two residential towers featuring up to 1,000 units; a luxury retail galleria; a 3.6-acre rooftop lagoon and natural sand beach; more than 50 restaurants, lounges, bars, and nightclubs; a high-tech multimedia entertainment area showcasing the music and culture of Florida and South America; and 700,000 square feet of convention and meeting space. The resort will help develop the three-mile BayWalk, which highlights a 150-acre leisure and entertainment area in downtown Miami. Other team tasks include due diligence, parking studies, underground utility design, and preparation of a Special Area Plan (SAP) traffic study consistent with City of Miami 21 Zoning Code.

Walmart Stores, Statewide, FL — Analyst on the Kimley-Horn team responsible for conducting Phase I and II environmental site assessments, source removal, groundwater monitoring, and site remediation at numerous locations in Florida, including sites in Tampa, Port Richey, Pompano Beach, Delray Beach, Opa-Locka, Hollywood, Largo, Fort Myers (Iona), Holiday, and Miramar. Common identified issues of concern included pesticide and arsenic contamination, muck and wetlands, and former industrial/commercial sites with solvent and petroleum contamination.

South Florida Regional Transportation Authority (SFRTA) General Planning Consultant, Palm Beach, Broward, and Miami-Dade Counties, FL — Serves as project analyst; recently involved with preparation of environmental site assessment reports. Kimley-Horn serves as a general planning consultant to the South Florida Regional Transportation Authority, which operates the Tri-Rail commuter rail service between West Palm Beach and Miami. Tri-Rail is the only existing commuter rail service in Florida. Team responsibilities include short- and long-range transportation planning, facilities planning and development, alternative analyses and major investment studies, station area/transit-oriented development and oversight, financial planning and analysis, environmental analysis, and conceptual site planning.

New Smyrna Beach Environmental Assessment and Characterization Services (Brownfields), New Smyrna Beach, FL — Serving as project analyst. Kimley-Horn is providing Phase I and Phase II environmental site assessments (ESAs), as well as remediation planning services under a 2009 EPA community-wide assessment grant for $400,000 awarded to the City of New Smyrna Beach and its Community Redevelopment Agency. Our services include preparation of site-specific quality assurance project plans, health and safety plans, and evaluation of analyses of Brownfield cleanup alternatives for sites selected by the City. Specifically involved with Phase I ESAs for sites at 303 Faulkner, 115 Washington, and 431 Canal Street in New Smyrna Beach.

Special Qualifications

- Five years of experience conducting hydrogeologic investigations, environmental site assessments, and soil and ground water remediation projects involving petroleum contamination and hazardous waste
- Experience conducting Phase I and Phase II Environmental Assessments in accordance with ASTM Standard Practices E1527-05 and E1903-97
- Proficient performing risk assessments to determine potential for contaminants in soil and groundwater to affect public health and the environment including two-dimensional fate and transport modeling (BIOSCREEN) and risk-based action level calculations
- Experience conducting vapor intrusion assessments including subsurface vapor sampling and vapor migration analysis via the Johnson and Ettiger Vapor Intrusion Model
- Proficient with computer assisted drafting applications (AutoCAD)

Professional Credentials

Bachelor of Science, Environment and Natural Resources, Ohio State University, 2007

Certified Hazardous Materials Manager, Credential Number 16409

40-hour OSHA Hazardous Waste Operations and Emergency Response Training and annual 8-hour refresher

Professional Organizations

Institute of Hazardous Materials Management

First Coast Chapter of the Alliance of Hazardous Materials Professionals

Florida Association of Environmental Professionals

Miami River-Miami Intermodal Center Capacity Improvement (MR-MICCI), Miami, FL — Serving as analyst. This project will provide additional mainline track(s) within the South Florida Rail Corridor from just north of the Tri-Rail Hialeah Market Station to the Tri-Rail Miami Airport Station, which in the future will be accommodated within the Miami Intermodal Center's (MIC's) Miami Central Station (MCS). The project will also include a new bridge across the Miami River to accommodate the additional mainline track(s). The additional mainline track(s) will address an existing capacity deficiency along the system that negatively impacts travel time and schedule adherence. The project is integrating the National Environmental Policy Act (NEPA) requirements into the Alternatives Analysis (AA) process. The Federal Transit Administration (FTA) is serving as the lead federal agency and the project is anticipating advancing as a project that could fall within the defined funding under the FTA's Small Starts or Very Small Starts programs.

Wauchula EPA Brownfields Assessment Program Consulting, Wauchula, FL — Serving as project analyst. In 2010, Kimley-Horn prepared a Brownfields Assessment Grant application to assess hazardous substances and petroleum contamination at various sites within the designated enterprise zone for the City of Wauchula. In 2011, the City was awarded a $400,000 grant. The City selected Kimley-Horn to complete tasks under the grant, including Phase I and Phase II Environmental Site Assessments (ESAs) at designated sites; preparation of site-specific Quality Assurance Project Plans (QAPP) and Health and Safety Plans (HASP) to meet EPA and FDEP standards; preparation of monthly and quarterly report documentation for submittal to EPA; Brownfield Site Rehabilitation Agreements (BSRAs) development and negotiations; and assistance with negotiating assessment requirements with the EPA and FDEP on behalf of the County. Additional services include community outreach/stakeholder involvement, risk assessment reporting, asbestos and lead-based paint surveys, and the generation of cleanup and redevelopment plans. To date, Kimley-Horn has completed two Phase I and two Phase II ESA reports, several quarterly reports, and public outreach meetings.

TD Bank (formerly Commerce Bank), Miami-Dade, Broward, and Palm Beach Counties, FL — Analyst for the Kimley-Horn team that has provided a range of site civil services, environmental design, landscape design, transportation planning, and traffic engineering for this retail bank program in Florida. The firm has investigated more than 300 South Florida locations, and designed and permitted more than 60 sites. TD Bank has made sustainable design a priority and seeks LEED certification for many of their new branches. Has assisted with the preparation of Phase I, Environmental Site Assessment (ESA) reports for several locations, including sites in Winter Park, South Miami, Coral Gables, Plantation, and Pinecrest.

Phase I and II Environmental Site Assessments, Walmart Stores, Inc., Nationwide — Member of the Kimley-Horn team responsible for conducting Phase I and II environmental site assessments and groundwater monitoring at multiple sites in Florida and North Carolina. Common identified issues of concern included pesticide and arsenic contamination, muck and wetlands, former industrial and commercial sites with solvent and petroleum contamination. Member contributions included supervising all relevant subcontractors, proper sampling of contaminated media, and drafting final reports for legal counsel review.

Environmental Site Assessments, Shadowbrook Estates, Indian River County, FL — Member of the Kimley-Horn team responsible for conducting environmental site assessment of a 29-acre former citrus grove, including contaminant delineation, water quality evaluation, and groundwater monitoring.

Environmental Site Assessments, U.S. Sugar, Bryant Facility, Palm Beach County, FL — Member of the Kimley-Horn team responsible for conducting environmental site assessment of a former sugar processing facility including soil and groundwater quality evaluation. Member contributions included supervising all relevant subcontractors, proper sampling of contaminated media, and drafting final reports for legal counsel review.

Environmental Site Assessments, Maritime Tug, Martin County, FL — Member of the Kimley-Horn team responsible for conducting environmental site assessment of an 8.6-acre former agricultural site, including water quality evaluation and groundwater monitoring.

Environmental Due Diligence and Phase I Environmental Site Assessments, Clay County, FL — Member of the Kimley-Horn team responsible for performing environmental due diligence under a USEPA Brownfields grant, including Phase I Environmental Site Assessments.

JORGE FERNANDEZ, P.E.

Land Development

Midtown Miami Brownfield Redevelopment, Miami, FL — Provided utility profiling and coordination, permit scheduling, site inspection and calculations, water and sewer design, Community Development District reports, drainage report and exhibits, OPC, zoning approval, capital improvements, public right-of-way improvements, sight triangulation, environmental restoration analysis, shop drawing reviews for this large redevelopment project.

Faena Miami Beach, Miami Beach, FL — Serving as program manager for the Kimley-Horn team that is providing civil and traffic engineering services for this mixed-use project located on eight city blocks. The project involves renovations and improvements to the existing historic Saxony, Versailles, and Atlantic hotels, which were originally completed in the 1940s. As part of the new Faena District, the project also includes construction of five condominium buildings, an underground parking garage, event space, and two separate amenity decks to serve the hotel and condo towers. Our services include due diligence; schematic design; landscape architecture; permitting through the City of Miami Beach WASD and DERM, FDOT, FDEP, and SFWMD; preparation of contract documents; and construction phase assistance.

NW 37 Avenue Water and Sewer Improvements, Miami-Dade County, FL — Project engineer. This project is part of the Miami-Dade Water and Sewer Department's (MDWASD) "Needs Assessment Program" (NAP). It consisted of the preparation of a technical memorandum to evaluate alternatives and recommend improvements within a 2,000-acre area of unincorporated Miami-Dade County that had little or no existing water and sewer infrastructure. The scope of services included data collection; site investigations; and researching utility billing records to identify properties currently without water and sewer service or being served by the City of Hialeah. Other tasks performed included environmental site assessments, researching right-of-way availability, coordination with regulatory agencies and stakeholders, future demand projections, hydraulic modeling to identify system deficiencies and the development of alternatives to meet current and future potable service and fire protection demands. Kimley-Horn delivered a Technical Memorandum to MDWASD containing all findings and recommendations for implementation of improvements.

General Civil Engineering Consultant, Bay Harbor Islands, FL — Served as project analyst and provided permitting assistance for this general services contract. The Kimley-Horn team recently completed the master plan for a community enhancement program that includes roadway, streetscape, drainage, utility undergrounding, and beautification. Additional projects that are currently under construction, or have recently been constructed, are two passive parks and a roadway beautification project. Half of the cost of these projects was funded by a grant obtained with Kimley-Horn's assistance.

Terrazas RiverPark Village, Miami, FL — Located in the City of Miami, this project will consist of two high-rise towers featuring beautiful views of the Miami River and Sewell Park, a 10-acre city park. Originally, this site consisted of a condemned hospital and many large trees. Serving as project analyst, provided utility coordination and performed the site utility study for this urban residential development.

Hialeah Park Development of Regional Impact (DRI), Hialeah, FL — Served as RAC/UCBD scheduler and provided civil coordination. Kimley-Horn provided entitlement services, including

Special Qualifications

- Has 11 years of diverse civil engineering analyst experience
- Areas of expertise include land development, stormwater management, water and sewer systems, urban planning, permit expediting, utility system design, and profiling
- Experience serving a diverse group of clients, including counties, municipalities, government agencies, and private developers
- Proficient in AutoCAD and design analysis software programs

Professional Credentials

Bachelor of Science, Civil Engineering, Florida International University

Professional Engineer in Florida

Professional Organizations

American Society of Civil Engineers (ASCE)

American-Cuban Engineers

DRI, comprehensive plan amendment, rezoning, and master planning for the redevelopment of Hialeah Park. Hialeah Park is a 202-acre, former horse racing facility that first opened in 1926. The redeveloped site is expected to include 3,760 residential units, retail and office space, a town center, school, and several parks and urban plazas. For future portions of the project, Kimley-Horn will provide civil engineering, urban design, landscape architecture, planning, and project management services.

City of Homestead Community Redevelopment Southwest Neighborhood Plan, Homestead, FL — Served as project analyst and performed contaminant investigation, OPC, and master planning. The Southwest Neighborhood Master Plan is truly a first class work plan for all future development within the 350-acre historic African American neighborhood in the City of Homestead. Kimley-Horn led a diverse team of architects, economists, historians, planners, and specialists (including transportation, utilities, and environmental) to develop a holistic approach to the redevelopment plan for the neighborhood. Through a tremendous public consensus effort, the project has now become an amendment to the City land development code and is being implemented.

Miami River Greenway, Miami, FL — Project analyst involved in the creation of a greenway within the existing right-of-way owned by the City of Miami. Responsibilities included permitting, drainage, site utility coordination and profiling, schematics, storm invert inspection, and survey verification. Our team provided site civil services for paving, grading, landscape architecture, construction plans, drainage plans, and permitting. The new Miami River Greenway will serve as a pedestrian linkage for the many communities along the river to the downtown.

RiverFront, Miami, FL — Prepared the plans development submittal and provided utility coordination, site calculations, cross-sections, and paving and grading for this 11-acre site for a six-tower residential development.

Bank of America (Coral Way and 147th Avenue, Bird Road and 152nd Avenue), FL — Providing permitting, approval coordination, cut and fill analysis, public works plans, site utility study, and lift station calculations.

3333 Biscayne, Miami, FL — Project manager responsible for the site civil elements of this 15-story office building. Kimley-Horn applied the following green/sustainable elements and practices: A/C condensate for irrigation, pedestrian garden area, pervious pavers, quality/quantity drainage, domestic and landscape water use efficiency, building energy efficiency, waste reduction management, and an indoor environmental layout.

Brickell Tennis Club, Miami, FL — Served as analyst and provided utility and drainage reporting and coordination, permitting, and ICPR. Kimley-Horn prepared the civil and landscape documents for this three-acre tennis facility. The first of its kind in downtown Miami, the club is a tropical oasis and resort amenity to the Four Seasons Hotel.

ICE, Miami, FL — Provided Miami-Dade Water and Sewer District and FDOT construction document productions, permit coordination, underground utility coordination, site utility study, profiling, OPC/construction estimating, roadway alignment, drainage inspections, and MEP coordination.

Infinity at Brickell (Infinity I and II), Miami, FL — Provided on-site and off-site drainage, permitting, site inspection, utility, water and sewer design, project management, development coordination and assistance, fire protection, finished-floor analysis, drainage well design, municipality coordination, and revision services.

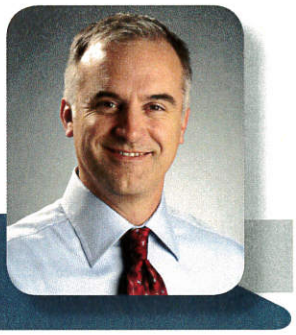
3050 Biscayne/3100 Biscayne, Miami, FL — For this site utility study, provided site and drainage evaluation, permitting, zoning, drainage analysis, surveyor and attorney coordination, and utility coordination for this residential tower development.

Bay View Market — Provided permitting, plans development submittals, utility coordination and profiling, project work planning, storm sewer excavation and relocation, utility relocations, and construction coordination.

Miami Children's Hospital, Miami, FL — Served as project engineer. Kimley-Horn provided civil engineering services to Miami Children's Hospital for a parking garage, central energy plant, and oxygen plant. Associated civil engineering services included drainage design, roadway design, easement coordination, permitting, development of a stormwater management plan, design of underground storage tanks, and the preparation of construction documents.

BILL WADDILL, RLA, AICP

Planning and Public Outreach



Hollywood Beach Community Redevelopment Agency (CRA) Street Planning and Transportation Vision, Hollywood, FL — Working intensely with a team of stakeholders, City staff planners, architects, landscape architects, and engineers, Kimley-Horn collaborated with Glatting Jackson in 2002 to develop a transportation and revitalization plan for the City of Hollywood Beach CRA District, an area that wished to retain and enhance its rich and vibrant past to become an attractive mixed-use village, and to make its beach a tourist destination. The study area included the Broadwalk, Surf Road, A1A, and Hollywood Boulevard. The theme for the revitalization area became the friendly, charming beachside village that enjoyed popularity in the '40s, '50s, and '60s.

Broadwalk Design and Gateway Features Development Study, Hollywood, FL — Principal-in-charge for the Kimley-Horn team that worked closely with a team of local stakeholders, the Hollywood Beach CRA, and the City to develop a Master Plan for the restoration and enhancement of the historic Hollywood Beach Broadwalk. The design for this 10,000± LF promenade along the beach took inspiration from the Broadwalk's rich and vibrant history and incorporated enhancements focused on reinforcing Hollywood Beach as an attractive mixed-used village and tourist beach destination. Worked closely with CRA and City staff regarding all aspects of the design, including functional layout of the design features and product and material selections for all Broadwalk components. Special consideration was given to the creation of design elements that "gestured" to the compelling history of the Broadwalk while meeting the functional, environmental, and sustainability requirements of this heavily used oceanfront amenity. Finally, served on the selection committee that ultimately selected the Construction Manager at Risk for implementation.

Dixie Highway/21st Avenue Corridor Redesign Concept and Mobility Study, Hollywood, FL — Landscape architect. Through contracts with the City of Hollywood and the Hollywood CRA, Kimley-Horn is preparing a Redesign Concept Study for the Dixie Highway and 21st Avenue corridor throughout Hollywood between Pembroke Road and Sheridan Street. The goal is to create a "transit-ready corridor" along the FEC Railroad by implementing Complete Streets solutions in anticipation of re-establishing passenger rail service through seamless integration of an anticipated Tri-Rail Coastal Link station. Implementing Complete Streets solutions along Dixie Highway/21st Avenue is important to achieve the vision for improved multimodal mobility and livability along this important north-south corridor. The Complete Streets approach recommended in this study includes a "road diet" lane reduction to repurpose excess automobile capacity for bicyclist, pedestrian, and transit improvements. In addition, the Complete Streets approach will establish a transit-ready corridor for seamless integration of an anticipated Tri-Rail Coastal Link station along the Florida East Coast (FEC) railroad.

US 1 Corridor Study, Hollywood, FL — Landscape architect on the Kimley-Horn team selected to design a new cross section for a portion of US 1 that would allow for wider medians, improved sidewalk plantings, and extended medians to control access and improve safety through the corridor. In order to accomplish the City's goals for the corridor, Kimley-Horn worked with FDOT to designate this section of the road under their Transportation Design for Livable Communities (TDLC) program. The TDLC designation allows for a more advantageous horizontal clearance that will allow for larger trees to be planted closer to the curbs and paves the way for allowing the design speed of the corridor to be lowered to match the designated

Special Qualifications

- Has 27 years of experience ranging from major residential, commercial, and mixed-use land development to municipal urban design, parks, and roadway corridors
- Principal areas of practice include land development, community redevelopment, site and land use planning, entitlements, landscape architecture, streetscape and urban design, and public involvement

Professional Credentials

Bachelor of Science, Landscape Architecture, Texas A&M University

Landscape Architect in Florida, California, Nevada, and Texas

Professional Organizations

American Institute of Certified Planners (AICP)

American Planning Association (APA)

American Society of Landscape Architects (ASLA)

speed, which will allow for a typical section to be approved with narrower drive lanes. Kimley-Horn also presented traffic and crash data analysis to determine where medians could be extended throughout the corridor, allowing for more landscape space in medians and creating less crossing turning movements through the corridor for safety. Renderings of proposed development scenarios were worked through with City staff for use in upcoming public presentations.

Bradenton Downtown Development Authority Riverwalk, Bradenton, FL — Served as project manager. Kimley-Horn completed the master planning process for the 1.25-mile-long riverfront area in Bradenton known as the Riverwalk. Services included grants/funding analysis, master planning, public involvement, design development, and stakeholder coordination. The grand opening for the project was last fall, and it was recently awarded the top cultural and recreation project in the Tampa Bay Area by the Regional Planning Council.

Bahama Village, Duval Street and Truman Waterfront Streetscape and Urban Design Standards, Key West, FL — Served as project manager. Kimley-Horn was selected by the City of Key West to lead community-based design charrettes to create a comprehensive set of streetscape and urban design standards to interconnect one of the world's most famous corridors, Duval Street, with the adjoining Bahama Village and Truman Waterfront Project. Services included facilitating community consensus on design components, and preparation of preliminary and final design documents for streetscape, roadway, and wayfinding elements for more than 30 blocks in historic Bahama Village.

North Shore Area Roadway Improvements, Miami Beach, FL — Served as program manager for landscape architectural design. The project included more than three miles of landscape and softscape improvements and required extensive coordination with FDOT to ensure that the design solutions met both the functional needs of the Department and the aesthetic needs of the City of Miami Beach and property owners. The project also included collaboration with a local artist on the design of a transit shelter/art wall anchoring a public park on the northern end of the project, as well as an oceanfront park and beach portals along the 20-block corridor. This $16.5-million project was recently completed and has set the stage for redevelopment in the corridor.

The Riverwalk at Kennedy Boulevard Plaza, Tampa, FL — Landscape architect. The Kennedy Boulevard Plaza will be the longest over-water segment of the Tampa Riverwalk and will serve as a gateway into the downtown core of Tampa. Two new parks, MacDill Park and Curtis Hixon Waterfront Park, will be linked by the plaza. The structure will also serve as a pathway to two of Tampa's downtown gems, the new Tampa Museum of Art and the new Glazer Children's Museum. Kimley-Horn is providing urban design and landscape architecture services for this exciting project.

Charlotte Harbor CRA Gateway and Harbor, Charlotte Harbor, FL — Served as team member providing urban design and engineering services in support of revitalization efforts on behalf of the Charlotte Harbor Community Redevelopment Agency. Kimley-Horn's first assignment was to prepare design documents and provide permitting services for the Harbor Walk project consisting of a pedestrian promenade and boardwalk connecting the east and west sides of Charlotte Harbor. The project utilizes the old US 41 bridge abutment for parking and promenade area creating a trailhead for the boardwalk which crosses a section of the Harbor shoreline going under the US 41 bridge. Upon completion the Harbor walk will extend approximately one mile from Chester Roberts Park to Bayshore Park.

Urban Lakefront and Economic Revitalization Study, Winter Haven, FL — Serving as landscape architect and public involvement specialist on the team providing urban planning, urban design, community consensus building, landscape architecture, economic development, and multi-agency coordination to create a redevelopment plan for the City's lakefronts. Techniques to interconnect the lakes with the rest of the community include enhancing street connections, extending the rails-to-trails bike path to the lakefront, creating pedestrian connections, and developing visual vistas.

Convention Center Urban District, Orlando, FL — Deputy project manager. Kimley-Horn has provided master planning, entitlement planning, urban design, civil engineering, and landscape architecture services for Thomas Enterprises, Inc., in support of the development of a 1,600-acre, mixed-use urban district adjacent to Orlando's Orange County Convention Center, the nation's second busiest convention center.

Stephen K. Seeley, P.S.M.
President
Gibbs Land Surveyors – Hollywood, FL

Education:
University of Miami
Coral Gables, FL, 1974

Registration:
Professional Surveyor and Mapper No. LS4574
State of Florida, 1988

Areas of Expertise:
Survey-Grade GPS
High Precision Control
Subdivision Surveying
Boundary & Topographic Surveying

Years Total: 35

Professional References:

1. Stephen Vrabel, P.S.M.
   954-868-1553

2. Douglas Taylor, P.E.
   954-796-2697

3. John Doogan, P.S.M.
   561-392-2594

Mr. Seeley has over 35 years of experience in the field of Land Surveying, including boundary and topographic surveying, subdivision construction layout, survey project management, field and office team management and special survey projects coordination for FDOT and SFWMD contracts. He has acquired most of his experience in Broward County and has over 20 years experience in the Hollywood area. Having a command of current technologies, he is well qualified in the use of survey-grade GPS and Digital Data Collection.

Relevant Experience:
Trimble Navigation Ltd. – Trained at Trimble, Sunnyvale California in the use of survey-grade, GPS, Carrier Phase Dual-Frequency Static, Real-Time Kinematic and Code Phase mapping technology.

Everglades National Park – "Hole-In-The-Donut" invasive species eradication project for the National Park Service. Precise Leveling and Real-Time Kinematic(RTK) GPS was used in the mapping of invasive plants, the topographic survey of the surface after removal and scrape-down, and the mapping of indigenous plant species.

City of Miami Beach – "Beachwalk" on South Beach – Location of dunes and vegetation using RTK GPS for the mapping and construction of boardwalk extensions and crossings.

South Florida Water Management District – Specific Purpose Survey for litigation support, including Expert Witness Testimony, Boundary Surveys of District-owned Parcels, Topographic and As-built Surveys of Water Control Structures.

Coral Ridge Properties – Boundary and Topographic Surveys for original subdivision layout, construction layout for roads and utilities. These subdivisions comprise all lands west of University drive, north of the C-14 canal and south of Royal Palm Drive in the City of Coral Springs.

City of Hollywood – Project Surveyor for various municipal and special projects – providing to the City and design/civil engineers survey data, (topographic and as-built formats) for water and sewer infrastructure and treatment plants. Providing to the City, as needed, Specific Purpose Surveys in various forms: As-built and Topographic Surveys of streets and alleys for utility and drainage improvements. (Currently providing horizontal and vertical as-built survey data for the Hollywood Beach Beautification Project.) Specific Purpose Surveys for beach improvements, meeting the requirements of Florida Department of Environmental Protection, prepared as Coastal Construction Line Surveys or Mean High Water Line surveys, utilizing topographic and hydrographic survey disciplines.

Coral Ridge Properties (continued) – Lands in the City of Coral Springs north of Wiles Road from Riverside Drive West to the Sawgrass Expressway – Topographic Survey of 3000 acres for subdivision design.

Broward County Expressway Authority - Control and Right-of-Way Surveying for construction of the Sawgrass Expressway. Post-Construction hydrographic and cross-sections of perimeter canals for litigation forensic study.

Florida Department of Transportation – Harrison Tract- Mitigation Banking – Topographic, As-built and Precise Leveling for a 200 acre crocodile habitat. Construction Monitoring and restoration mapping utilizing RTK GPS. Included in this project was topographic survey and lake soundings (hydrographic surveying) for fill quantity and forensic study.

Miami-Dade County Aviation Department – Provided high-precision control using Static GPS and various other GPS and Topographic services for Miami International and General Aviation airports.

National Oceanographic and Atmospheric Administration-(NOAA) – Established underwater survey-grade control for Mapping coral reef damage at Looe Key Coral Reef Preserve.

City of Coral Springs – Dells / Meadows Drainage Study Providing the City and its Civil Engineer full Topographic Survey data, including drainage structures, swales, roads, driveways and visible utilities – currently surveying individual "basins" or design segments on an as-funded basis. These two subdivisions are the oldest in the City, and the original storm water design is failing. The survey data is providing accurate horizontal and vertical data that can also benefit the City's GIS program, providing these current as-built conditions.

Stephen H. Gibbs, P.S.M.
Project Surveyor

Education:
Associate Degree in Architectural Design, Greenville, S.C. - 1973

Registration:
Professional Surveyor and Mapper No. LS4054
State of Florida, 1988

Professional Surveyor No. L3700
State of North Carolina 1994

Areas of Expertise:
Survey-Grade GPS
High Precision Control
Subdivision Surveying
Boundary & Topographic Surveying

Years Total: 35

Professional References:

1. Richard D. Pryce P.S.M.
   954-739-6400

2. Robert Wertz, P.E.
   954-921-3900

3. Chuck Buckalew, P.E.
   954-558-2289

Mr. Gibbs has over 35 years of experience in the field of Land Surveying, including boundary and topographic surveying, subdivision construction layout, survey project management, field and office team management. He has acquired most of his experience in Broward County and has 35 years experience in the Hollywood area. Having a command of current technologies, he is well qualified in the use of survey-grade GPS, Digital Data Collection and Autocad Automated Drafting.

Relevant Experience:

City of Hollywood – Project Surveyor for various municipal And special projects – providing to the City and esign/civil engineers survey data, (topographic and as-built formats) for water and sewer infrastructure and treatment plants. Providing to the City, as needed, Specific Purpose Surveys in various forms: As-built and Topographic Surveys of streets and alleys for utility and drainage improvements. (Currently providing horizontal and vertical as-built survey data for the Hollywood Beach Beautification Project.) Specific Purpose Surveys for beach improvements, meeting the requirements of Florida Department of Environmental Protection, prepared as Coastal Construction Line Surveys or Mean High Water Line surveys, utilizing topographic and hydrographic survey disciplines.

City of Hallandale Beach – Project Surveyor for various municipal and special projects – providing to the City and design/civil engineers survey data, (topographic and as-built formats) for water and sewer infrastructure and treatment plants. Providing to the City, as needed, Specific Purpose Surveys in various forms: As-built and Topographic Surveys of streets and alleys for utility and drainage improvements. Prepared the City of Hallandale Beach G.I.S. map of the entire city as well as monumenting and establishing boundaries of the entire city for aerial photography.

City of Sunrise – Providing to the City, as needed, Specific Purpose Surveys in various forms: As-built and Topographic Surveys of streets and alleys for utility and drainage improvements.

Other Municipalities – Project Surveyor for various municipal and special projects – providing to the City and design/civil engineers survey data, (topographic and as-built formats) for water and sewer infrastructure and treatment plants. Providing to the City, as needed, Specific Purpose Surveys in various forms: As-built and Topographic Surveys of streets and alleys for utility and drainage improvements.

Various Engineering Clients – Project Surveyor for various and special projects – providing survey data, (topographic and as-built formats) for water and sewer infrastructure and treatment plants. Providing, as needed, Specific Purpose Surveys in various forms: As-built and Topographic Surveys of streets and alleys for utility and drainage improvements.

PROJECT EXPERIENCE

City of Hollywood consulting Surveyor since 1988
Topographic survey of portion of Hollywood Boulevard, topographic survey of all parks within the city limits, topographic survey of Hollywood Beach for beach beautification, numerous parcel surveys for the City, etc.

City of Hallandale Beach consulting Surveyor since 1988
Topographic survey of various site for the City, topographic survey of various parks within the city limits, joint venture with the City of Hallandale Beach and Broward County to prepare a GIS map of the City, surveyed all the right-of-way lines within the City to overlay onto Aerial Photography of the City, etc.

Surveying Projects
Condominiums
Mortgage Surveys
Hydrographic Surveys
Utility Stake-out
Platting
Route Surveys
Elevation Surveys
Site Stake-out

Mark E. Berry, P.S.M.
Project Surveyor

Education:
University of Florida & Miami-Dade Community College – Surveying Courses

Registration:
Professional Surveyor and Mapper No. LS4283
State of Florida, 1986

Areas of Expertise:
Boundary & Topographic Surveys – Local historic survey knowledge – Underground utility Installation

Years Total: 35

Professional References:

1. Otis Keene, AT&T
   954-723-2540

2. Hank Coleas, AT&T
   954-476-2727

3. Mike Pickle, Florida Digital
   407-835-0341

Mr. Berry has over 34 years of Professional Surveying experience. A third generation surveyor, Mr. Berry has the unique distinction of being in a family that has been at the forefront of land development in the City of Hollywood since the 1930s. Obviously, his local historical knowledge is unsurpassed. For the past 20 years, he has applied his expertise in underground utility installations and is the Consulting Surveyor for the Broward County office of AT&T.

Relevant Experience:

Project Surveyor for the firm of M.E. Berry and Associates. Hand drafting and computer drafting of surveys. Field production of Boundary and Topographic Surveys, subdivision layout for construction, underground utility installation surveys.

Project surveyor, M.B.C. Consulting Services, Inc. Owner-Operator of this small business, Mr. Berry's primary client was Bell South. Exclusive surveyor for this Utility's Right-of-Way issues, the acquisition mapping and staking of facility installations, permitting sketches and construction sketches.

Project Surveyor, Stephen H. Gibbs Land Surveyors, Inc. Responsibilities include consultant for Bell South / AT&T Broward County facility locations, mapping and permitting of facility installations on an as-needed, per contract basis. Historic knowledge of 20 years of surveying for this utility have made Mr. Berry uniquely qualified to provide survey services on a timely and accurate basis.

City of Hollywood Consulting Surveyor since 1988 Topographic surveys of portions of Hollywood Boulevard, Topographic surveys of city parks, Topographic surveys of Hollywood Beach for beautification project, City Parcel Boundary Surveys, as needed.

City of Hallandale Beach Consulting Surveyor since 1988
Topographic surveys of various parcels and city parks, joint venture with the City and Broward County to produce a comprehensive GIS map for the City, surveyed all public Rights-of-way lines for production of controlled overlay of aerial photography.

Consulting Surveyor for AT&T Since 1988
Production of Topographic and Boundary surveys, Specific Purpose Surveys, field staking and CAD drafting, permit Sketches and Calculations for utility conflicts. Marking and surveying existing underground utilities for mapping and construction permitting.

Partial list of Projects:

Project Surveyor – Preparation of Condominium Documents

Project Surveyor – Broward County Erosion Control Line Survey – Hydrographic and topographic surveying.

Project Surveyor - Utility Staking for Bell South / AT&T

Project Surveyor - Private development construction staking

Project Surveyor – Record Plat Processing

Project Surveyor – Topographic and route surveys
Boundary Surveys
Hydrographic Surveys
Utility Stake-out
Platting
Elevation Certificate Surveys
Construction Stake-out

Geosyntec
consultants

DANIEL A. SCHAUER, P.G., L.E.P., C.I.E.

EDUCATION

B.S., Geology, University of Florida, Gainesville, Florida, 1984

REGISTRATIONS AND CERTIFICATIONS

Professional Geologist, Florida, #1240 / Texas, #5324 / Tennessee, #2080
INSTEP C.I.E./L.E.P. #61
40-Hour HAZWOPER training, in accordance with 29 CFR 1910.120(e) (with subsequent 8-hour refreshers)
8-Hour HAZWOPER Supervisor training, in accordance with 29 CFR 1910.120(e)
DOT Hazardous Materials Training, in accordance with 49 CFR 172.704
USACE Construction Quality Management for Contractors, July 2008

CAREER SUMMARY

Biscayne Commons Brownfields Redevelopment, North Miami Beach, FL. Mr. Schauer serves as project manager for all environmental and geotechnical consulting services performed at the landfill in support of redevelopment of the site as a retail shopping center (Biscayne Commons). The work performed in support of this $30-millon brownfields redevelopment project includes site improvement (dynamic compaction), Phase I ESA, landfill gas studies, evaluation of remedial technologies, and design and permitting services for foundation, stormwater, and landfill gas monitoring and management systems. He was also responsible for the oversight of a gas management system installation and monitoring at a shopping center. The system included the installation of 75,000 ft2 of 30-mil thick PVC geomembrane. A single-sided geocomposite and geotextile, as well as 45,000 ft2 of 60-mil thick spray applied asphalt geomembrane (SAG). Duties included managing the activities of six subcontractors and trades during construction. Responsibilities also included gas monitoring with a photo ionization detector to analyze for CO, H2S, O2 and %LEL at 12 gas probes, 29 sub-slab building sensors as well as oversight and sampling of groundwater monitoring wells. Mr. Schauer was responsible for authoring and co-authoring several deliverables including a detailed Site Assessment Report, Remedial Action Plan, Waste Relation Plan, Groundwater Monitoring Plan, Health and Safety Plan, and Air monitoring Plan. He was also responsible for interaction with the FDEP and Miami-Dade Department of Environmental Resource Management (DERM) regarding all environmental site assessment and development impact related issues. The 125,000 sf complex was completed in early 2004, and has received praise from local political and environmental agency leaders. Geosyntec is currently responsible for the ongoing groundwater and landfill gas monitoring and reporting activities at the site on behalf of the property owner.

Miami Dade County Department of Solid Waste Management, South Dade Landfill, Cell 5 Design and Permitting, Miami, FL. Mr. Schauer served as Principal-

in-Charge for the design and permitting of the 50-acre Cell 5 lateral expansion that included: (i) hydrogeologic and geotechnical field investigations and preparation of hydrogeologic/geotechnical report; (ii) performing geotechnical foundation analysis; (iii) evaluation of stormwater control system alternatives for the overall SDLF; and (iv) design of liner and leachate collection systems, preparation of design and permit drawings, technical specifications, and CQA plans for the substantial modification permit application for the expansion of the SDLF. The expansion concepts underwent rigorous value engineering to optimize environmental protection, operational efficiency, and long-term sustainability.

Miami Dade County Department of Solid Waste Management, South Dade Landfill, Cell 3 Closure, Miami-Dade County, FL. Mr. Schauer served as Project Manager for the $6M closure construction of a 50-acre Class I municipal solid waste (MSW) disposal cell at the County's largest MSW Landfill. The project included the installation of a gas management system including 37 gas/leachate well pairs and abandonment of 20 existing gas wells. The closure system included the installation of over 4,000,000 square feet of geosynthetics (nonwoven geotextile, 40-mil thick smooth and textured LLDPE geomembrane and geocomposite). The responsibilities of the project included review contractor bids, contractor submittal review and approval, construction quality assurance, field and laboratory geotechnical testing and reporting for FDEP compliance.

Vista Class III Landfill, Cell 2, Apopka, Orange County, FL. Mr. Schauer served as Project Manager for the CQA activities during the $1.25M construction of this 10-acre Class III landfill expansion. The liner system construction included installation of 500,000 ft2 of 60-mil thick textured HDPE geomembrane. Mr. Schauer was responsible for managing all aspects of the liner system construction including the geotechnical and geosynthetic laboratory conformance testing programs as well as the review contractor bids, contractor submittal review and approval, construction quality assurance, field and laboratory geotechnical testing and reporting for FDEP compliance.

North Central Resource Recovery Facility (NCRRF), Class III, Cell 6 Expansion, Solid Waste Authority, Palm Beach County, FL. Mr. Schauer served as Project Manager for CQC services during the thirteen acre Class III landfill expansion which included construction of a composite liner system. Responsibilities included management of CQC monitoring and testing services as subcontractor to Westinghouse Remediation Services (WRS) of Tampa, Florida. Services included CQC laboratory conformance testing of geosynthetics including nonwoven geotextile, geonet, GCL, and 1,940,000 ft2 (180,225 m2) of 60-mil (1.5-mm) thick HDPE geomembrane, granular protective cover soil, leachate collection systems, and shell road base.

North Central Resource Recovery Facility, Class I MSW Cell 7 & 8 Expansion, Solid Waste Authority, Palm Beach County, FL. Mr. Schauer served as Project Manager for CQC services during the twenty-two acre Class I landfill expansion which included construction of a composite double liner system. Responsibilities included management of CQC monitoring and testing services as subcontractor to Kimmins Contracting Corporation of Lantana, Florida. Services included monitoring and on-site laboratory testing of leak detection and leachate collection systems, soils and geosynthetics including nonwoven geotextile, geonet, GCL HDPE piping, manholes and 1,940,000 ft2 (180,225 m2) of 60-mil (1.5-mm) thick HDPE geomembrane.

Geosyntec
consultants

JUAN QUIROZ, Ph.D., P.E. **waste containment facility planning and design**
geotechnical infrastructure / foundation engineering

EDUCATION

Ph.D., Civil Engineering, Rensselaer Polytechnic Institute (RPI), Troy, New York, 2000
M.S., Civil Engineering, Rensselaer Polytechnic Institute, Troy, New York, 1997
B.S., Civil Engineering, Texas A&M University, College Station, Texas, 1994

REGISTRATIONS AND CERTIFICATIONS

Professional Engineer, Florida, Registration No. 65275
40 Hour OSHA - Health & Safety Training

CAREER SUMMARY

Northwest Transfer Station Soil Preload and Foundation Stsem Design, Hillsborough County, FL. Dr. Quiroz is the project manager, lead designer and engineer-of-record for the design of a roadway soil pre-load, scale house pile foundation system and landfill gas mitigation system beneath the scale house building. The proposed roadway alignment and scale house will be located on the footprint of the closed landfill at the site. The specialized geotechnical analyses performed by Dr. Quiroz account for the difficult site conditions imposed by the existing waste in the subsurface profile.

Landfill Siting, Design and Permitting, North Manatee Recycling & Disposal Facility, Class III, Manatee County, FL. Dr. Quiroz was the engineer-of-record for the siting, design and permitting of the approximately 115-acre "greenfield" landfill development project. Engineering services included a hydrogeological and geotechnical site investigation, landfill cell and storm water management system design, FDEP environmental resource and solid waste permitting, and responses to regulatory comments. The new disposal facility provided the client with new disposal capacity for approximately 32 years.

Karst Terrain Site Assessment & Landfill Site Feasibility Study, Sumter County, FL. Dr. Quiroz was the technical lead for a karst terrain site assessment to evaluate subsurface conditions and sinkhole potential for a proposed landfill site. The field investigation consisted of a coupled geophysical and geotechnical drilling program that included: (i) electrical resistivity imaging (ERI); and (ii) Standard Penetration Test (SPT) soil borings. Based on the results of the ERI testing and SPT soil borings, a refined conceptual geological model was developed for the investigation area that established the surface and condition of the limestone within the landfill footprint. Subsequently the proposed landfill footprint was adjusted to avoid areas of concern relative to karst features and foundation improvement strategies were developed for critical areas.

Conceptual ERP Major Modification, J.E.D. Solid Waste Management Facility, Osceola County, FL. Dr. Quiroz was the technical lead for preparation of a conceptual

ERP major modification application and design of a storm water management system for the JED facility. The storm water management system for the site was expanded to accommodate an approximately 100-acre landfill lateral expansion. Both dry and wet detention areas were expanded and designed to retain a 100-year, 72-hour design storm event.

Major Solid Waste Permit Modification, Vista Landfill, Class III, Apopka, Orange County, FL. Dr. Quiroz was the lead landfill designer for a major permit modification associated with a Class III landfill. The major permit modification was based on the implementation of a liner and leachate collection system for the previously permitted 102 acre unlined landfill. Dr. Quiroz developed a Construction Quality Assurance (CQA) Plan and technical specifications to construct the proposed liner and leachate collection system at the landfill facility, and subsequently served as the engineer-of-record for cell construction.

Gas Mitigation System Design, Joe DiMaggio Sport Complex, City of Clearwater, FL. Dr. Quiroz is the lead designer and engineer-of-record for the design of a landfill gas mitigation system and protection plan for a concession and restroom building sited near an old landfill area. The landfill gas mitigation system consists of a geomembrane vapor barrier and a passive gas venting system beneath the foundation of the building.

Closure Systems Options Evaluation, North Central Landfill, Polk County, FL. Dr. Quiroz was the technical lead for the development of a closure systems options report that addressed potential closure options for the Class I (Phases I and II) and Class III landfill units at North Central Landfill. The closure options report considered factors such as closure (design, permitting and construction) costs, current landfill operations, ease of FDEP solid waste permitting, and the site's master plan for future landfill development. Polk County used the closure options report as a decision-making tool, as well as the basis for a pre-application meeting with FDEP.

Closure Design and Permitting, Keene Road Landfill, Class III, Apopka, Orange County, FL. Dr. Quiroz was the lead designer for a retro-fit closure system design associated with a Class III landfill facility. The closure system design incorporated a transitional geomembrane cover system that accommodates an existing geosynthetic clay liner (GCL) cover system along the contiguous portion of a previously closed landfill area. In addition, the landfill side slopes were re-designed to minimize additional cut and fill requirements needed to achieve permitted grades. The cover system design consists of using a 50-mil studded geomembrane overlain by a geotextile on the side slopes and a 40-mil geomembrane on the top slopes. Dr. Quiroz was also the engineer-of-record for the closure construction project.

AFFILIATIONS

American Society of Civil Engineers/Geo-Institute (ASCE/G-I)
Solid Waste Association of North America (SWANA)

Geosyntec
consultants

KWASI BADU-TWENEBOAH, Ph.D., P.E.

geotechnical engineering
landfill design/permitting
solid waste management

EDUCATION

Ph.D., Geotechnical Engineering, University of Florida, 1987
M.S., Geotechnical Engineering, Arizona State University, 1984
B.S., Civil Engineering, University of Science & Technology, Kumasi, Ghana, 1979

REGISTRATIONS AND CERTIFICATIONS

P.E., Alabama, No. 19120
P.E., Arkansas, No. 9061
P.E., Kentucky, No. 21119
P.E., Ohio, No. E-55354
NCEES Council Record No. 9369
P.E., Arizona, No. 27061
P.E., Florida, No. 42460
P.E., Nevada, No. 09797
P.E., Tennessee, No. 103348

CAREER SUMMARY

Solid Waste Engineering and Landfill Gas Related Services, Escambia County, FL. Project Director and Technical Reviewer for the design and permitting effort of multiple landfill gas related projects at this county-operated facility including: evaluation of the existing gas collection and control system (GCCS) to provide recommendations for immediate repairs and upgrades; design of a temporary GCCS header system to keep gas extraction wells active while a waste mining operation is ongoing; and design of a GCCS expansion including over 30 new gas extraction wells, associated lateral and header piping and a new blower-flare station that is interconnected to a third party landfill gas to energy facility. Other services provided included permitting support services to obtain Title V Air Construction and Title V Air Operation permits for the projects described above.

Indian River County Class I Landfill Design, Permitting, and Construction Support Services, Vero Beach, FL. Program manager for multiple designs, permitting, and construction support services projects at the Indian River County Landfill facility in Vero Beach, Florida from 2005 to present. He has provided the following services: (i) design and permitting of 76-acre Class I landfill lateral and vertical expansion that provided the County with approximately 13.6 million cubic yards of additional disposal capacity, and thereby extend the life of the facility by approximately 27 years; (ii) construction management (CM) and QA/QC services for the construction of a 11-acre cell in 2012-2013; (iii) CM and QA/QC services for the construction of the vertical expansion and partial closure and borrow pit development at the landfill facility in 2009-2010; (iv) design and permitting of a vertical expansion over the closed top slopes of a Class I landfill in 2006; the vertical expansion extended the life of the facility for more than four years, worth about $20 million, and provided the County the additional airspace to replace the airspace that was filled up with debris from the active 2004-05 hurricane seasons in 2005-2006; (v) design and permitting of a 34-acre lateral expansion for the Class I Landfill in 2008; this included preparing a landfill consolidation report on a feasibility study of, and recommendation for, co-disposal of C&D debris and MSW in a lined Class I landfill, eliminating construction and operation of unlined C&D disposal facilities; (vi) assisted the County in obtaining FDEP approval to use a cost-effective alternative sand material for

completing the drainage layer on the remaining side slopes of the permitted liner system for the Class I landfill, which alone saved the County about $200,000 compared to the cost of purchasing and delivery of the originally-specified material in 2006; and (vii) design and permitting of a partial closure, and upgrade and expansion of the gas collection and control system (GCCS) for the Class I Landfill in 2008-2009.

South Dade Landfill Cell 5 Expansion, Miami-Dade County, FL. Program manager for expansion design and permitting of the 50-acre Cell 5 at Miami-Dade County's South Dade Class I Landfill. Geosyntec had intimate knowledge of the project site, having overseen construction quality assurance (CQA) programs for expansion and closure of more than two thirds of the disposal area. The project was designed and permitted to comply with the revised Florida Department of Environmental Protection (FDEP) Chapter 62-701 solid waste regulations effective January 6, 2010. The tasks completed included: (i) preparing the hydrogeologic and geotechnical investigation report; (ii) performing geotechnical stability analyses; (iii) evaluating stormwater control system alternatives; (iv) designing the liner and leachate collection systems, including evaluating the performance of the liner system design using the USEPA's "Hydrologic Evaluation of Landfill Performance of Landfill" computer model; (iv) preparing the design of a conceptual landfill gas management system; and (v) preparing design drawings, technical specifications, and CQA plans for the permit application. The expansion concepts underwent rigorous value engineering to optimize environmental protection, operational efficiency, and long-term sustainability. The FDEP issued a permit for the facility less than 3 months upon submittal.

Bees Ferry Landfill (BFL) Facility Design Services, Charleston, SC. Engineer-of-Record and Task Manager for the permit modification and preparation of the airspace management for the BFL facility, owned and operated by Charleston County. The permit modification consisted of changing the fill sequence of cell construction/operation for the active lined MSW (Class 3) landfill in order to allow the County enough time to use the mulch stockpile within the footprint of Cell 3 as daily cover material for the landfill. The permit modification request was approved by the South Carolina Department of Health and Environmental Control. The airspace management report was prepared for the active Class 3 landfill as well as C&D (Class 2) landfill at the facility. The report included calculations for the overall and remaining airspace volumes, in-place waste density (i.e., airspace utilization factor), and overall and remaining site life for each landfill using the latest topographic map of the facility.

JED Solid Waste Management Facility, Osceola County, FL. Project manager and engineer-of-record for the preparation of Title V Air Operation Permit and Air Construction permit modification applications as part of the overall lateral and vertical expansion of the JED Solid Waste Management Facility in Osceola County, Florida. He also served as the engineer-of-record for the preparation of construction documents, procurement support for the partial closure and GCCS for Phase 1 of the landfill facility. He also served as the CQA engineer-of-record for the Phase I construction of the GCCS that includes: (i) installation of header pipe; (ii) installation of a condensate management system; (iii) construction of 29 vertical gas extraction wells; and (iv) installation of a flare/blower system. Dr. Badu-Tweneboah also prepared quarterly gas migration monitoring reports and Landfill Gas Compliance Monitoring and Maintenance Plan for the facility.

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
8 East Tower Circle
Ormond Beach, FL 32174

Phone: 386.672.5668
Fax: 386.673.4001

CHRISTINA RASCHKE
PROJECT MANAGER

EDUCATION

Master of Physical Therapy (Nova Southeastern University, Fort Lauderdale, FL)
B.S. in Biology (Nova Southeastern University, Fort Lauderdale, FL)

EXPERIENCE

Christina Raschke has joined Pace Analytical Services, Inc. with the acquisition of XENCO Laboratories in July 2011. Ms. Raschke was a Project Manager for XENCO Laboratories and Genapure Analytical Services from 2008 until the merger with Pace Analytical. Ms. Raschke has been in the Environmental Laboratory field since April of 2006 and brings 2 years of hands-on experience including supervisory position in the laboratory and 3 years of Client Services/Project Manager experience with her. Ms. Raschke's responsibilities include:

- Responsible for the coordination and tracking of tasks, schedules, and deliverables for projects related to environmental analysis, compliance, permitting, remediation, etc.
- Generate & review reports, invoices & deliverables prepared by team before submitting to client
- Responsible for preparation and submittal of specified reporting formats, such as EDDs, ADaPT, Drinking Water Forms, etc.
- Effectively enforce project standards
- Minimize risks on projects
- Ensure project documents are complete, current, and stored appropriately
- Manage day-to-day client interaction
- Develop lasting relationships with client personnel that foster client ties

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
8 East Tower Circle
Ormond Beach, FL 32174

Phone: 386.672.5668
Fax: 386.673.4001

TERRENCE ANDERSON
OPERATIONS MANAGER, POMPANO BEACH

EDUCATION

BS Environmental Studies (Florida International University)
AS Environmental/Agricultural (Science College of Agriculture Science & Education)

EXPERIENCE

Mr. Anderson joined Pace through an acquisition in 2011. As Client Services Manager his main role is to serve as liaison between laboratory personnel and clients to ensure effective project management, ensuring the laboratory is meeting customers' turnaround time and their project specifications, including reporting limits and QA/AC requirements. His responsibilities include:

- Prepare and sign environmental laboratory reports for industrial and commercial customers
- Coordinate environmental sampling, provide technical support to customers
- Supervise project managers
- Assign project managers for new customers
- Prepare special EDD reports including ADaPT
- Point of contact between clients and laboratory
- Perform technical review of projects for clients
- Address customers concerns

Prior to working at Pace Analytical he worked as a senior project manager at KSA environmental laboratory, and supervised the field staff and sample custody departments. From 2004-2007 Mr. Anderson worked as a pollution control inspector for Miami Dade County Department of Environmental Resources Management (DERM). At the County I inspected permitted facilities to ensure they are operating within their permit requirements, review permit applications, identify sources of environmental pollution, analyze and interpret annual emission reports, conduct site inspections and initiate enforcement actions where there are permit violations.

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
8 East Tower Circle
Ormond Beach, FL 32174
Phone: 386.672.5668
Fax: 386.673.4001

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 colormetric 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.

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
8 East Tower Circle
Ormond Beach, FL 32174

Phone: 386.672.5668
Fax: 386.673.4001

BOB DEMPSEY
GENERAL MANAGER, FLORIDA

EDUCATION

B.S., Chemistry, Minor Biology (University of Pittsburgh, 1998)

EXPERIENCE

Mr. Dempsey has been a lab manager in the environmental industry since 2003. Mr. Dempsey is responsible for the direction and coordination of the daily activities for 50+ staff scientists, administrative personnel and service technicians at the company's Florida operations. He is responsible for maintaining project management oversight and direction in conjunction with corporate sales directives and goals, and he provides guidance and direction to the laboratory's Quality Assurance staff in conjunction with corporate goals, EPA guidelines, NELAC guidelines, and various other state and federal guidelines.

Prior to assuming the position of General Manager with Pace, Mr. Dempsey has over 20 years of environmental analytical laboratory experience includes over eight years at the analytical bench in the organic laboratory. He is knowledgeable and proficient in a number of analytical protocols, including: GC, GC-MS, HPLC instrumentation and organic prep utilizing SW-846 and NCASI methods. He has also served and as a laboratory manager for over 7 years of his tenure in the environmental field, he has been able to assist a wide variety of clients through the laboratory analytical processes and their related regulatory, quality control and financial issues, often identifying alternative approaches that ensure project data quality and turnaround times are met and that expenses are minimized.