

RFQ # 946-11300

Fort Lauderdale Executive Airport Sustainability Management Plan



SUBMITTED TO **City of Fort Lauderdale**

SUBMITTED BY

VHB *Vanasse Hangen Brustlin, Inc.*

IN ASSOCIATION WITH

ACAI Associates, Inc.

Erin Dedy Law

KB Environmental Sciences, Inc.

Kimley-Horn and Associates, Inc.

MARCH 18, 2014

EXHIBIT 4
14-0706
Page 1 of 86

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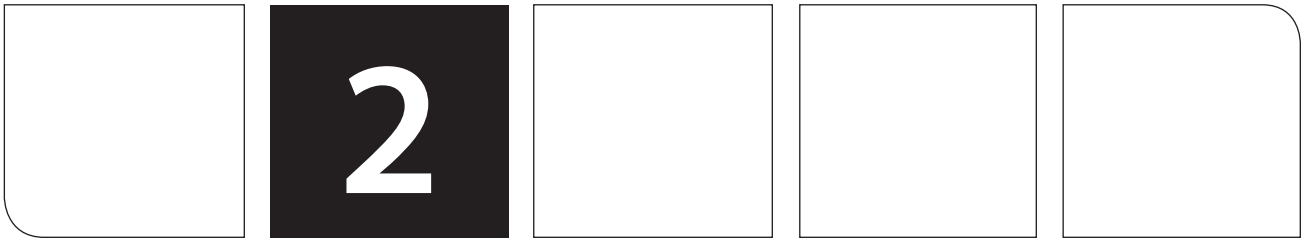
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Letter of Interest



Planning
Land Development
Transportation
Environmental

225 E. Robinson Street,
Suite 300
Orlando, FL 32801

407.839.4006
FAX 407.839.4008

March 17, 2013

Ronald Archey, Procurement Specialist
Procurement Services Division
Fort Lauderdale City Hall
100 N. Andrews Avenue, 6th Floor
Fort Lauderdale, Florida 33301

Re: Request for Qualifications for Fort Lauderdale Executive Airport Sustainability Management Plan

Dear Mr. Archey:

The Vanasse Hangen Brustlin/VHB Team offers heartfelt congratulations to the City of Ft. Lauderdale on your selection and significant award of a Federal Aviation Administration (FAA) grant to conduct a Sustainability Management Plan. The City needs a consultant team with the proven sustainability planning experience to advance its vision for Ft. Lauderdale Executive Airport (FXE) to guide future sustainable development and operation of the Airport.

The VHB Team is committed to efficiently delivering an actionable Sustainability Management Plan for the City to implement at FXE.

The VHB Team's airport sustainability planning and design experience stretches from Florida to San Francisco Bay, and throughout the country. This national experience, augmented by our experience in commercial and municipal markets, places us squarely as leaders in airport sustainability planning. VHB's exemplary work on the Ithaca Tompkins Regional Airport Sustainable Master Plan, the Northeast Florida Regional Airport at St. Augustine Sustainability Plan, and our Sustainable Aviation Guidance Alliance (SAGA) contributions, formed the basis for the FAA's Sustainable Master Plan Pilot Program. Additionally, the VHB Team has completed sustainability plans and designs at airports in Nashville, Philadelphia, San Francisco, Boston, Newburgh (NY), and is actively providing sustainability planning leadership for airports in Salt Lake City (UT), Niagara Falls (NY), Quad City (IL), State College (PA), and Madison (WI).

The VHB Team includes hand-picked partners with a track record of experience in South Florida and at FXE to serve the City's unique needs. **Kimley Horn & Associates** will provide engineering expertise to develop a sustainable design criteria manual for the Airport. **ACAI Associates** will explore the most innovative and cost effective energy efficiency measures for FXE facilities, assist in the development of the sustainable design criteria manual, and serve a key role in collecting data and information for the sustainability baseline assessment. **KB Environmental Sciences** will conduct complex air quality and greenhouse gas (GHG) emissions inventories and identify reasonable strategies for the Airport to reduce its emissions. Finally, **Erin Deady, PA, AICP, LEED AP** will serve in the role of Regulatory and Funding Strategies Specialist. Ms. Deady is familiar with integration of the Southeast Florida Regional Climate Action Plan into local sustainability plans, and has secured over \$6 million in grant funding for energy, economic development and sustainability client projects and programs.

The VHB team will be led by Project Manager **Ben Siwinski, CM, ENV SP** who has a proven track record of successfully completing airport sustainability plans nationwide. Ben combines his strong background in airport and environmental planning with a demonstrated understanding of the value that sustainability planning provides in the future development of an airport. He has educated the airport industry by establishing and leading the Sustainability Task Force for the Florida Airports Council (FAC) and earned the organization's 2011 Corporate Eagle Award for his efforts.

FIRM'S LEGAL NAME:

Vanasse Hangen Brustlin, Inc.

POINTS OF CONTACT INFORMATION:

Project Manager

Ben Siwinski, CM, ENV SP

Telephone: (407) 965-0517

Fax: (407) 839-4008

E-mail: bsiwinski@vhb.com

Deputy Project Manager

Autumn Young Ward, CM, ENV SP

Telephone: (407) 965-0532

Fax: (407) 839-4008

E-mail: award@vhb.com

The VHB Team's approach will be to use the framework of the City's Sustainability Action Plan (Update 2011) while considering the Airport's latest Strategic Business Plan and Master Plan Update with the following key aspects:

Develop a Sustainability Strategy Tailored to FXE. Every airport has its own unique geographic and political environment, tenants and stakeholders, and management structures. Although we have developed a successful framework for sustainability plans that has been highlighted by FAA in its Report on the Sustainable Master Plan Pilot Program and Lessons Learned¹, we recognize that the Airport's focus areas will include waste minimization, energy and emissions reduction and integration of sustainability into long-term airport development through the use of a Sustainable Design Criteria Manual.

Provide Practical Information and Recommendations. The VHB Team understands that a plan is only useful if it provides tools for decision-makers and operators to determine appropriate actions and implement recommendations. The sustainability initiatives identification process will be greatly enhanced by establishing an Airport Sustainability Committee at FXE that includes decision-makers from various departments in the organization. VHB had great success uncovering potential sustainability initiatives at Northeast Florida Regional, Nashville International and Dane County Regional Airports, by giving voice to representatives from various parts of an airport organization and stakeholder groups.

Showcase Sustainability Efforts. A key lesson learned in preparing many sustainability plans is that airports are doing more than they think in terms of managing facilities in a sustainable manner. The City has implemented very impressive initiatives at FXE in relation to community outreach, sustainable building design, and airfield construction waste recycling. This Sustainability Management Plan can elevate the Airport's communication efforts by fully integrating the baseline assessment and plan implementation effort into a Sustainability Highlights section of the Airport's website, as we did for San Francisco International and Nashville International Airports.² Showcasing on-going sustainability efforts and FXE's plan for continuous improvement will demonstrate its commitment to the public, local decision-makers and permitting agencies.

This major sustainability planning effort will allow the City to lead the Airport's continuous evolution of its processes and facilities—and serve as an industry leader. Thank you for this opportunity to present our qualifications and we look forward to collaboration with such a forward-thinking client to enhance the efficiency and long-term sustainability of FXE. Please contact Project Manager Ben Siwinski at (407) 965-0517 or bsiwinski@vhb.com, if you have any questions.

Sincerely,



Carol Lurie, LEED AP, AICP, ENV SP
Principal/Senior Sustainability Advisor

VHB IS A LEADER IN SUSTAINABILITY PLANNING THROUGHOUT THE STATE OF FLORIDA . . .

- Northeast Florida Regional Airport (St. Augustine) Sustainability Management Plan
- Florida Airports Council (FAC) Sustainability Task Force, founder and leader
- City of Orlando Community Sustainability Plan
- City of West Palm Beach Sustainability Action Plan
- City of DeLand Strategic Energy Plan
- Town of Century Strategic Energy Plan
- Municipal Energy Conservation Coalition (Palm Beach County)
- Monroe County Sustainability Action Plan, Monroe County, FL

. . . AND WE LOOK FORWARD TO BRINGING OUR EXPERIENCE TO FT. LAUDERDALE EXECUTIVE AIRPORT!

¹ <http://www.faa.gov/airports/environmental/sustainability/media/SustainableMasterPlanPilotProgramLessonsLearned.pdf>

² <http://www.flysfo.com/community-environment/environmental-sustainability-reports>; https://www.flynashville.com/about/Documents/Nashville_IntlAirport_SustainabilityStudy_2012HR.pdf

BID/PROPOSAL SIGNATURE PAGE

How to submit bids/proposals: Proposals must be submitted by hard copy only. It will be the sole responsibility of the Bidder to ensure that the bid reaches the City of Fort Lauderdale, City Hall, Procurement Services Division, Suite 619, 100 N. Andrews Avenue, Fort Lauderdale, FL 33301, prior to the bid opening date and time listed. Bids/proposals submitted by fax or email will NOT be accepted.

The below signed hereby agrees to furnish the following article(s) or services at the price(s) and terms stated subject to all instructions, conditions, specifications addenda, legal advertisement, and conditions contained in the bid. I have read all attachments including the specifications and fully understand what is required. By submitting this signed proposal I will accept a contract if approved by the CITY and such acceptance covers all terms, conditions, and specifications of this bid/proposal.

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

Submitted by: Michael Carragher (signature) March 17, 2014 (date)

Name (printed) Michael J. Carragher Title: Southeast Regional Manager

Company: (Legal Registration) Vanasse Hangen Brustlin, Inc.

CONTRACTOR, IF FOREIGN CORPORATION, MAY BE REQUIRED TO OBTAIN A CERTIFICATE OF AUTHORITY FROM THE DEPARTMENT OF STATE, IN ACCORDANCE WITH FLORIDA STATUTE §607.1501 (visit <http://www.dos.state.fl.us/>).

Address: 225 E. Robinson Street, Suite 300, Orlando, FL 32801

City Orlando State: FL Zip 32801

Telephone No. 407.839.4006 FAX No. 407.839.4008 Email: mcarragher@vhb.com

Delivery: Calendar days after receipt of Purchase Order (section 1.02 of General Conditions): 365

Payment Terms (section 1.04): _____ Total Bid Discount (section 1.05): _____

Does your firm qualify for MBE or WBE status (section 1.09): MBE _____ WBE _____

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

<u>Addendum No.</u>	<u>Date Issued</u>
Addendum #1	02/27/14

VARIANCES: State any variations to specifications, terms and conditions in the space provided below or reference in the space provided below all variances contained on other pages of bid, attachments or bid pages. No variations or exceptions by the Proposer will be deemed to be part of the bid submitted unless such variation or exception is listed and contained within the bid documents and referenced in the space provided below. If no statement is contained in the below space, it is hereby implied that your bid/proposal complies with the full scope of this solicitation. **HAVE YOU STATED ANY VARIANCES OR EXCEPTIONS BELOW? BIDDER MUST CLICK THE EXCEPTION LINK IF ANY VARIATION OR EXCEPTION IS TAKEN TO THE SPECIFICATIONS, TERMS AND CONDITIONS.** If this section does not apply to your bid, simply mark N/A in the section below.

Variances:
See Below

revised 11-29-11

VHB has reviewed the proposed terms and condition vis a vis VHB's insurance policies solely for the purpose of ensuring that all contract provisions are insurable and notes the following exception. Under Section 11.11.5, Professional Liability/Errors and Omissions Coverage, the deductible is not to exceed \$100,000. VHB's insurance deductible is \$500,000, which is typical of professional service firms VHB's size. The City of Fort Lauderdale will be included as an additional insured under a blanket additional insured endorsement, which will be noted on the insurance certificate. However, with respect to the required endorsements under section 11.11.2 B., employees included as insured, broad form contractual liability, premises/operations, products/completed operations, and independent contractors are included as part of the policy language, rather than endorsements. This can also be noted on the insurance certificate.

VHB assumes it is in the best interest of all parties to have a fully insurable contract, and that only slight modifications will be needed to ensure that the parties benefit from a fully insurable contract, and is hopeful that you will consider making minor edits if VHB is awarded a contract.

State of Florida

Department of State

I certify from the records of this office that VANASSE HANGEN BRUSTLIN, INC. is a Massachusetts corporation authorized to transact business in the State of Florida, qualified on May 14, 1987.

The document number of this corporation is P14454.

I further certify that said corporation has paid all fees due this office through December 31, 2014, that its most recent annual report/uniform business report was filed on January 8, 2014, and its status is active.

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

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Eighth day of January, 2014*

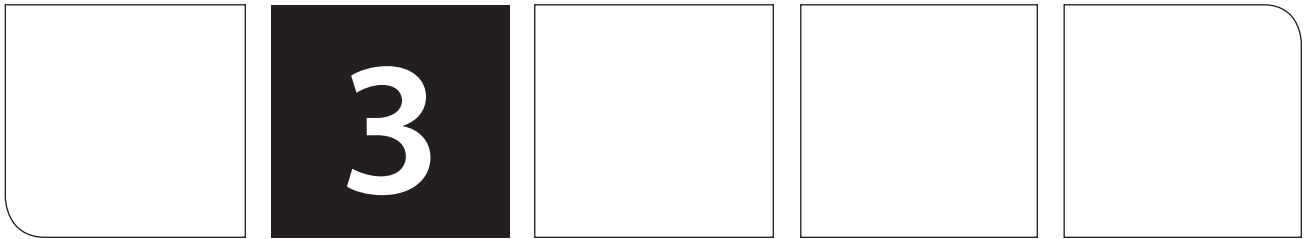


Ken Detjmer
Secretary of State

Authentication ID: CC8679873290

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

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



Qualifications of the Firm

3

Qualifications of Firm

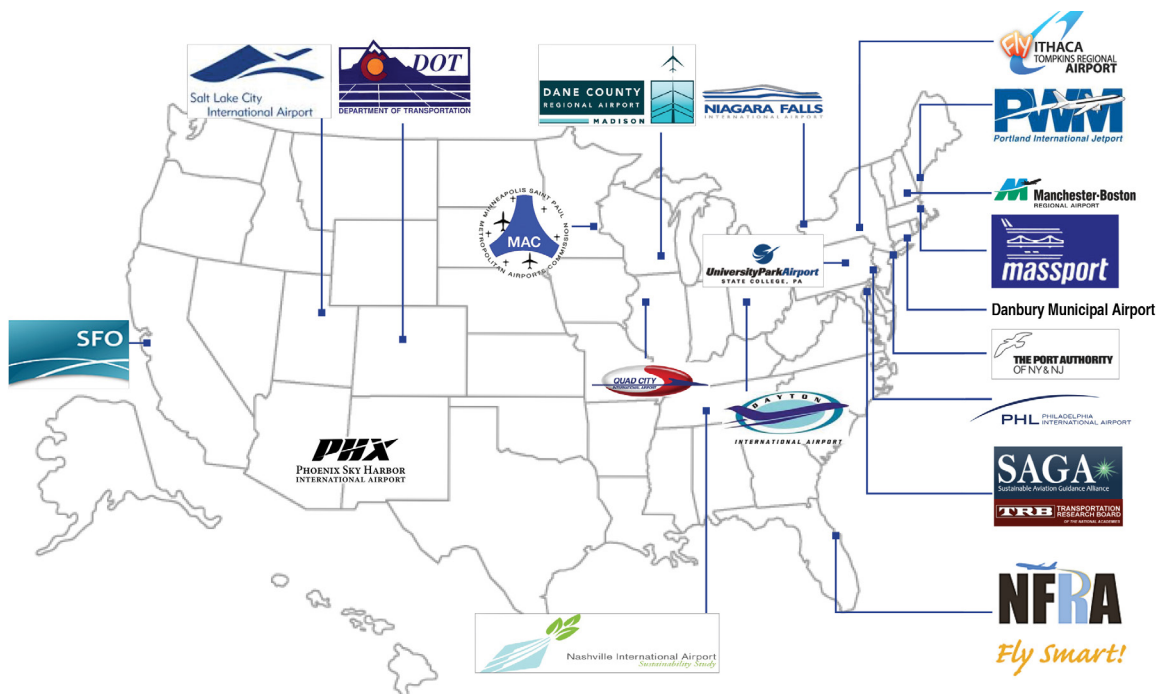


Vanasse Hangen Brustlin, Inc. (VHB), a corporation established in 1979, provides integrated planning, transportation, land development, and environmental services and employs over 900 professionals in 22 offices from Maine to Florida. Premier industry publication Engineering News-Record ranks VHB 78th of the Top 500 Design Firms nationwide, and the firm is a frequent recipient of project awards and recognition for engineering and environmental excellence, design, and smart growth planning. VHB delivers innovative and pragmatic solutions in the following areas: aviation planning, engineering, and operations; civil design; environmental permitting, analysis, and restoration; landscape architecture; land surveying; planning/ urban design; structural engineering; sustainability planning; and traffic, parking, rail/transit, and bicycle/pedestrian services.

Sustainability Planning

VHB is a leader and innovator in the sustainable planning and design of environmental, transportation, and infrastructure systems. Our firm works directly with airports to develop sustainability strategies that reduce environmental impacts, enhance community relations, and are practical and cost-effective for airport operators and tenants. We develop best management practices to create a sustainable future for airports through measuring and quantifying airport performance and setting targets for energy use and air emissions.

VHB is an active participant in the FAA's Sustainable Master Plan Pilot Program. Our firm helped prepare the FAA's first-ever sustainable master plan and sustainable management plan at Ithaca-Tompkins Regional Airport and Northeast Florida Regional Airport, respectively, and we have performed sustainability planning at airports across the U.S. as well as London. The FAA's sustainability planning guidance is based upon VHB's work and lessons learned in the sustainability planning efforts around the country. To date, VHB has participated in 10 FAA funded sustainability planning efforts, and is actively involved in the FAA's waste management guidance working group.



VHB has performed sustainability planning at airports across the U.S. as well as London.



VHB is a national thought leader in aviation planning, policy, and research through our involvement with the Airport Cooperative Research Program, and our staff holds leadership positions with the Airports Council International, Airport Consultants Council, and American Association of Airport Executives. VHB professionals are members of TRB Committee AVO30 on the Environmental Impacts of Aviation, and are presently leading and/or participating in *Airport Sustainability Practices: Tools for Evaluating, Measuring, and Implementing* (ACRP 02-28), *Enhancing the Airport-Industry SAGA Website* (ACRP 02-30), and *Assessing the Operations and Maintenance Impacts of Sustainability Initiatives* (ACRP 09-06). Our staff also contributed to the *Guidebook of Practices for Improving Environmental Performance at Small Airports* (ACRP Report 43).



Visit http://www.vhb.com/pdf/2007_CSR_Brochure_small.pdf to view our Corporate Social Responsibility Brochure.

Corporate Commitment to Sustainability

Sustainable design is the new paradigm for everything we do. Since our founding in 1979, VHB has been a leader and innovator in the sustainable planning and design of systems: transportation systems, infrastructure systems, and environmental systems. Our interdisciplinary approach integrates engineering, planning, and science, allowing us to create comprehensive, cost-effective solutions to contemporary development challenges. VHB professionals are skilled at addressing design issues across a broad range of scales and contexts: from regional to site specific, from urban to rural, and encompassing institutional, commercial, residential, and natural environments.

Importantly, the culture of our company is generational, where we seek to sustain a high level of professional practice and mentorship across generations, encouraging professional and personal development while instilling a sense of social responsibility toward the communities in which we live, work, and play.

SF 330

As requested in the RFQ, the following pages include our SF 330 form. SF 330 resumes are provided in Section 4, Qualifications of the Project Team.

ARCHITECT - ENGINEER QUALIFICATIONS

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION (City and State) **Fort Lauderdale Executive Airport Sustainability Master Plan
Fort Lauderdale, FL**

2. PUBLIC NOTICE DATE
02/20/14

3. SOLICITATION OR PROJECT NUMBER
RFQ # 946-11300

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE **Ben Siwinski, Senior Airport Planner/Project Manager**

5. NAME OF FIRM **Vanasse Hangen Brustlin, Inc.**

6. TELEPHONE NUMBER
407.839.4006

7. FAX NUMBER
407.839.4008

8. E-MAIL ADDRESS
bsiwinski@vhb.com

C. PROPOSED TEAM

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

	(Check)			9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	J-V PARTNER	SUBCONTRACTOR			
a.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vanasse Hangen Brustlin, Inc. <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	225 E. Robinson Street, Suite 300 Landmark Center Two Orlando, FL 32801	Project Management, Sustainability Planning Lead, Energy, Resiliency, Water Quality, Airport Operations and Procedures, FAA Coordination
b.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Kimley-Horn and Associates, Inc. <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	1920 Wekiva Way, Suite 200 West Palm Beach, FL 33411	Sustainable Design Criteria Manual, Baseline Assessment Data Collection
c.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	ACAI Associates, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	2937 West Cypress Creek Road, Suite 200 Fort Lauderdale, FL 33309	Architecture, Sustainable Design Criteria Manual, Baseline Assessment Data Collection
d.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	KB Environmental Sciences, Inc. DBE/WBE <input type="checkbox"/> CHECK IF BRANCH OFFICE	9500 Koger Blvd., Ste. 211 St. Petersburg, FL 33702	Air Quality/GHG, Hazardous Materials
e.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Erin Deady Law WBE <input type="checkbox"/> CHECK IF BRANCH OFFICE	1111 Hypoluxo Road, Suite 207 Lantana, FL 33462	State and Local Regulatory/ Legislative Issues, Regional GHG Planning Coordination
f.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> CHECK IF BRANCH OFFICE		
g.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> CHECK IF BRANCH OFFICE		

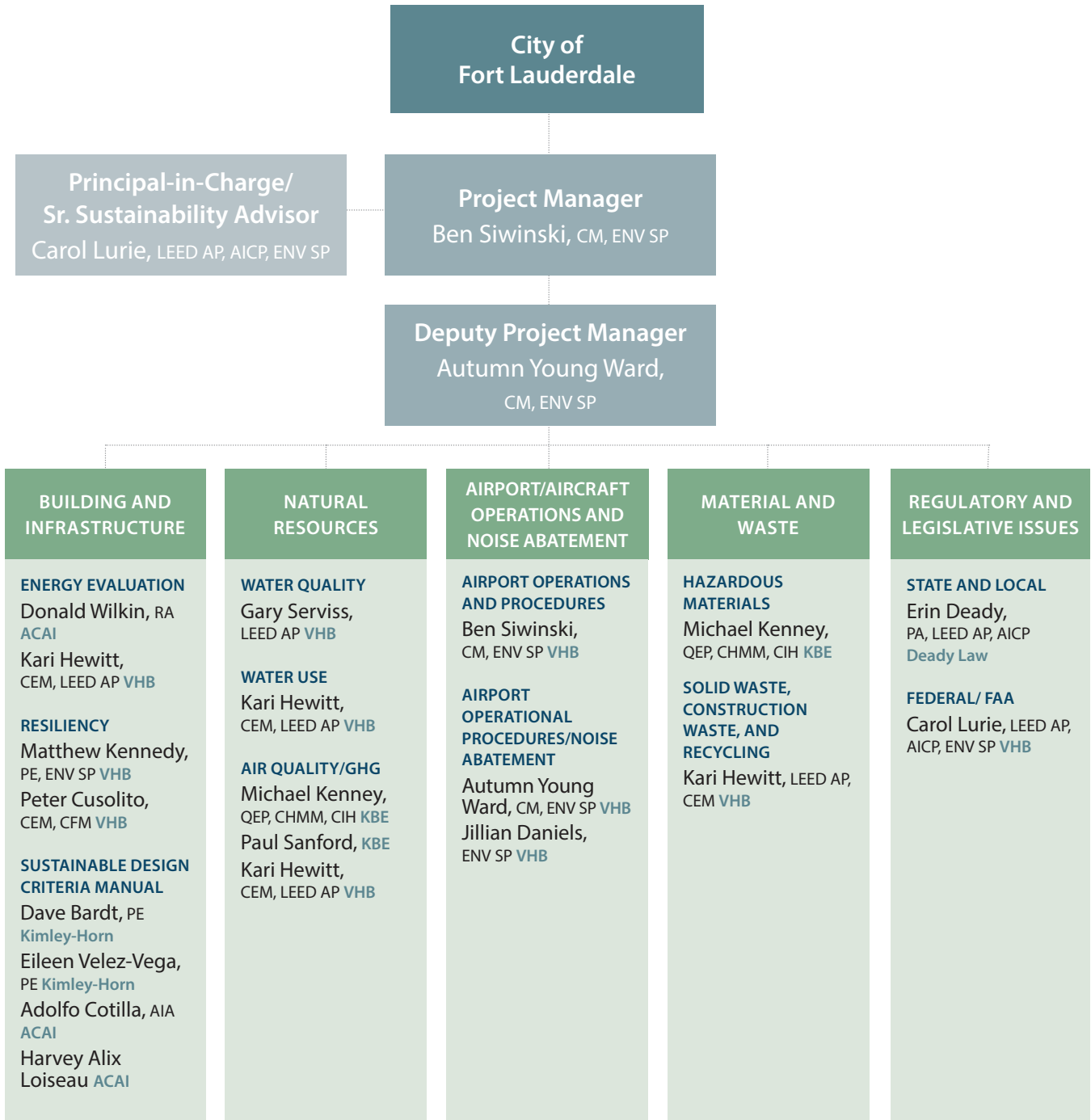
D. ORGANIZATION CHART OF PROPOSED TEAM

AUTHORIZED FOR LOCAL REPRODUCTION

(Attached)

MANDATORY USE DATE OF FORM 6/2004

D. Organization Chart of Proposed Team



ACAI ACAI Associates, Inc.
Deady Erin Deady Law
KBE KB Environmental Sciences, Inc.
Kimley-Horn Kimley-Horn and Associates, Inc.

Please see Section 4 for team resumes in the SF 330 format.

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. Example Project Key Number

1

21. Title and Location <i>(City and State)</i> Dayton International Airport Sustainability Master Plan; Dayton, OH	22. Year Completed	
	Professional Services Ongoing	Construction (if applicable)

23. Project Owner's Information

a. Project Owner City of Dayton Department of Aviation	b. Point of Contact Name Mike Cross, Environmental Scientist	c. Point of Contact Telephone Number 937.454.8226
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24. Brief Description of Project and Relevance to This Contract *(Include scope, size, and cost)*

VHB was retained by the City of Dayton's Department of Aviation to prepare a Sustainability Master Plan for Dayton International Airport. The plan consists of developing a sustainability mission/vision statement, goals and objectives, a baseline assessment, and convening and guiding an Airport Sustainability Committee through the process of formulating a process for considering sustainability in future airport operations and decision-making. A key piece of the plan includes the development of a sustainable land management tool to determine the greenhouse gas (GHG) emission changes associated with conversion of non-aeronautical lands from agricultural use to prairie grasslands. Development of the tool was conducted with input from the local Audubon Society, a unique partnership in the airport industry. The plan also includes the development of sustainable design and construction standards for the Airport. KBE worked with VHB to develop an air quality and GHG emissions inventory, and to identify air quality pollutant and GHG-related emissions reductions measures.



VHB Fee: \$180,000

25. Firms from Section C Involved with This Project

a.	(1) Firm Name VHB	(2) Firm Location <i>(City and State)</i> Orlando, FL	(3) Role Lead Sustainability Planning Consultant
b.	(1) Firm Name KBE	(2) Firm Location <i>(City and State)</i> St. Petersburg, FL	(3) Role Air Quality and GHG Specialist
c.	(1) Firm Name	(2) Firm Location <i>(City and State)</i>	(3) Role
d.	(1) Firm Name	(2) Firm Location <i>(City and State)</i>	(3) Role
e.	(1) Firm Name	(2) Firm Location <i>(City and State)</i>	(3) Role
f.	(1) Firm Name	(2) Firm Location <i>(City and State)</i>	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. Example Project Key Number

2

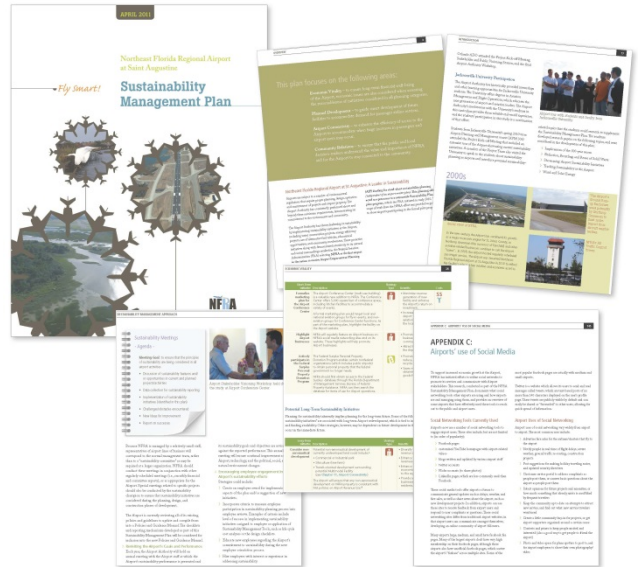
21. Title and Location <i>(City and State)</i> Northeast Florida Regional Airport (NFRA) at St. Augustine Sustainability Management Plan; St. Augustine, FL	22. Year Completed	
	Professional Services 2011	Construction (if applicable)

23. Project Owner's Information

a. Project Owner St. Augustine-St. Johns County Airport Authority	b. Point of Contact Name Edward Wuellner, AAE, Executive Director	c. Point of Contact Telephone Number 904.209.0090
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24. Brief Description of Project and Relevance to This Contract *(Include scope, size, and cost)*

The St. Augustine-St. Johns County Airport Authority selected VHB as part of team to prepare a Sustainability Management Plan for the NFRA. This plan became an example to FAA's approach to incorporating sustainability into airport planning and was the first standalone sustainability plan to be funded by an FAA Airport Improvement Program (AIP) planning grant. The planning process used was incorporated into FAA's Interim Guidance for sustainability planning.



VHB provided sustainability technical leadership in guiding this active General Aviation airport with major corporate tenants to establish a sustainability vision for the airport and identify sustainability goals and objectives. VHB conducted a baseline assessment that documented the airport's resource consumption, and determined the current status of sustainability initiatives, including the development of a brochure and website material to promote the Airport's current sustainability initiatives. VHB worked with the airport to understand how various sustainability initiatives can be integrated into operations and maintenance procedures, as well as planning and administration. KBE worked with VHB to develop an air quality and GHG emissions inventory, and to identify air quality pollutant and GHG-related emissions reductions measures.

The resulting Plan provided a roadmap to implement and monitor its sustainability program, as well as annually report on its performance improvements.

VHB Fee: \$145,695

25. Firms from Section C Involved with This Project

	(1) Firm Name	(2) Firm Location <i>(City and State)</i>	(3) Role
a.	VHB	Orlando, FL	Lead Sustainability Planning Consultant
b.	KBE	St. Petersburg, FL	Air Quality and GHG Specialist
c.			
d.			
e.			
f.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. Example Project Key Number

3

21. Title and Location <i>(City and State)</i> Niagara Falls International Airport Sustainable Master Plan; Niagara Falls, NY	22. Year Completed	
	Professional Services Ongoing	Construction (if applicable)

23. Project Owner's Information

a. Project Owner Niagara Frontier Transportation Authority (NFTA)	b. Point of Contact Name Mark Clark, Senior Aviation Planner	c. Point of Contact Telephone Number 716.630.6133
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24. Brief Description of Project and Relevance to This Contract *(Include scope, size, and cost)*

VHB is responsible for the sustainability component of the master plan update at Niagara Falls International Airport. As part of this process, VHB assessed baseline sustainability performance in the areas of energy, waste management and recycling, natural resources, community engagement and employee well-being, and water use. Soliciting input from the airport advisory committee and the airport's managing transportation authority, NFTA, VHB is developing a sustainability vision and goals specific to NFIA.

VHB is also developing candidate sustainability initiatives to help the airport meet its sustainability goals. These initiatives will focus on maximizing the economic benefits of sustainability. KBE worked with VHB to develop an air quality and GHG emissions inventory, and to identify air quality pollutant and GHG-related emissions reductions measures.

VHB Fee: \$114,280



25. Firms from Section C Involved with This Project

a.	(1) Firm Name VHB	(2) Firm Location <i>(City and State)</i> Orlando, FL	(3) Role Lead Sustainability Planning Consultant
b.	(1) Firm Name KBE	(2) Firm Location <i>(City and State)</i> St. Petersburg, FL	(3) Role Air Quality and GHG Specialist
c.	(1) Firm Name	(2) Firm Location <i>(City and State)</i>	(3) Role
d.	(1) Firm Name	(2) Firm Location <i>(City and State)</i>	(3) Role
e.	(1) Firm Name	(2) Firm Location <i>(City and State)</i>	(3) Role
f.	(1) Firm Name	(2) Firm Location <i>(City and State)</i>	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. Example Project Key Number

4

21. Title and Location <i>(City and State)</i> San Francisco International Airport Sustainability Plan; San Francisco, CA	22. Year Completed	
	Professional Services Ongoing	Construction (if applicable)

23. Project Owner's Information

a. Project Owner City and County of San Francisco	b. Point of Contact Name Houshang Esmaili, Project Manager, San Francisco International Airport	c. Point of Contact Telephone Number 650.821.3632
--	---	--

24. Brief Description of Project and Relevance to This Contract *(Include scope, size, and cost)*

San Francisco International Airport (SFO) has established itself as an international industry leader in sustainability, which has resulted in the implementation of proactive and innovative initiatives to reduce the airport's carbon footprint and achieve environmental gains in all areas. SFO selected VHB to take its sustainability achievements to the next level by developing a comprehensive Sustainability Plan with an ambitious set of Plan Elements that will further propel the Airport into the sustainability spotlight.



VHB is completing the first phase of the Sustainability Plan development, which includes the preparation of the following Plan Elements:

- **Sustainable Water Quality Enhancement.** The VHB Team reviewed the operations of SFO's Mel Leong Treatment Plant, the wastewater collection systems, and the stormwater management system to identify opportunities for enhanced efficiency and sustainability. The final report, submitted to SFO in November 2012, identifies and prioritizes recommendations for further development at SFO.
- **Sustainable Noise Abatement.** The VHB Team analyzed noise abatement practices in order to optimize the tradeoff between noise impacts and air emissions, seeking to minimize both, wherever possible. The Final Report communicates the interdependencies between environmental effects and operational factors for various flight tracks, and presents recommendations for alternate flight tracks, where further optimization is possible.
- **Sustainability Guidelines for Planning, Design, and Construction.** The VHB Team is developing Guidelines so that sustainability is incorporated at each stage of the planning, design, and construction process. To this end, the project team developed a concise, online- viewable document that outlines existing codes and targets that all projects should comply with, as well as recommended tools and project processes to be incorporated into future projects.
- **Building Automation System for SFO's Terminal Complex.** The VHB Team is evaluating the potential for the automation and optimization of the Heating, Ventilation, and Cooling (HVAC) and electric lighting systems across the entire Terminal Complex.

The remaining Plan Elements that will be developed as part of future phases of work include:

- Sustainable Energy Procurement
- Sustainable Materials Procurement
- Sustainable Equipment Procurement
- Climate Change Adaptation
- Sustainable Air Quality Enhancement
- Employee Environmental Sustainability
- Enterprise Sustainability (for Airlines, Aviation Management, Concessionaires, Passengers, etc.)

VHB Fee: \$311,526

25. Firms from Section C Involved with This Project

a.	(1) Firm Name VHB	(2) Firm Location <i>(City and State)</i> Watertown, MA	(3) Role Prime Consultant
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. Example Project Key Number

5

21. Title and Location <i>(City and State)</i> Stewart International Airport Sustainability Plan; Hudson Valley, NY	22. Year Completed	
	Professional Services 2010	Construction (if applicable)

23. Project Owner's Information

a. Project Owner Port Authority of New York and New Jersey	b. Point of Contact Name Ed Knoesel, Manager, Environmental Services	c. Point of Contact Telephone Number 212.435.3747
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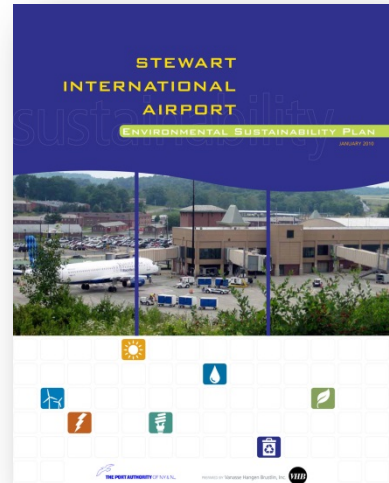
24. Brief Description of Project and Relevance to This Contract *(Include scope, size, and cost)*

Located 60 miles north of Manhattan in the Hudson Valley, Stewart International Airport (SWF) is part of the Port Authority of New York and New Jersey. The Port Authority's goal is for SWF to become their first Carbon Neutral Airport. To help them move toward their goal, the Port Authority retained VHB to produce the first sustainability plan for a Port Authority Airport.

VHB was responsible for developing a sustainability baseline assessment for SWF that described the environmental context and key environmental issues on site and in the surrounding area. A detailed tenant survey was part of the data collection process. The baseline consists of current rates of resource consumption, and an inventory of existing systems and procedures at the Airport relating to environmental sustainability.

The next step in the process toward developing a Sustainability Plan was to establish sustainability goals and objectives for SWF, evaluating various sustainability initiatives based on multiple criteria such as cost and environmental benefit, and developing an implementation strategy that includes milestones, responsibilities, and tracks performance.

The Final SWF Sustainability Plan addressed environmental, economic, and social aspects of sustainability at SWF. VHB provided detailed electric vehicle infrastructure recommendations on the landside for passenger parking facilities, and on the airside to support the electrification of aircraft ground service equipment. The Plan includes both short-term sustainability strategies as well as strategies for future consideration. To supplement the Sustainability Plan, VHB prepared an implementation plan to assist the airport in achieving their sustainability goals and to provide a way to track their achievements through performance monitoring.



VHB Fee: \$139,596

25. Firms from Section C Involved with This Project

	(1) Firm Name	(2) Firm Location <i>(City and State)</i>	(3) Role
a.	VHB	New York, NY	Prime Consultant
b.			
c.			
d.			
e.			
f.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. Example Project Key Number

6

21. Title and Location <i>(City and State)</i> Nashville International Airport Sustainability Study and Plan; Nashville, Tennessee	22. Year Completed	
	Professional Services 2012	Construction (if applicable)

23. Project Owner's Information

a. Project Owner Metropolitan Nashville Airport Authority	b. Point of Contact Name Christine Vitt, PE, Assistant Vice President— Construction & Environmental,	c. Point of Contact Telephone Number 615.275.1783
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24. Brief Description of Project and Relevance to This Contract *(Include scope, size, and cost)*

Nashville International Airport (BNA) is one of the Mid-South region's leading economic generators, serving more than 10 million passengers annually in over 70 markets. In 2012, the Metropolitan Nashville Aviation Authority (MNA) selected VHB to conduct a Sustainability Study for BNA and incorporate it into its concurrent Master Plan Update process. The Airport was one of ten nationwide selected by the Federal Aviation Administration (FAA) for inclusion in the Agency's pilot program for funding and conducting airport sustainability plans.

The planning process for this sustainability plan consisted of two phases and set the groundwork for improvement over time.

Phase 1 focused on establishing sustainability goals and objectives based on the airport's current performance, activities, and resource consumption, then identifying initiatives to help MNA meet those goals. Phase 2 focused on developing a sustainability strategy, which included a framework for implementation and continual improvement through monitoring and reporting, as well as sustainability performance targets to help the airport make regular progress towards achieving its sustainability goals. The reporting process is structured to ensure continual improvement by revisiting goals and objectives at each reporting interval, and re-evaluating performance through ongoing tracking.

As part of FAA's pilot program for airport sustainability planning, the study will serve as a model for the FAA to understand and develop guidance for developing sustainability plans at airports across the country. KBE worked with VHB to develop an air quality and GHG emissions inventory, and to identify air quality pollutant and GHG-related emissions reductions measures.

VHB Fee: \$180,077



25. Firms from Section C Involved with This Project

	(1) Firm Name	(2) Firm Location <i>(City and State)</i>	(3) Role
a.	VHB	Orlando, FL	Prime Consultant
b.	KBE	St. Petersburg, FL	Air Quality and GHG Specialist
c.			
d.			
e.			
f.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. Example Project Key Number

7

21. Title and Location <i>(City and State)</i> Transportation Research Board Airport Cooperative Research Program Projects; Nationwide	22. Year Completed	
	Professional Services Various	Construction (if applicable)

23. Project Owner's Information		
a. Project Owner Transportation Research Board	b. Point of Contact Name See Below	c. Point of Contact Telephone Number See Below

24. Brief Description of Project and Relevance to This Contract *(Include scope, size, and cost)*

VHB is a national thought leader in aviation sustainability planning, policy, and research through our involvement with the Airport Cooperative Research Program on several projects as noted below.

ACRP Project 02-28: Airport Sustainability Practices, Nationwide (Ongoing). VHB is leading a research team to conduct the Airport Cooperative Research Program (ACRP) Project 02-28: Airport Sustainability Practices – Tools for Evaluating, Measuring, and Implementing. This research will develop a tool to help airports evaluate and select sustainability best practices, given an airport's unique priorities and constraints. In addition, the research report includes development of a prototype rating system to gauge airport sustainability performance. VHB is conducting extensive outreach to airport stakeholders. This stakeholder outreach has gathered input from more than 400 individuals, including airport staff of all levels, government agencies, consultants, tenants, and other organizations. The VHB Team is currently revising the framework for the prototype airport sustainability rating system based on comments received by the industry.
Contact: Joseph Navarrete, (202) 334-1649; Cost: \$600,000

ACRP Project 02-30: Enhancing the Airport-Industry SAGA Website, Nationwide (Ongoing). The Sustainability Aviation Guidance Alliance (SAGA) was a broad volunteer coalition of aviation interests formed in 2008 to assist airport operators of all sizes in planning, implementing, and maintaining sustainability programs. The SAGA initiative compiled a database of over 1,000 sustainability measures, successfully implemented at national and international airports. VHB was selected as part of a team to update the SAGA website and associated database of sustainability measures for airports.
Contact: Joseph Navarrete, (202) 334-1649; Cost: \$500,000

ACRP Project 02-13/Report 43: Guidebook for Improving Environmental Performance, Nationwide (2011). VHB was retained as part of a team to produce the Guidebook of Practices for Improving Environmental Performance at Small Airports, which promotes environmental awareness, identifies federal environmental compliance requirements, outlines practices that proactively enhance environmental stewardship, and identifies resources/tools that small airports can use to proactively meet environmental regulations. VHB staff researched and compiled a comprehensive list of environmental stewardship activities applicable to small airports, developed an evaluation framework to determine the applicability of any environmental stewardship strategy to any small airport, and conducted national interviews with small airports that have shown environmental leadership to inform the guidebook's recommendations. Contact: Marci Greenberger, (202) 334-1371; Cost: \$200,000

ACRP Project 09-06: Evaluating Impacts of Sustainability Practices on Airport Operations and Maintenance, Nationwide (Ongoing). VHB is part of a research team that is developing an evaluation process and cost benefit tool (EP&CBT) to evaluate the day-to-day operations and maintenance (O&M) impacts of implementing sustainability practices at airports. Day-to-day airport O&M includes those functions and activities performed by facility O&M staff that routinely keep the facilities operating and in good condition, such as maintaining buildings, grounds, utilities, pavement and equipment, operating public spaces such as terminal roadways/curbs, passenger terminal lobbies and bag claim areas, and operating non-public secured areas such as baggage handling areas, aircraft aprons, taxiways, runways, and landscapes included within airport perimeter fencing. Consideration is given to water conservation, energy, waste management, consumables and materials and alternative fuels. The tool will be targeted for use by facility O&M staff and airport groups that establish sustainability policy.
Contact: Marci Greenberger, (202) 334-1371; Cost: \$300,000.

25. Firms from Section C Involved with This Project			
a.	(1) Firm Name VHB	(2) Firm Location <i>(City and State)</i> Watertown, MA and Orlando, FL	(3) Role 02-28 (Prime) 02-30 (Subconsultant) 02-13 (Subconsultant) 09-06 (Subconsultant)
a.	(1) Firm Name KBE	(2) Firm Location <i>(City and State)</i> Tampa, FL	(3) Role 02-13 (Subconsultant)

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. Example Project Key Number

8

21. Title and Location <i>(City and State)</i> General Consulting Services at Tallahassee Regional Airport (TLH); Tallahassee, FL	22. Year Completed	
	Professional Services 2011 (design); DRI ongoing	Construction (if applicable)

23. Project Owner's Information		
a. Project Owner Tallahassee Regional Airport	b. Point of Contact Name David Pollard	c. Point of Contact Telephone Number 850.891.7815

24. Brief Description of Project and Relevance to This Contract *(Include scope, size, and cost)*

Kimley-Horn served as a general engineering consultant for TLH from 2006 to 2011. As one of three consultants available to the Airport, PIE has consistently turned to KHA for their most critical projects, including airside design and landside transportation.

Old Terminal and North Apron. Kimley-Horn provided design and construction phase services for the rehabilitation of the old terminal and North Apron at TLH. The project included rehabilitation of an existing 13.7-acre apron; phasing of construction to allow continuing operation of the fixed-base operation (FBO) facilities located on the apron; and the rubblization of 6.4 acres of an existing 16-inch-thick concrete apron to allow its reuse as base course. This approach minimized construction costs, as well as reduced time for construction. This sustainable approach also reduced the amount of waste material being hauled from the site, the amount of virgin material needed for the project, and the amount of hydrocarbons emitted during construction of the project. Upon completion, the project won the FAC Environmental Award for Air Carrier Airports. Firm fee: \$395,000; construction completed May 2010.

Taxiways Mike, Zulu, and Sierra. The project included the design of a new run-up pad and three new helicopter pads, as well as the rehabilitation of several existing helicopter pads, the removal of existing asphalt pavement, new pavement base construction, pavement widening, asphalt and concrete paving, surface rejuvenation, earthwork and grading, drainage improvements, airfield lighting and signage, and pavement markings. The project also included the design of new Taxiway Mike bypass, which will extend and connect Taxiways Papa and Alpha, and the design of the pavement rehabilitation of Taxiways Zulu, Sierra, Juliet, Kilo, taxiway connectors, and the service road adjacent to Taxiway Zulu. Design completed 2009; firm fee: \$424,631; project cost: \$6.5 million.

South Apron Overlay. Kimley-Horn provided design and construction phase services for the rehabilitation of the South Apron Overlay at TLH. The project included rehabilitation of an existing 14.9-acre apron. The project included phasing of construction to allow continuing operation of the FBO facility located on the apron, as well as access to a hangar used by the state of Florida to house the Governor's aircraft. The project included the recycling in place of 7.7 acres of existing surface and base course as a new base course. This approach minimized construction costs, as well as reduced the construction time. This sustainable approach also reduced the amount of waste material being hauled from the site, the amount of virgin material needed for the project, and the amount of hydrocarbons emitted during construction of the project. Completed 2008 (design); firm cost: \$99,981.

Airport Pavement Management System. Kimley-Horn prepared a pavement management system for all Airport-maintained airside and landside pavements at TLH. The project included a field inspection of the pavements to determine the pavement condition index for each segment and development of a pavement management program based upon pavement condition and preferred maintenance procedures for the Airport. The system was used to develop a Capital Improvement Program projecting the need and budget costs for rehabilitation in future years. It is positioned as a pavement management tool, updated periodically for changes in condition due to rehabilitation, maintenance completion, and pavement aging. The system allows updates to the CIP due to changes in priorities and revisions to projected maintenance procedures and costs. Airport personnel will be trained during the project to monitor pavement condition and update the database. Firm fee: \$273,529.

Development of Regional Impact (DRI) Services. On the landside, Kimley-Horn has provided transportation planning services, including traffic analysis and assisted the Airport in reallocating trips within their DRI to allow continued development of Airport property for revenue production. The project allowed fixed-based operations (FBOs) on the Airport the flexibility they needed to adapt their businesses to meet the needs of the aviation industry. Now completed, the Airport has decided to move forward with a substantial deviation to their DRI to further allow development. Kimley-Horn will be providing full DRI services, including environmental, stormwater, transportation, and other DRI tasks.

25. Firms from Section C Involved with This Project		
a. (1) Firm Name Kimley-Horn and Associates, Inc.	(2) Firm Location <i>(City and State)</i> West Palm Beach, FL	(3) Role Project Management; Construction Phase Services

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. Example Project Key Number

9

21. Title and Location <i>(City and State)</i> Broward County Airports Planning Services; Fort Lauderdale Aviation Department	22. Year Completed	
	Professional Services 2013	Construction (if applicable)

23. Project Owner's Information

a. Project Owner Broward County Aviation Department (BCAD)	b. Point of Contact Name Greg Detmer	c. Point of Contact Telephone Number 617.994.4351
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24. Brief Description of Project and Relevance to This Contract *(Include scope, size, and cost)*

The 21st century airport terminal is a passenger service and technology hub that is in constant motion. Within the terminal, various activities and convenience services are provided to travelers who have increasing needs for less stressful and more satisfying traveling experiences. Terminal spaces must be designed to function more efficiently and serve travelers more effectively. This requires the airport terminals to be optimized in their design and performance as well as integrated as seamlessly as possible with the processes that are carried out in the day to day functions of the Terminal.

Working with the prime consultant, ACAI was chosen to provide continuing Planning and Design services for the Broward County Aviation Department. Work includes the development of Design Guidelines for Fort Lauderdale - Hollywood International Airport.

The scope of services included the production of Design Standards for the Terminal Areas of Fort Lauderdale International Airport. The goal of these standards is to establish a general direction for all future development of the Terminal areas; create descriptive criteria regarding appearance, cost and maintenance goals; establish a format for the Guidelines, and establish a process for the implementation of the Guidelines.



25. Firms from Section C Involved with This Project

	(1) Firm Name	(2) Firm Location <i>(City and State)</i>	(3) Role
a.	ACAI Associates, Inc.	Fort Lauderdale, FL	Planning, Design, Design Guidelines
b.	(1) Firm Name	(2) Firm Location <i>(City and State)</i>	(3) Role
c.	(1) Firm Name	(2) Firm Location <i>(City and State)</i>	(3) Role
d.	(1) Firm Name	(2) Firm Location <i>(City and State)</i>	(3) Role
e.	(1) Firm Name	(2) Firm Location <i>(City and State)</i>	(3) Role
f.	(1) Firm Name	(2) Firm Location <i>(City and State)</i>	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. Example Project Key Number

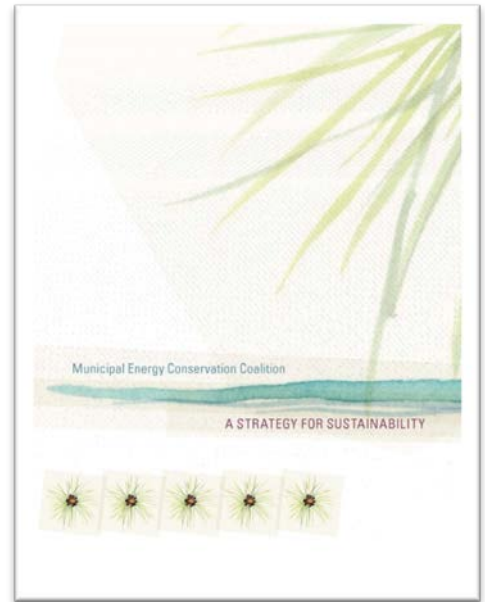
10

21. Title and Location <i>(City and State)</i> Municipal Energy Conservation Coalition; Town of Lantana, Haverhill, Ocean Ridge, Palm Beach Shores and City of Atlantis, FL	22. Year Completed	
	Professional Services 2013	Construction (if applicable)

23. Project Owner's Information		
a. Project Owner Town of Lantana	b. Point of Contact Name David Thatcher	c. Point of Contact Telephone Number 561.540.5032

24. Brief Description of Project and Relevance to This Contract *(Include scope, size, and cost)*

Ms. Deady spearheaded an effort to create a coalition of 5 cities in Palm Beach County to pursue a \$1.238 Million grant through the Florida Energy and Climate Commission. The grant approach included a citywide greenhouse gas emissions inventory for all 5 participating municipalities (Lantana, Haverhill, Ocean Ridge, Palm Beach Shores and the City of Atlantis), development of an overall energy conservation strategy that includes reductions of greenhouse gas emissions, and investment grade energy audit of city facilities and buildings, a transportation strategy to reduce greenhouse gas emissions, and a building code strategy to reduce energy use from existing and new buildings and homes. The strategy also included an educational component to allow the cities to increase energy conservation awareness and provide tools and resources for citizens and businesses to complete energy conservation projects. The work also included reviewing and incorporating appropriate projections and recommendations from the Southeast Regional Climate Compact and Ms. Deady also drafted comments from all five (5) municipal partners on the Compacts Draft Regional Climate Action Plan which was later finalized in 2013. The strategy includes a partnership with FP&L, 1,000 Friends of Florida and Radio Green Earth, a non-profit environmental green radio program on the local NPR affiliate. Ms. Deady created the grant strategy, wrote the grant, secured the partnerships, coordinated all data required for the grant submittal and secured support from Treasure Coast Regional Planning Council. The Projects were completed in July 2012.



In furtherance of this grant, Ms. Deady also secured \$391,851.00 of grant funds from Palm Beach County for 4 of the cities to complete energy retrofit projects on their municipal Halls and facilities.

25. Firms from Section C Involved with This Project			
a.	(1) Firm Name Erin Deady Law	(2) Firm Location <i>(City and State)</i> Lantana, FL	(3) Role Lead Project Manager
b.	(1) Firm Name VHB	(2) Firm Location <i>(City and State)</i> Watertown, MA	(3) Role Subconsultant
c.	(1) Firm Name	(2) Firm Location <i>(City and State)</i>	(3) Role
d.	(1) Firm Name	(2) Firm Location <i>(City and State)</i>	(3) Role
e.	(1) Firm Name	(2) Firm Location <i>(City and State)</i>	(3) Role
f.	(1) Firm Name	(2) Firm Location <i>(City and State)</i>	(3) Role

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL
(From Section E, Block 12)

27. ROLE IN THIS CONTRACT
(From Section E, Block 13)

28. EXAMPLE PROJECTS LISTED IN SECTION F
(Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)

		1	2	3	4	5	6	7	8	9	10
VHB											
Carol Lurie	Principal-in-Charge/ Sr. Sustainability Advisor		X	X	X	X	X	X			
Ben Siwinski	Project Manager	X	X	X	X		X	X			
Autumn Young Ward	Deputy Project Manager	X	X	X	X		X	X			
Kari Hewitt	Energy Evaluation; Solid Waste, Construction Waste, and Recycling	X									X
Matthew Kennedy	Resiliency										
Peter Cusolito	Resiliency										
Gary Serviss	Water Quality										
Jillian Daniels	Airport Operational Procedures/ Noise Abatement	X						X			
Kimley-Horn											
Dave Bardt	Sustainable Design Criteria Manual								X		
Eileen Velez-Vega	Sustainable Design Criteria Manual								X		
ACAI											
Donald Wilkin	Energy Evaluation									X	
Adolfo Cotilla	Sustainable Design Criteria Manual									X	
Harvey Alix Loiseau	Sustainable Design Criteria Manual									X	
KBE											
Mike Kenney	Air Quality/GHG; Hazardous Materials	X	X	X			X	X			
Paul Sanford	Air Quality/GHG		X				X	X			
Deady Law											
Erin Deady	State and Local Regulatory and Legislative Issues										X

29. EXAMPLE PROJECT KEY

NO	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Dayton International Airport Sustainability Master Plan; Dayton, OH	6	Nashville International Airport Sustainability Study and Plan; Nashville, TN
2	Northeast Florida Regional Airport at St. Augustine Sustainability Management Plan; St. Augustine, FL	7	Transportation Research Board Airport Cooperative Research Program Projects; Nationwide
3	Niagara Falls International Airport Sustainable Master Plan; Niagara Falls, NY	8	General Consulting Services at Tallahassee Regional Airport (TLH); Tallahassee, FL
4	San Francisco International Airport Sustainability Plan; San Francisco, CA	9	Broward County Airports Planning Services; Fort Lauderdale Aviation Department
5	Stewart International Airport Sustainability Plan; Hudson Valley, NY	10	Municipal Energy Conservation Coalition; Town of Lantana, Haverhill, Ocean Ridge, Palm Beach Shores and City of Atlantis, FL

H. ADDITIONAL INFORMATION


30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

Please see attached statement of qualifications.

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE



32. DATE

March 17, 2014

33. NAME AND TITLE

Carol Lurie, LEED AP, AICP, ENV SP, Principal

ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)
RFQ # 946-11300

PART II – GENERAL QUALIFICATIONS

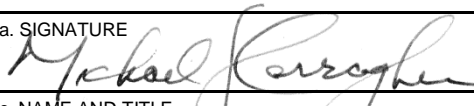
(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME Vanasse Hangen Brustlin, Inc. / Orlando, FL			3. YEAR ESTABLISHED 2010	4. DUNS NUMBER 05-859-4222
2b. STREET 225 E. Robinson Street, Suite 300, Landmark Center Two			5. OWNERSHIP	
2c. CITY Orlando	2d. STATE FL	2e. ZIP CODE 32801	a. TYPE Corporation	
6a. POINT OF CONTACT NAME AND TITLE Michael Carragher, PE, Southeast Regional Manager			b. SMALL BUSINESS STATUS N/A	
6b. TELEPHONE NUMBER (407) 839-4006	6c. E-MAIL ADDRESS mcarragher@vhb.cm		7. NAME OF FIRM (If block 2a is a branch office) Vanasse Hangen Brustlin, Inc.	
8a. FORMER FIRM NAME(S) (If any) Vanasse/Hangen Design, Inc., 1978 Vanasse/Hangen Associates, Inc. 1979 Vanasse/Hangen Engineering, Inc. 1986			8b. YR. ESTABLISHED 1979	8c. DUNS NUMBER 09-587-4384
			Vanasse/Hangen, Inc. 1986 Vanasse Hangen Brustlin, Inc. 1989	

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	134	5	A06	Airports; Terminals and Hangars; Freight Handling	4
08	CADD Technician	45	8	C07	Coastal Engineering	4
12	Civil Engineer	181	15	C14	Conservation and Resource Management	6
14	Computer Programmer	4	1	E07	Energy Conservation; New Energy Sources	4
24	Environmental Scientist	57	1	E09	Environmental Impact Studies, Assessments or Statements	7
29	Geographic Information System Specialist	9	2	E10	Environmental and Natural Resource Mapping	6
39	Landscape Architect	12	2	E11	Environmental Planning	5
47	Planner: Urban/Regional	48	9	G04	GIS Services	6
57	Structural Engineer	49	3	L02	Land Surveying	6
60	Transportation Engineer	161	7	S11	Sustainable Design	6
62	Water Resources Engineer	23	3	S13	Stormwater Handling & Facilities	4
	Other	193	1	T03	Traffic & Transportation Engineering	8
	Total	916	57	V01	Value Analysis; Life-Cycle Costing	4
				W02	Water Resources; Hydrology; Ground Water	5
				P05	Planning (Community, Regional Area-wide and State)	6
					Other	10

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUE OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER	
a. Federal Work	7	1. Less than \$100,000	6. \$2 million to less than \$5 million
b. Non-Federal Work	10	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total Work	10	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million
		5. \$1 million to less than \$2 million	10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE
The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE March 13, 2014
c. NAME AND TITLE Michael Carragher, PE, Southeast Regional Manager	

ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)
RFQ # 946-11300

PART II – GENERAL QUALIFICATIONS

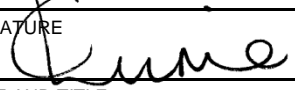
(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME Vanasse Hangen Brustlin, Inc.			3. YEAR ESTABLISHED 1979	4. DUNS NUMBER 09-587-4384
2b. STREET 101 Walnut Street			5. OWNERSHIP	
2c. CITY Watertown			2d. STATE MA	2e. ZIP CODE 02472
6a. POINT OF CONTACT NAME AND TITLE Carol Lurie, Principal			a. TYPE Corporation	
6b. TELEPHONE NUMBER 617.607.2708		6c. E-MAIL ADDRESS clurie@vhb.com		
8a. FORMER FIRM NAME(S) (If any) Vanasse/Hangen Design, Inc., 1978 Vanasse/Hangen Associates, Inc. 1979 Vanasse/Hangen Engineering, Inc. 1986			8b. YR. ESTABLISHED	8c. DUNS NUMBER
			Vanasse/Hangen, Inc. 1986 Vanasse Hangen Brustlin, Inc. 1989	

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
07	Biologist	2	1	A06	Airports; Terminals and Hangars; Freight Handling	4
08	CADD Technician	45	9	C07	Coastal Engineering	4
12	Civil Engineer	181	46	C14	Conservation and Resource Management	6
16	Construction Manager	3	2	E07	Energy Conservation; New Energy Sources	4
23	Environmental Engineer	7	1	E09	Environmental Impact Studies, Assessments or Statements	7
24	Environmental Scientist	57	11	E10	Environmental and Natural Resource Mapping	6
29	GIS Specialist	9	3	E11	Environmental Planning	5
30	Geologist	4	1	G04	GIS Services	6
38	Land Surveyor	46	20	L02	Land Surveying	6
39	Landscape Architect	12	5	S11	Sustainable Design	6
47	Planner: Urban/Regional	48	12	S13	Stormwater Handling & Facilities	4
48	Project Manager	80	25	T03	Traffic & Transportation Engineering	8
58	Technician/Analyst	13	1	V01	Value Analysis; Life-Cycle Costing	4
60	Transportation Engineer	161	29	W02	Water Resources; Hydrology; Ground Water	5
62	Water Resources Engineer	23	14	Z01	Zoning; Land Use Studies	6
	Environmental Planner	28	6	P05	Planning (Community, Regional Areawide and State)	6
Total		916	282		Other	10

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUE OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER			
a. Federal Work	7	1. Less than \$100,000	6. \$2 million to less than \$5 million		
b. Non-Federal Work	10	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million		
c. Total Work	10	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million		
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million		
		5. \$1 million to less than \$2 million	10. \$50 million or greater		

12. AUTHORIZED REPRESENTATIVE
The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE March 13, 2014
c. NAME AND TITLE Carol Lurie, LEED AP, AICP, ENV SP, Principal	

ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)
946-11300

PART II – GENERAL QUALIFICATIONS

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

2a. FIRM (OR BRANCH OFFICE) NAME Kimley-Horn and Associates, Inc.			3. YEAR ESTABLISHED 1968	4. DUNS NUMBER 061099131
2b. STREET 1920 Wekiva Way, Suite 200			5. OWNERSHIP	
2c. CITY West Palm Beach			a. TYPE Corporation	
2d. STATE FL		2e. ZIP CODE 33411		
6a. POINT OF CONTACT NAME AND TITLE Dave Bardt, P.E., Principal			b. SMALL BUSINESS STATUS No	
6b. TELEPHONE NUMBER 561-840-0851		6c. E-MAIL ADDRESS Dave.Bardt@kimley-horn.com		
8a. FORMER FIRM NAME(S) (If any)			8b. YR. ESTABLISHED	8c. DUNS NUMBER

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	159	19	A06	Airports; Terminals; & Hangars; Freight	3
08	CADD Technicians	86	4		Bridges	3
12	Civil Engineers	580	25	C10	Commercial Building; (low rise); Shopping	2
63	Design Technicians	55	4	D03	Desalinization (Process & Facilities)	2
66	Graphic Designers	24	3	E01	Ecological & Archeological Investigations	1
39	Landscape Architects	55	2	E09	Environmental Impact Studies, Assessments	3
42	Mechanical Engineers	5	4	E12	Environmental Remediation	2
48	Project Managers	205	9	F05	Forensic Engineering	1
57	Structural Engineers	41	3	G01	Garages; Vehicle Maintenance Facilities;	1
65	Technical Support	150	12	H01	Harbors; Jetties; Piers; Ship Terminal	1
64	Technical Writers	63	4	H07	Highways; Streets; Airfield Paving; Parking	8
58	Technician/Analysts	185	9	I01	Industrial Buildings; Manufacturing Plants	2
60	Transportation Engineers	227	9	O01	Office Building; Industrial Parks	1
23	Environmental Engineers	12	1	P06	Planning (Site, Installation and Project)	6
13	Communications Engineers	30	3	R04	Recreational Facilities	3
				S04	Sewage Collection, Treatment & Disposal	1
				S09	Structural Design; Special Structures	3
				S10	Surveying; Platting; Mapping; Flood Plain	3
				S13	Stormwater Handling & Facilities	3
				T03	Traffic & Transportation Engineering	6
	Other Employees	141	0	W02	Water Resources; Hydrology; Ground Water	3
Total		2020	111	W03	Water Supply, Treat, Distrib	5

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)	PROFESSIONAL SERVICES REVENUE INDEX NUMBER 1. Less than \$100,000 2. \$100,000 to less than \$250,000 3. \$250,000 to less than \$500,000 4. \$500,000 to less than \$1 million 5. \$1 million to less than \$2 million 6. \$2 million to less than \$5 million 7. \$5 million to less than \$10 million 8. \$10 million to less than \$25 million 9. \$25 million to less than \$50 million 10. \$50 million or greater
a. Federal Work	0
b. Non-Federal Work	8
c. Total Work	8

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE March 6, 2014
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c. NAME AND TITLE
Jerry W. Ingram, P.E., Senior Vice President/Principal Associate

ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

RFQ #946-11300

PART II – GENERAL QUALIFICATIONS

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

2a. FIRM (OR BRANCH OFFICE) NAME ACAI Associates, Inc.			3. YEAR ESTABLISHED 1985	4. DUNS NUMBER 161188289
2b. STREET 2937 W. Cypress Creek Road, Suite 200			5. OWNERSHIP	
2c. CITY Fort Lauderdale			2d. STATE FL	2e. ZIP CODE 33309
6a. POINT OF CONTACT NAME AND TITLE Adolfo J. Cotilla, Jr.			a. TYPE Corporation	
6b. TELEPHONE NUMBER (954) 484-4000			6c. E-MAIL ADDRESS adolfo@aecmworld.com	
8a. FORMER FIRM NAME(S) (If any)			8b. YEAR ESTABLISHED	8c. DUNS NUMBER
7. NAME OF FIRM (If block 2a is a branch office)			FDOT DBE / FL MBE	

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	6		A06	Airports; Terminals & Hangars; Freight Handling	4
06	Architect	6		A11	Auditoriums & Theaters	5
08	CADD Technician	13		C09	Cold Storage; Refrigeration & Fast Freeze	2
12	Civil Engineer	1		C15	Construction Management/Administration	4
15	Construction Inspector	2		E02	Educational Facilities; Classrooms	6
16	Construction Manager	2		F02	Field Houses; Gyms; Stadiums	1
37	Interior Designer	1		G02	Gas Systems (Propane; Natural, etc.)	1
39	Landscape Architect	1		H09	Hospitals & Medical facilities	6
48	Project Manager	5		H10	Hotels; Motels	1
57	Structural Engineer	1		I05	Interior Design; Space Planning	5
				J01	Judicial and Courtroom Facilities	5
				L01	Laboratories; Medical Research Facilities	6
				L03	Landscape Architecture	3
				L04	Libraries; Museums; Galleries	2
				001	Office Buildings; Industrial Parks	3
				P06	Planning (Site, Installation & Project)	3
				P13	Public Safety Facilities	5
				R04	Recreation Facilities (Parks, Marinas, etc.)	5
				R06	Rehabilitation (Bldgs; Structures; Facilities)	3
				R12	Roofing	4
				W03	Water Supply; Treatment and Distribution	5
Total		38				

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER			
a. Federal Work	12 - 1, 11 - 1, 10 - 1	1. Less than \$100,000	6. \$2 million to less than \$5 million	7. \$5 million to less than \$10 million	8. \$10 million to less than \$25 million
b. Non-Federal Work	12 - 6, 11 - 6, 10 - 6	2. \$100,000 to less than \$250,000	9. \$25 million to less than \$50 million	10. \$50 million or greater	
c. Total Work	12 - 6, 11 - 6, 10 - 6	3. \$250,000 to less than \$500,000	4. \$500,000 to less than \$1 million	5. \$1 million to less than \$2 million	

12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.	
a. SIGNATURE <i>Adolfo J. Cotilla Jr.</i>	b. DATE March 10th, 2014
c. NAME AND TITLE Adolfo J. Cotilla, Jr., AIA - President	

ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

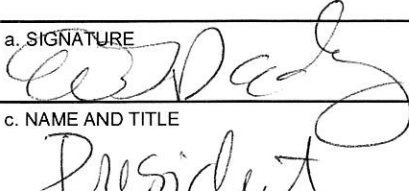
PART II – GENERAL QUALIFICATIONS (If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME Erin L. Deady, P.A.			3. YEAR ESTABLISHED 11/2011	4. DUNS NUMBER 062307334
2b. STREET 620 West Bloxham Street			5. OWNERSHIP	
2c. CITY Lantana	2d. STATE FL	2e. ZIP CODE 33462	a. TYPE S Corporation	
6a. POINT OF CONTACT NAME AND TITLE Erin L. Deady, President			b. SMALL BUSINESS STATUS N/A SBA Certified Woman Owned and Economically Disadvantaged Woman Owned Business	
6b. TELEPHONE NUMBER 954.593.5102	6c. E-MAIL ADDRESS erin@deadylaw.com			
8a. FORMER FIRM NAME(S) (If any) N/A			8b. YR. ESTABLISHED	8c. DUNS NUMBER

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
	47	1	1			3.
	Other					
Total						

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUE OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)	a. Federal Work	
	b. Non-Federal Work	3.
	c. Total Work	3.
PROFESSIONAL SERVICES REVENUE INDEX NUMBER		
1. Less than \$100,000	6. \$2 million to less than \$5 million	
2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million	
3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million	
4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million	
5. \$1 million to less than \$2 million	10. \$50 million or greater	

12. AUTHORIZED REPRESENTATIVE
The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE 3/11/14
c. NAME AND TITLE President	

ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any)

PART II – GENERAL QUALIFICATIONS

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

2a. FIRM (OR BRANCH OFFICE) NAME KB Environmental Sciences, Inc.		3. YEAR ESTABLISHED 2004	4. DUNS NUMBER 174386115
2b. STREET 9500 Koger Boulevard, Pinellas Building STE 211		5. OWNERSHIP	
2c. CITY St. Petersburg	2d. STATE FL	2e. ZIP CODE 33702	a. TYPE Corporation
6a. POINT OF CONTACT NAME AND TITLE L. Carrol Fowler, President			b. SMALL BUSINESS STATUS Small, Women-Owned
6b. TELEPHONE NUMBER 727-578-5152	6c. E-MAIL ADDRESS cfowler@KBEnv.com		
8a. FORMER FIRM NAME(S) (if any)		8b. YR. ESTABLISHED	8c. DUNS NUMBER

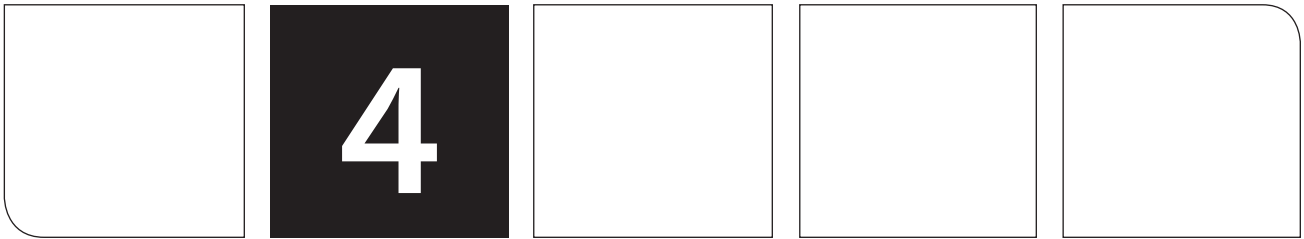
9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
23	Environmental Engineer	2		A01	Acoustics, Noise Abatement	3
24	Environmental Scientist	7		A05	Airports	4
33	Administrative	1		E09	Environmental Impact Studies, Assessments	4
Other Employees						
Total		3				

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS <i>(Insert revenue index number shown at right)</i>		PROFESSIONAL SERVICES REVENUE INDEX NUMBER			
a. Federal Work	2	1. Less than \$100,000	6. \$2 million to less than \$5 million	7. \$5 million to less than \$10 million	8. \$10 million to less than \$25 million
b. Non-Federal Work	3	2. \$100,000 to less than \$250,000	9. \$25 million to less than \$50 million	10. \$50 million or greater	
c. Total Work	4	3. \$250,000 to less than \$500,000			
		4. \$500,000 to less than \$1 million			
		5. \$1 million to less than \$2 million			

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE 	B. DATE October 2, 2013
c. NAME AND TITLE L. Carrol Fowler	



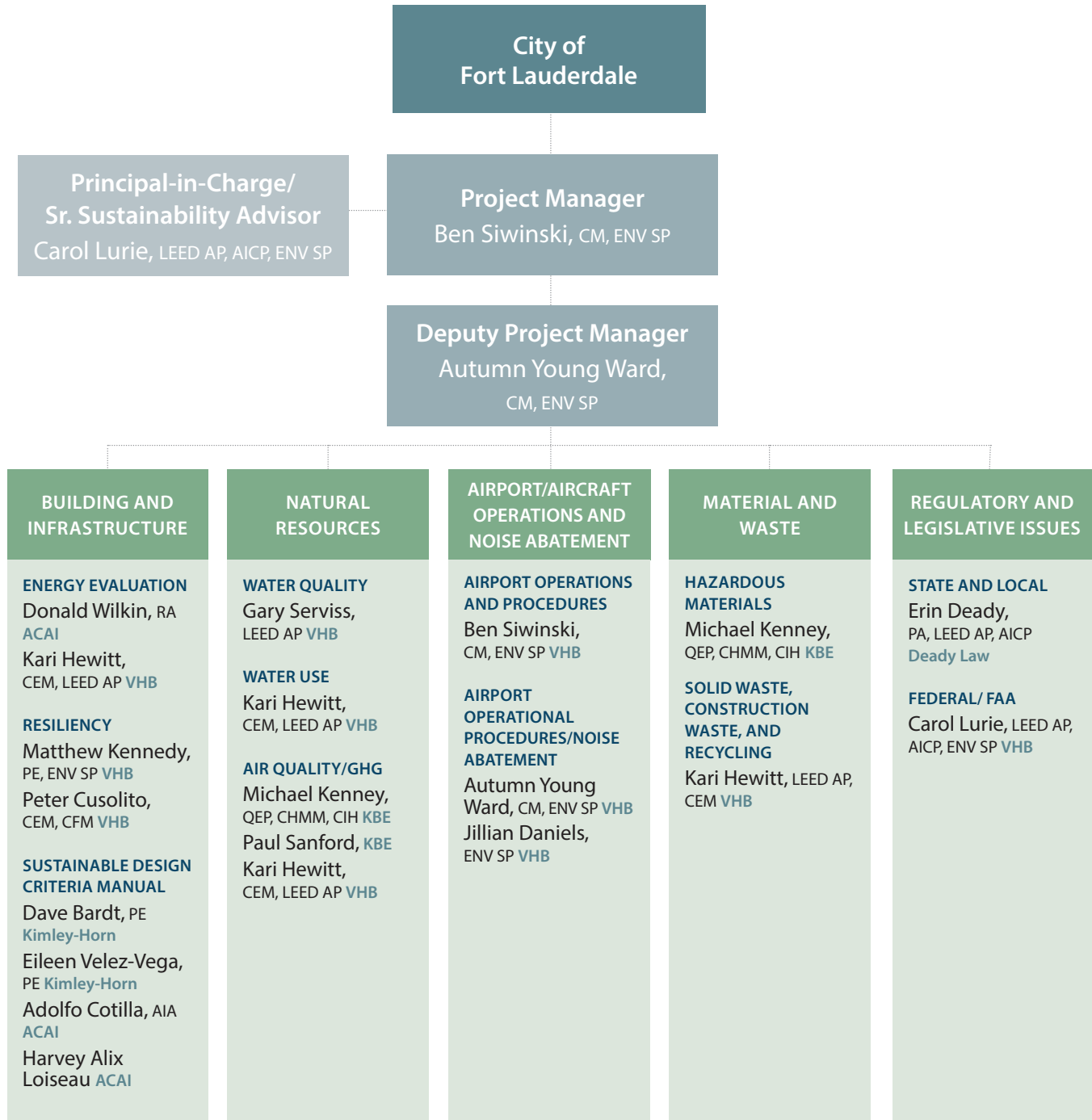
Qualifications of the Project Team

4

Qualifications of the Project Team






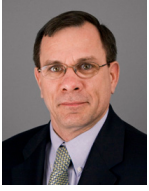
VHB has assembled an experienced team that covers the broad range of capabilities and qualifications required for this project. Our team organizational chart is shown below, followed by a summary table demonstrating the depth and breadth of our team and talent, along with the experience that we will bring to FXE.

Organizational Chart



ACAI ACAI Associates, Inc.
Deady Erin Deady Law
KBE KB Environmental Sciences, Inc.
Kimley-Horn Kimley-Horn and Associates, Inc.



TEAM MEMBER	PROJECT ROLE(S)	SELECTED RELEVANT PROJECT EXPERIENCE
 <p>Ben Siwinski, CM, ENV SP <i>19 Years of Experience</i></p>	<ul style="list-style-type: none"> Project Manager Airport Operations and Procedures 	<ul style="list-style-type: none"> Project Manager: Nashville International Airport Sustainability Study, Dane County Regional Airport Sustainability Plan, and Salt Lake City Sustainability Management Plan VHB Project Manager (subconsultant): Northeast Florida Regional Airport (NFRA), Sustainability Management Plan, University Park Airport Sustainable Master Plan Update, Dayton International Airport Sustainability Master Plan, Task Manager, Noise Element: San Francisco International Airport Sustainability Plan
 <p>Carol Lurie, LEED AP, AICP, ENV SP <i>35 Years of Experience</i></p>	<ul style="list-style-type: none"> Principal-in-Charge Senior Sustainability Advisor 	<ul style="list-style-type: none"> Project Director: Salt Lake City Sustainability Management Plan, Logan International Airport Sustainability Management Plan, Nashville International Airport Sustainability Study, Dane County Regional Airport Sustainability Management Plan Project Manager: Minneapolis-St. Paul International Airport Sustainable Management Plan, International Sustainability Benchmarking Review for Gatwick Airport (UK), Logan International Airport Draft and Final GEIRs/ESPRs (20+ years), Sustainability Technical Lead: Northeast Florida Regional Airport (NFRA), Sustainability Management Plan, Ithaca Tompkins County Regional Airport Sustainable Master Plan
 <p>Autumn Young Ward, CM, ENV SP <i>11 Years of Experience</i></p>	<ul style="list-style-type: none"> Deputy Project Manager Airport Operational Procedures/Noise Abatement 	<ul style="list-style-type: none"> Northeast Florida Regional Airport at St. Augustine Sustainability Management Plan, St. Augustine, FL, Airport Planner Nashville International Airport Sustainability Study, Nashville, TN, Airport Planner University Park Airport, Sustainable Master Plan Update, State College, PA, Task Leader, Sustainability Chapter Niagara Falls International Airport, Sustainable Master Plan, Niagara Falls, NY, Airport Planner
 <p>Kari Hewitt, CEM, LEED AP <i>7 Years of Experience</i></p>	<ul style="list-style-type: none"> Energy Evaluation Water Use Solid Waste, Construction Waste, and Recycling 	<ul style="list-style-type: none"> Dayton International Airport Sustainability Master Plan, Dayton, OH, Deputy Project Manager Green Works Orlando Community Action Plan, Orlando, FL, Energy Evaluation/Public Outreach Energy Baseline and Greenhouse Gas Emissions Inventory, West Palm Beach, FL, Task Leader Albany Energy Master Plan, Albany, NY, Project Manager Monroe County Sustainability Action Plan, Monroe County, FL, VHB Project Manager
 <p>Matthew Kennedy, PE, ENV SP <i>23 Years of Experience</i></p>	<ul style="list-style-type: none"> Resiliency 	<ul style="list-style-type: none"> Massport, Logan International Airport, Runway Stormwater Improvements, Boston, MA, Project Manager Coastal Risk Analysis, Confidential Client, Boston, MA, Project Manager MassDOT, Charles River Watershed Impaired Waters Assessments, MA, Project Director Jackson Laboratory Genomic Medicine Facility Flood Study, Farmington, CT, Project Advisor
 <p>Peter Cusolito, CEM, CFM <i>34 Years of Experience</i></p>	<ul style="list-style-type: none"> Resiliency 	<ul style="list-style-type: none"> Climate Change Vulnerability Assessment and Adaption Plan, Albany, NY, Project Manager Massachusetts Turnpike Authority (MTA) Emergency Management, Boston, MA, Project Manager Highway Operations Center Standard Operating Procedures, MassDOT, Massachusetts, Project Manager - Incident Management Services Massport Strategic Plan, Boston, MA, Led Threat and Hazard Analysis



TEAM MEMBER	PROJECT ROLE(S)	SELECTED RELEVANT PROJECT EXPERIENCE
 <p>Gary Serviss, LEED AP <i>32 Years of Experience</i></p>	<ul style="list-style-type: none"> Water Quality 	<ul style="list-style-type: none"> Orlando International Airport, Water Quality Monitoring Program Evaluation, Orange County, FL, Project Manager and Principal Scientist Proactive Positioning on Water Quality Issues, Greater Orlando Aviation Authority, Orange County, FL, Project Manager and Principal Scientist Evers Reservoir and Braden River Water Quality Assessment and Monitoring, Bradenton, FL, Task Manager for Biological Monitoring Program
 <p>Jillian Daniels, ENV SP <i>4 Years of Experience</i></p>	<ul style="list-style-type: none"> Airport Operational Procedures/Noise Abatement 	<ul style="list-style-type: none"> Dayton International Airport Sustainability Master Plan, Dayton, OH, Environmental Planner University Park Airport Sustainable Master Plan, State College, PA, Environmental Planner Salt Lake City Sustainability Management Plan, Salt Lake City, UT, Environmental Planner Dane County Regional Airport Sustainability Plan, Madison, WI, Environmental Planner
KIMLEY-HORN		
 <p>Dave Bardt, PE <i>38 Years of Experience</i></p>	<ul style="list-style-type: none"> Sustainable Design Criteria Manual 	<ul style="list-style-type: none"> General Consulting Services at Tallahassee Regional Airport (TLH), Tallahassee, FL, Project Manager FDOT Aviation Office Statewide Airfield Pavement Management Program (PMP), Statewide, FL, Contract Project Manager St. Petersburg-Clearwater International Airport (PIE) Runway 4-22 Rehabilitation, Clearwater, FL, Deputy Project Manager Sarasota Bradenton International Airport – Various Aviation Consulting Services, Sarasota, FL, Project Manager
 <p>Eileen Velez-Vega, PE <i>10 Years of Experience</i></p>	<ul style="list-style-type: none"> Sustainable Design Criteria Manual 	<ul style="list-style-type: none"> FDOT Statewide Airfield Pavement Management Program (SAPMP), 2009-2012, Statewide, FL, Program Operations Manager Sarasota Bradenton International Airport - Various Aviation Consulting Services, Sarasota, FL, Civil Analyst Airport Pavement Management System for Tallahassee Regional Airport, Tallahassee, FL, Project Engineer Puerto Rico Ports Authority, Runway 8/26 at Antonio (Nery) Juarbe Pol Airport, Arecibo, PR, Quality Control
ACAI		
 <p>Donald Wilkin, RA <i>34 Years of Experience</i></p>	<ul style="list-style-type: none"> Energy Evaluation 	<ul style="list-style-type: none"> Broward County Ravenswood Bus Maintenance Facility, Fort Lauderdale, FL City of Miramar Continuing Services Contract, Miramar, FL City of Hallandale Beach A/E Open End Services, Hallandale Beach, FL SBBC Southwest Bus Maintenance Facility, Fort Lauderdale, FL Miami-Dade Equitable Distribution Program Continuing Contract, Miami-Dade County, FL
 <p>Adolfo Cotilla, AIA <i>38 Years of Experience</i></p>	<ul style="list-style-type: none"> Sustainable Design Criteria Manual 	<ul style="list-style-type: none"> Broward County Airports Planning Services, Fort Lauderdale, FL Fort Lauderdale Hollywood International Airport Land Use and Planning Study, Fort Lauderdale, FL Fort Lauderdale Hollywood International Airport Expansion Program, Fort Lauderdale, FL Fort Lauderdale Hollywood International Airport Concourse A, Fort Lauderdale, FL



TEAM MEMBER	PROJECT ROLE(S)	SELECTED RELEVANT PROJECT EXPERIENCE
 <p>Harvey Alix Loiseau <i>12 Years of Experience</i></p>	<ul style="list-style-type: none"> Sustainable Design Criteria Manual 	<ul style="list-style-type: none"> Broward County Aviation Department BIM Standards, Broward County, FL Broward County Ravenswood Bus Maintenance Facility, Fort Lauderdale, FL Sandia National Laboratories Cobie Programming, Various Locations
KBE		
 <p>Michael Kenney, QEP, CHMM, CIH <i>33 Years of Experience</i></p>	<ul style="list-style-type: none"> Air Quality/GHG Hazardous Materials 	<ul style="list-style-type: none"> Dayton International Airport Sustainability Master Plan, Dayton, OH, Air Quality/GHG Northeast Florida Regional Airport at St. Augustine Sustainability Management Plan, St. Augustine, FL, Air Quality/GHG Niagara Falls International Airport Sustainable Master Plan, Niagara Falls, NY, Air Quality/GHG Nashville International Airport Sustainability Study and Plan; Nashville, TN, Air Quality/GHG FAA Air Quality Assessment Guidebooks and Training, Air Quality Sections
 <p>Paul Sanford <i>4 Years of Experience</i></p>	<ul style="list-style-type: none"> Air Quality/GHG 	<ul style="list-style-type: none"> Northeast Florida Regional Airport at St. Augustine Sustainability Management Plan, St. Augustine, FL, Air Quality/GHG Nashville International Airport Sustainability Study and Plan; Nashville, TN, Air Quality/GHG Tampa International Airport Sustainability Master Plan, Tampa, FL, Air Quality/GHG
DEADY LAW		
 <p>Erin Deady, PA, LEED AP, AICP <i>18 Years of Experience</i></p>	<ul style="list-style-type: none"> State and Local Regulatory and Legislative Issues 	<ul style="list-style-type: none"> City of West Palm Beach Sustainability Action Plan, City of West Palm Beach, FL, Project Manager Municipal Energy Conservation Coalition- 5 Municipalities, Lantana, FL, Energy Efficiency Conservation Strategy Development City of Boynton Beach Climate Action Plan, Boynton Beach, FL

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each Key Person)

12. Name Ben Siwinski, CM, ENV SP		13. Role in this Contract Project Manager		14. Years Experience	
				a. Total 19	b. With Current Firm 6
15. Firm Name and Location (City and State) Vanasse Hangen Brustlin, Inc., Orlando, FL					
16. Education (Degree and Specialization) BS, Airway Science Management, Florida Institute of Technology, 1995			17. Current Professional Registration (State and Discipline) American Association of Airport Executives, Certified Member Envision™ Sustainability Professional, 2013		
18. Other Professional Qualifications (Publications, Organizations, Training, Awards, etc.) American Association of Airport Executives Florida Airports Council, Environmental Committee - Vice Chair (2012-2014), Sustainability Task Force – Founder/Leader					
19. Relevant Projects					
a.	(1) Title and Location (City and State) Dayton International Airport Sustainability Master Plan, Dayton, OH	(2) Year Completed			
		Professional Services Ongoing	Construction (If applicable)		
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role Mr. Siwinski is Project Manager for this FAA Sustainable Master Plan Pilot Program project, which is focused on the enhancement of the passenger experience and sustainable land management practices. VHB is producing a unique Sustainable Land Management tool for the Airport to understand GHG emissions benefits from converting different non-aeronautical parcels to natural prairie grass from agricultural use.	<input checked="" type="checkbox"/> Check if project performed with current firm			
b.	(1) Title and Location (City and State) Nashville International Airport Sustainability Study, Nashville, TN	(2) Year Completed			
		Professional Services 2012	Construction (If applicable)		
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role Mr. Siwinski was the Project Manager responsible for this FAA Sustainable Master Plan Pilot Program project, which was focused on passenger terminal facility energy efficiency measures, enhancements to the Airport's waste management and recycling activities, and integration of sustainability into the Airport Authority's existing processes and systems. The Study was also conducted concurrently with a separate Master Plan Update effort by the Airport and Mr. Siwinski led coordination between the two studies to maximize benefits for the Airport and FAA.	<input checked="" type="checkbox"/> Check if project performed with current firm			
c.	(1) Title and Location (City and State) Dane County Regional Airport Sustainability Plan, Madison, WI	(2) Year Completed			
		Professional Services Ongoing	Construction (If applicable)		
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role Mr. Siwinski is the Deputy Project Manager preparing a sustainability plan for Dane County Regional Airport, with a focus on highlighting the Airport's existing sustainability initiatives including case studies of tenant initiatives. He is also responsible for ensuring that the Airport's efforts are integrated into the County's ongoing sustainability planning process.	<input checked="" type="checkbox"/> Check if project performed with current firm			
d.	(1) Title and Location (City and State) Transportation Research Board (TRB) Airport Cooperative Research Program (ACRP) Projects, Nationwide	(2) Year Completed			
		Professional Services Various	Construction (If applicable)		
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role Mr. Siwinski is participating in several ACRP projects that will define sustainability planning within the industry, including ACRP Project 02-13/Report 43: Guidebook of Practices for Improving Environmental Performance at Small Airports, Completed (VHB Project Manager); and ACRP Project 02-28, Airport Sustainability Practices: Tools for Evaluating, Measuring, and Implementing (Sustainability Planner).	<input checked="" type="checkbox"/> Check if project performed with current firm			
e.	(1) Title and Location (City and State) Northeast Florida Regional Airport at St. Augustine Sustainability Management Plan, St. Augustine, FL	(2) Year Completed			
		Professional Services 2010	Construction (If applicable)		
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role Mr. Siwinski was the Project Manager leading VHB's efforts as subconsultant for the first stand-alone sustainability plan to be funded by FAA. The sustainability plan contains a detailed baseline data inventory, definition of the sponsor's goals and objectives, development of performance targets, and preparation of a framework for tracking progress. The sustainability plan also included airport authority workshops and a public "visioning" session. Mr. Siwinski coordinated closely with FAA's local Airports District Office and Washington Headquarters during the development of the plan, which is assisting the agency in developing guidance for effective sustainability planning at airports.	<input checked="" type="checkbox"/> Check if project performed with current firm			

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each Key Person)

12. Name Carol Lurie, LEED AP, AICP, ENV SP	13. Role in this Contract Principal/ Senior Sustainability Advisor	14. Years Experience	
		a. Total 34	b. With Current Firm 23

15. Firm Name and Location (City and State) Vanasse Hangen Brustlin, Inc., Watertown, MA
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16. Education (Degree and Specialization) MCP, City Planning, Massachusetts Institute of Technology, 1986 BS, Town and Regional Planning, University of the Witwatersrand, South Africa, 1980	17. Current Professional Registration (State and Discipline) American Institute of Certified Planners, 1987 LEED Accredited Professional, 2006 Envision™ Sustainability Professional, 2013
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18. Other Professional Qualifications (Publications, Organizations, Training, Awards, etc.) Airport Consultants Council; Airports Council International-North America; American Association of Airport Executives; American Planning Association; Women in Transportation Seminar

19. Relevant Projects

a.	(1) Title and Location (City and State) Salt Lake City Sustainability Management Plan, Salt Lake City, UT	(2) Year Completed	
		Professional Services Ongoing	Construction (If applicable)
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role Ms. Lurie is serving as Project Director to develop a Sustainability Management Plan (SMP) for the Salt Lake City Department of Airports (SLCDA). She is participating in stakeholder briefings and facilitating workshops with SLCDA staff, providing direction for technical analyses and stakeholder engagement, and is responsible for quality control for the project.	<input checked="" type="checkbox"/> Check if project performed with current firm	

b.	(1) Title and Location (City and State) Northeast Florida Regional Airport at St. Augustine Sustainability Management Plan, St. Augustine, FL	(2) Year Completed	
		Professional Services 2010	Construction (If applicable)
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role Ms. Lurie was the Sustainability Technical Lead for the first stand-alone sustainability plan to be funded by FAA. The sustainability plan contains a detailed baseline data inventory, definition of the sponsor's goals and objectives, development of performance targets, and preparation of a framework for tracking progress. The sustainability plan also included airport authority workshops and a public "visioning" session. Ms. Lurie was also responsible for facilitating Authority Board and airport stakeholder visioning sessions.	<input checked="" type="checkbox"/> Check if project performed with current firm	

c.	(1) Title and Location (City and State) Dane County Regional Airport Sustainability Plan, Madison, WI	(2) Year Completed	
		Professional Services Ongoing	Construction (If applicable)
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role Ms. Lurie is the Project Manager preparing a sustainability plan for Dane County Regional Airport. The airport wishes to serve as an example to the entire County through developing an approach to sustainability that is customized to an airport setting with its unique characteristics, while building on the County's goals for environmental performance, social equity and economic resilience. She is directing visioning sessions with the Airport Sustainability Committee and users group to define sustainability goals and objectives.	<input checked="" type="checkbox"/> Check if project performed with current firm	

d.	(1) Title and Location (City and State) Transportation Research Board (TRB) Airport Cooperative Research Program (ACRP) Projects, Nationwide	(2) Year Completed	
		Professional Services Various	Construction (If applicable)
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role Ms. Lurie is participating in several ACRP projects that will define sustainability planning within the industry, including serving as the Principal Investigator for ACRP Project 02-28, Airport Sustainability Practices: Tools for Evaluating, Measuring, and Implementing; ACRP Project 02-30, Enhancing the Airport-Industry SAGA Website (Task Manager); and ACRP Project 09-06, Evaluating Impacts of Sustainability Practices on Airport Operations and Maintenance (Task Manager).	<input checked="" type="checkbox"/> Check if project performed with current firm	

e.	(1) Title and Location (City and State) Nashville International Airport Sustainability Study, Nashville, TN	(2) Year Completed	
		Professional Services 2012	Construction (If applicable)
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role Ms. Lurie served as the Project Director for this FAA-funded Sustainable Master Plan Pilot Program project. The sustainability study included a detailed baseline data inventory with a focus on energy and waste management, definition of the sponsor's goals and objectives, development of performance targets, preparation of a framework for tracking progress, and stakeholder outreach. The lessons learned from the Plan will assist FAA in developing guidance for effective sustainability planning at airports. She guided the airport stakeholders through the development of sustainability goals setting, identifying appropriate sustainability programs, and collaborated with the team preparing the Master Plan Update.	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each Key Person)

12. Name Autumn Young Ward, CM, ENV SP	13. Role in this Contract Deputy Project Manager	14. Years Experience	
		a. Total 11	b. With Current Firm 4
15. Firm Name and Location (City and State) Vanasse Hangen Brustlin, Inc., Orlando			
16. Education (Degree and Specialization) MS, Aeronautics with a Specialization in Aviation /Aerospace Safety Systems, Embry-Riddle Aeronautical University, 2003 BS, Aviation Business Administration, Embry-Riddle Aeronautical University, 2001		17. Current Professional Registration (State and Discipline) Certified Member, American Association of Airport Executives, 2012 Envision™ Sustainability Professional, 2013	
18. Other Professional Qualifications (Publications, Organizations, Training, Awards, etc.) Florida Airports Council – Noise Abatement and Community Affairs Vice Chair, WTS International – Tampa Chapter President			

19. Relevant Projects

	(1) Title and Location (City and State)	(2) Year Completed	
		Professional Services	Construction (If applicable)
a.	University Park Airport, Sustainable Master Plan Update, State College, PA	Ongoing	
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role VHB is responsible for the sustainability component of the master plan update at University Park Airport. Ms. Young Ward is the Task Leader for the sustainability chapter. She assisted with incorporating sustainability into the baseline inventory process, development of goals and objectives. Currently, she is recommending sustainability initiatives and an implementation, monitoring, and reporting program in addition to developing screening criteria for the alternatives evaluation.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	ACRP Project 09-06: Evaluating Impacts of Sustainability Practices on Airport Operations and Maintenance, Nationwide	2014	
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role Ms. Young Ward was part of a research team that developed an evaluation process and cost benefit tool (EP&CBT) to evaluate the day-to-day Operations and Maintenance (O&M) impacts of implementing sustainability practices at airports. The tool is targeted for use by facility O&M staff and airport groups that establish sustainability policy. Ms. Young Ward's responsibilities included Task Leader and primary author for Case Study interviews conducted to understand the needs for the EP&CBT, in addition to Project Management responsibilities such as ensuring deliverables were on-time and within budget.	<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	Niagara Falls International Airport, Sustainable Master Plan, Niagara Falls, NY	Ongoing	
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role VHB is responsible for the sustainability component of the master plan update at Niagara Falls International Airport. As part of this process, Ms. Young Ward assisted with developing a baseline inventory of the airport's sustainability performance and sustainability goals and objectives. She is currently screening potential sustainability initiatives, and developing alternatives screening criteria and a sustainability implementation and monitoring plan.	<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	Dane County Regional Airport, Sustainability Plan, Madison, WI	Ongoing	
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role Ms. Young Ward assisted with preparation of a Sustainability Plan for Dane County Regional Airport, which highlighted the Airport's existing sustainability initiatives and recommended sustainability initiatives and an implementation and monitoring plan. Ms. Young Ward also assisted with meetings to ensure Airport's efforts are integrated into the County's ongoing sustainability planning process and all stakeholders were engaged in the study.	<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	Northeast Florida Regional Airport, Sustainability Management Plan, St. Augustine, FL	2011	
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role VHB was responsible for the Northeast Florida Regional Airport (NFRA) Sustainability Management Plan. Ms. Young Ward supported the preparation and documentation of the final report. Responsibilities also included assisting with development of goals and objectives, creating a database of possible sustainability initiatives, and screening potential initiatives to create a custom inventory suitable for NFRA. She also participated in visioning meetings in support of this project.	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each Key Person)

12. Name Kari Hewitt, LEED AP, CEM		13. Role in this Contract Energy Evaluation; Water Use		14. Years Experience	
				a. Total 7	b. With Current Firm 4
15. Firm Name and Location (City and State) Vanasse Hangen Brustlin, Inc., Watertown, MA					
16. Education (Degree and Specialization) MA, Urban and Environmental Policy and Planning, Tufts University, 2008 BA, Sociology, Smith College, 2004			17. Current Professional Registration (State and Discipline) LEED Accredited Professional, 2008 Certified Energy Manager, 2010 Envision™ Sustainability Professional, 2013		
18. Other Professional Qualifications (Publications, Organizations, Training, Awards, etc.) United States Green Building Council; Association of Energy Engineers; American Planning Association					
19. Relevant Projects					
a.	(1) Title and Location (City and State) Green Works Orlando Community Action Plan, Orlando, FL		(2) Year Completed		
			Professional Services 2013	Construction (If applicable)	
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role		<input checked="" type="checkbox"/> Check if project performed with current firm		
Ms. Hewitt was the consultant lead for the Energy/Green Buildings Roundtable as part of the sustainability planning process for the Green Works Orlando Community Action Plan. In this role she coordinated with the City of Orlando and the Roundtable to identify innovative energy initiatives, targets, metrics, and implementation plans that will assist the City of Orlando in reaching its goal of becoming one of the greenest cities in the country. She also assisted in the facilitation of public forums held in the city and was responsible for writing the Energy chapter of the final Plan.					
b.	(1) Title and Location (City and State) Energy Baseline and Greenhouse Gas Emissions Inventory, West Palm Beach, FL		(2) Year Completed		
			Professional Services 2011	Construction (If applicable)	
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role		<input checked="" type="checkbox"/> Check if project performed with current firm		
Ms. Hewitt led the data collection and analysis portion of the energy baseline and greenhouse gas emissions inventory task for the City of West Palm Beach's Sustainability planning effort. She worked directly with City staff to collect all energy data for both government operations and the community at large from Florida Power & Light, the Solid Waste Authority, Treasure Coast Regional Planning Council, and Palm Beach County. VHB was recently hired again to complete a 5-year update of the City of West Palm Beach greenhouse gas emissions inventory. Ms. Hewitt will serve as project manager for this update.					
c.	(1) Title and Location (City and State) Dayton International Airport Sustainability Master Plan, Dayton, OH		(2) Year Completed		
			Professional Services Ongoing	Construction (If applicable)	
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role		<input checked="" type="checkbox"/> Check if project performed with current firm		
Ms. Hewitt is currently serving as Deputy Project Manager for VHB's role on the Dayton International Airport Sustainability Master Plan. In this role she is leading efforts to complete a baseline assessment, develop goals, objectives, initiatives, metrics, and implementation details for the Plan. She has also led the development of a carbon footprint and sustainable land use evaluation tool for assessing the Airport's non-aeronautical land parcels and conversion opportunities. She has also supported the coordination of the Airport Sustainability Committee and engagement with community stakeholders.					
d.	(1) Title and Location (City and State) Albany Energy Master Plan, Albany, NY		(2) Year Completed		
			Professional Services Ongoing	Construction (If applicable)	
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role		<input checked="" type="checkbox"/> Check if project performed with current firm		
Ms. Hewitt is Project Manager for the development of an Energy Master Plan for the City of Albany, NY. This project is part of a larger effort through the New York Power Authority to develop Energy Master Plans for five major cities in New York. Ms. Hewitt is leading efforts associated with conducting a baseline assessment, coordinating with stakeholders, developing goals, objectives, and targets, identifying strategies for achieving goals and objectives, evaluating strategies and quantifying benefits, developing a plan for implementing actions. The Energy Master Plan focuses on areas of Energy Planning and Coordination, Energy Delivery Infrastructure, Transportation Energy Efficiency, and Energy Efficiency in Buildings.					
e.	(1) Title and Location (City and State) Monroe County Sustainability Action Plan, Monroe County, FL		(2) Year Completed		
			Professional Services Ongoing	Construction (If applicable)	
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role		<input checked="" type="checkbox"/> Check if project performed with current firm		
Ms. Hewitt is managing VHB's role on the development of a Sustainability Action Plan for Monroe County, Florida. VHB's role on this project includes an update of the County operations and community scale greenhouse gas inventories, an assessment of progress on energy targets, and development of energy goals, strategies, metrics, and implementation plans. She is also assisting with online and in-person public engagement and communication of the Plan.					

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each Key Person)

12. Name Matthew Kennedy, PE	13. Role in this Contract Resiliency	14. Years Experience	
		a. Total 23	b. With Current Firm 3
15. Firm Name and Location (City and State) Vanasse Hangen Brustlin, Inc., Watertown, MA			
16. Education (Degree and Specialization) BS, Civil Engineering, Worcester Polytechnic Institute, 1990		17. Current Professional Registration (State and Discipline) Envision™ Sustainability Professional (Sustainability) 2013 Professional Engineer (Civil) MA 1996	
18. Other Professional Qualifications (Publications, Organizations, Training, Awards, etc.)			

19. Relevant Projects

	(1) Title and Location (City and State)	(2) Year Completed	
		Professional Services	Construction (If applicable)
a.	Massport, Logan International Airport, Runway Stormwater Improvements, Boston, MA	2013	
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role For the Massachusetts Port Authority (Massport), Mr. Kennedy served as Project Manager for the design of stormwater mitigation for runway safety improvements at Logan Airport. The project involved designing a stormwater treatment to mitigate four acres of a new impervious area to comply with state standards. Site and regulatory constraints provided significant limitations to available options. Ultimately, the team developed a design acceptable to state regulators that fit within airport constraints.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	Coastal Risk Analysis, Confidential Client, Boston, MA	2013	
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role Mr. Kennedy led an analysis to assess coastal flood risks for extreme events for property located on Atlantic Wharf near Boston Harbor. A tenant of a confidential client in Boston was concerned about the risk of flooding and building inundation of their rental unit following Hurricane Sandy. VHB's scope of work included a field survey of the site, collection and review of historic flooding information for the project area, review of existing published studies and reports which predict high water events, and an analysis of potential wave impacts to site during high water events.	<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	Jackson Laboratory Genomic Medicine Facility Flood Study, Farmington, CT	2012	
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role Mr. Kennedy served as Project Advisor for a flood analysis to support the State of Connecticut Flood Management Certification (FMC) application for a new biogenetics laboratory a 17-acre site on the University of Connecticut Health Center campus in Farmington. Tasks included performing the study to determine flood plain elevations within the project area, evaluating the effect on the flood plain due to proposed development, developing a technical report describing the analysis, and providing support with the FMC application and communication with the Connecticut Department of Environmental Protection. Mr. Kennedy oversaw development of hydrologic and hydraulic models to establish 100-year flood flows and elevation to evaluate impact of proposed development scenarios. The study primarily supported the State of Connecticut FMC application, but also met FEMA's guidelines for flood studies in the case of future application for a FEMA Letter of Map Revision (LOMR). The flood study includes data collection, development of existing conditions model, and use of the model to evaluate proposed conditions.	<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	City-wide Floodplain and Drainage Master Plan, Keene, NH	Ongoing	
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role Serving as Project Manager, Mr. Kennedy oversaw the development of a hydrologic/hydraulic model for the City of Keene's stormwater system to evaluate potential flooding areas and mitigation measures. Using the City's limited spatial drainage data with VHB's custom model interface tool to efficiently generate complete hydrologic parameters and hydraulic system model input data, the VHB Team used the tool to fill data gaps with specific rules and assumptions, transfers data stored in the GIS to the US Environmental Protection Agency's (EPA) SWMM for analysis, and view custom results. The efficient interface was used to easily test assumption sensitivity and run management scenarios. The results of the work will include the identification of flood prone areas, their causes, and recommendations for future data collection and improvements.	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each Key Person)

12. Name Peter Cusolito, CEM, CFM	13. Role in this Contract Resiliency	14. Years Experience	
		a. Total 33	b. With Current Firm 7
15. Firm Name and Location (City and State) Vanasse Hangen Brustlin, Inc., Watertown, MA			
16. Education (Degree and Specialization) MBA, Nichols College, 2006 BA, Economics, Framingham State College, 1988	17. Current Professional Registration (State and Discipline) Certified Floodplain Manager, 2012 Certified Emergency Manager, 2011		
18. Other Professional Qualifications (Publications, Organizations, Training, Awards, etc.) International Association of Emergency Managers; Association of State Floodplain Managers; Society of American Military Engineers			

19. Relevant Projects

	(1) Title and Location (City and State)	(2) Year Completed	
		Professional Services	Construction (If applicable)
a.	Climate Change Vulnerability Assessment and Adaption Plan, Albany, NY	Ongoing	Construction (If applicable)
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role In support of the development of a climate adaptation plan for the City of Albany, Mr. Cusolito conducted a vulnerability assessment to determine the potential impacts of climate related weather events on the City's population, infrastructure, natural resources, and economy. This vulnerability assessment applied regional (county) historical and predictive materials to characterize hazards and included a validation of the most likely hazards and vulnerabilities of the people, property, environment, and critical resources in the City. Particular attention was given to those hazards related to the predicted increase in average temperatures, precipitation, and frequency and severity of storms. This information was analyzed to assess these hazard impacts within the context of Albany's geographic location along the tidal portion of the Hudson River. As a result of the hazard identification process, seven natural hazards were identified as having the potential to be influenced by changes in the climate and as affecting or having the potential to affect the City.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	Massachusetts Turnpike Authority (MTA) Emergency Management, Boston, MA	2006	Construction (If applicable)
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role For the Massachusetts Turnpike Authority (now part of the Massachusetts Department of Transportation), Mr. Cusolito assessed and updated the Authority's emergency management program. He evaluated the Authority's Emergency Operations Centers utilizing the Federal Emergency Management Agency (FEMA) checklist and guidance provided by the Department of Homeland Security, and he revised and expanded the Authority's Standard Operating Procedures (SOPs) to reflect the Authority's adoption of the National Incident Management System – Incident Command System model. Mr. Cusolito developed plans and procedures to respond to and manage incidents on MTA roadways and exercises and provided assessments to validate Operations Control Center procedures and capabilities. Special projects he worked on included the development of the Authority's plan for continuing operations in the event of an Avian Influenza Pandemic; scenario, injects, and evaluation guides to support the Authority's participation in the Boston Urban Area Security Initiative functional exercise; and a systematic After Action Report (AAR) process in the aftermath of a significant event involving a rollover of a tanker containing 10,000 gallons of cryogenically cooled liquid methane. The AAR was prepared and presented to assist the Authority in identifying response strengths and areas requiring improvement.	<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	Highway Operations Center Standard Operating Procedures, MassDOT, Massachusetts	Ongoing	Construction (If applicable)
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role Under VHB's on-call contract with the Massachusetts Department of Transportation (MassDOT) to provide Incident Management services, Mr. Cusolito is leading VHB's Emergency Preparedness Planning Team in developing standard operating procedures (SOPs) and associated Quick Reference Guides for the HOC District 1-6 Operators. The HOC SOPs will be categorized either as a 'Response Procedure' or an 'Administrative Procedure.' Each Response Procedure will be further developed to include a corresponding Quick Reference Guide for Operator desktop use.	<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	Massport Strategic Plan, Boston, MA	Ongoing	Construction (If applicable)
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role VHB conducted a threat and hazard analysis to identify vulnerabilities and risks to critical infrastructure at each of Massport's facilities. The process included a review of current and potential future natural, technological, and human-caused threats; identification, classification, and prioritization of critical infrastructure and key resources (CIKR); assessment of vulnerabilities and risks to CIKR; and identification of short-, medium- and long-range actions to improve resiliency and redundancy.	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each Key Person)

12. Name Gary Serviss, LEED AP	13. Role in this Contract Water Quality; Natural Resources	14. Years Experience	
		a. Total 32	b. With Current Firm 15
15. Firm Name and Location (City and State) Vanasse Hangen Brustlin, Inc., Sarasota, FL			
16. Education (Degree and Specialization) MS, Marine Biology, Florida Institute of Technology, 1982 BS, Biological Sciences, Florida Institute of Technology, 1979		17. Current Professional Registration (State and Discipline) LEED Accredited Professional, 2009 Certified Wetland Delineator, 1996	
18. Other Professional Qualifications (Publications, Organizations, Training, Awards, etc.) Society of Wetland Scientists			

19. Relevant Projects

a.	(1) Title and Location (City and State)	(2) Year Completed	
		Professional Services	Construction (If applicable)
	Orlando International Airport, Water Quality Monitoring Program Evaluation, Orange County, FL	2013	
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role Mr. Serviss was Project Manager and Principal Scientist for the review of the Greater Orlando Aviation Authority's water quality sampling program and data results for the Orlando International Airport (OIA). The evaluation included review of permit and development approval conditions, previous annual reports, the master stormwater plan, and master development plan; and a field survey of station sites and sampling methodology. As a result of the review, VHB made recommendations for sampling program revisions to increase the cost efficiency of the data collected, to improve the overall interpretation of the water quality data, and to modify the parameters to better assess the airport runoff relative to the new numeric nutrient criteria.	<input checked="" type="checkbox"/> Check if project performed with current firm	
	(1) Title and Location (City and State) Proactive Positioning on Water Quality Issues, Greater Orlando Aviation Authority (GOAA), Orange County, FL	Ongoing	
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role Mr. Serviss is Project Manager and Principal Scientist for the development of a strategy to address existing and future water quality regulations relative to airport properties. The proactive positioning on water quality issues included services to evaluate and inform GOAA on potential concerns to their properties from the pending numeric nutrient rules. Existing water quality data was reviewed, nearby "verified impaired waterbody" locations were identified, established Total Maximum Daily Loads were evaluated, and ongoing and completed Basin Management Action Plans were assessed. Following review and evaluation of this information, GOAA's risks relative to verified and potential water quality concerns was determined based upon their properties' position in each watershed. VHB provided recommendations on regulatory processes and efforts in which GOAA should participate, as well as data collection efforts that would support sound planning and decision making.	<input checked="" type="checkbox"/> Check if project performed with current firm	
	(1) Title and Location (City and State) Evers Reservoir and Braden River Water Quality Assessment and Monitoring, Bradenton, FL	Ongoing	
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role Mr. Serviss was Task Manager for a biological monitoring program for the tidal portion of the Braden River downstream of the Evers Reservoir dam in Manatee County by designing and implementing a five-year water quality study in compliance with water use permit conditions. Mr. Serviss designed and implemented a five-year water quality study of the Evers Reservoir and Braden River in compliance with water use permit conditions. He collected water quality samples from two stations within the Evers Reservoir and 11 stations within the Braden River for several parameters. Water quality data were collected quarterly over a five-year period with the results summarized in quarterly data reports. In addition, annual summary reports were prepared for the previous four quarterly events summarizing the overall results for that annual reporting period. An interpretative report was prepared summarizing the five-year program.	<input checked="" type="checkbox"/> Check if project performed with current firm	
	(1) Title and Location (City and State) McIntosh Park Hydrological and Water Quality Monitoring, Plant City, FL	2010	
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role Under contract with the Southwest Florida Water Management District (SWFWMD), Mr. Serviss was Project Manager for a two-year project that involved the design and execution of a hydrological and water quality monitoring program for the Enhanced Stormwater Treatment Wetland (ESTW) system in Plant City. The scope of services included the development of a Design and Installation Document for the monitoring network; preparation and processing of a Quality Assurance Project Plan; acquisition and installation of equipment necessary to monitor five sites and rainfall; website development to allow real time access to continuous monitoring data; data management and quarterly data reports; a final report; and a number of meetings to ensure the smooth performance of the monitoring.	<input checked="" type="checkbox"/> Check if project performed with current firm	
	(1) Title and Location (City and State) McIntosh Park Hydrological and Water Quality Monitoring, Plant City, FL	2010	
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role Under contract with the Southwest Florida Water Management District (SWFWMD), Mr. Serviss was Project Manager for a two-year project that involved the design and execution of a hydrological and water quality monitoring program for the Enhanced Stormwater Treatment Wetland (ESTW) system in Plant City. The scope of services included the development of a Design and Installation Document for the monitoring network; preparation and processing of a Quality Assurance Project Plan; acquisition and installation of equipment necessary to monitor five sites and rainfall; website development to allow real time access to continuous monitoring data; data management and quarterly data reports; a final report; and a number of meetings to ensure the smooth performance of the monitoring.	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT


(Complete one Section E for each Key Person)

12. Name Jillian Daniels, ENV SP		13. Role in this Contract Aircraft Operational Procedures/ Noise Abatement		14. Years Experience <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">a. Total 4</td> <td style="width: 50%; text-align: center;">b. With Current Firm 1</td> </tr> </table>		a. Total 4	b. With Current Firm 1
a. Total 4	b. With Current Firm 1						
15. Firm Name and Location (City and State) Vanasse Hangen Brustlin, Inc., Orlando, FL							
16. Education (Degree and Specialization) BS, Aviation Management, Florida Institute of Technology, 2008			17. Current Professional Registration (State and Discipline) Envision™ Sustainability Professional, 2013				
18. Other Professional Qualifications (Publications, Organizations, Training, Awards, etc.) Sustainable Master Plans & Airport Sustainability Plans Course Certificate from Airports Consultants Council Institute: 2010 Private Pilot License, Airport Single-Engine Land (ASEL): 2006							
19. Relevant Projects							
a.	(1) Title and Location (City and State) Dayton International Airport Sustainability Master Plan, Dayton, OH	(2) Year Completed					
		Professional Services Ongoing	Construction (If applicable)				
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role DAY is conducting a Sustainability Master Plan Study under the FAA's Sustainable Master Plan Pilot Program. Ms. Daniels assisted in conducting and compiling the results for a survey regarding potential sustainability initiatives and screening criteria. She also wrote a case study based on the DAY Micro-Grid White paper and is assisting with the development of the final report.	<input checked="" type="checkbox"/> Check if project performed with current firm					
b.	(1) Title and Location (City and State) University Park Airport Sustainable Master Plan, State College, PA	(2) Year Completed					
		Professional Services Ongoing	Construction (If applicable)				
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role VHB is responsible for the sustainability component of the Sustainable Master Plan at University Park Airport. As part of this process, Ms. Daniels assisted with identifying potential sustainability initiatives and documentation of the Sustainability Chapter of the Master Plan.	<input checked="" type="checkbox"/> Check if project performed with current firm					
c.	(1) Title and Location (City and State) Salt Lake City Sustainability Management Plan, Salt Lake City, UT	(2) Year Completed					
		Professional Services Ongoing	Construction (If applicable)				
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role VHB is developing a Sustainability Management Plan for the Salt Lake City Department of Airports (SLCDA). The plan is part of FAA's Sustainable Master Plan pilot program, and is continuation of the Airport's sustainability performance tracking and monitoring. Ms. Daniels assisted with identifying potential sustainability initiatives, including initiatives recommended for inclusion in the Airport's major Terminal Redevelopment Program.	<input checked="" type="checkbox"/> Check if project performed with current firm					
d.	(1) Title and Location (City and State) Dane County Regional Airport Sustainability Plan, Madison, WI	(2) Year Completed					
		Professional Services Ongoing	Construction (If applicable)				
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role Ms. Daniels assisted with preparation of the Sustainability Plan for Dane County Regional Airport. This report highlighted the Airport's existing and potential sustainability initiatives. Responsibilities included creating sustainability fact sheets based on the recommended sustainability initiatives.	<input checked="" type="checkbox"/> Check if project performed with current firm					
e.	(1) Title and Location (City and State) ACRP, Project 02-30: Enhancing the Airport-Industry SAGA Website, Nationwide	(2) Year Completed					
		Professional Services Ongoing	Construction (If applicable)				
	(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role VHB is working on ACRP Project 02-30, <i>Enhancing the Airport-Industry SAGA Website</i> , in order to update and improve the information provided on the SAGA website. Ms. Daniels assisted in creating fact sheets for each sustainability initiative.	<input checked="" type="checkbox"/> Check if project performed with current firm					

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Dave Bardt, P.E.	13. ROLE IN THIS CONTRACT Sustainable Design Criteria Manual	14. YEARS EXPERIENCE	
		a. TOTAL 38	b. WITH CURRENT FIRM 33

15. FIRM NAME AND LOCATION <i>(City and State)</i> Kimley-Horn and Associates, Inc., West Palm Beach, FL	
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16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelor of Science/Engineering/University of Hartford	17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> FL/Professional Engineer/33614; CO/Professional Engineer/31952 NC/Professional Engineer/28183; GA/Professional Engineer/32095 TN/Professional Engineer/112309; SC/Professional Engineer/22698
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>
General Consulting Services at Tallahassee Regional Airport (TLH) Tallahassee, FL	2011 (design); DRI ongoing	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
a. Serving as project manager. First selected as a General Consultant in 2006, Kimley-Horn's contract was just extended until 2011. As one of three consultants available to the Airport, TLH has consistently turned to Kimley-Horn for their most critical projects, including airside design and landside transportation. Projects have included: design and construction phase services for the rehabilitation of the terminal and North Apron. The project included rehabilitation of an existing 13.7-acre apron, including the rubbilization in place of 6.4 acres of existing 16-inch-thick concrete to allow its reuse as base course. This approach minimized construction cost, as well as reduced time for construction. This sustainable approach also reduced the amount of waste material being hauled from the site, the amount of virgin material needed for the project and the amount of hydrocarbons emitted during construction of the project. Upon completion, the project won the FAC Environmental Award for Air Carrier Airports. Other work at TLH included the following: Taxiways Mike, Zulu, and Sierra; design and construction phase services for the rehabilitation of the South Apron Overlay; preparation of an airport pavement management system; and, on the landside, assisting the Airport with reallocating trips within their development of regional impact (DRI) to allow continued development of Airport property for revenue production. Fees vary per project.		
FDOT Aviation Office Statewide Airfield Pavement Management Program (PMP), Statewide, FL	2012	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
b. Served as contract project manager (CPM) for the Kimley-Horn team, which was the lead consultant to the FDOT in the update of the SAPMP. The project included inspection of approximately 95 airports across Florida and developed individual, district, and statewide pavement management reports. As CPM, coordinated directly with Aviation Office project manager (AO-PM). Was responsible for schedule development, coordination of all inspection teams, and managed all subconsultants. Worked with Aviation Office project manager in developing report templates, performed quality control for Kimley-Horn and subconsultant produced reports, participated with weekly calls with AO-PM, handled all billings and dealt with special requests from the AO-PM and individual airports, and oversaw technical enhancements developed for the project. Firm fee: \$1.8 million±.		
St. Petersburg-Clearwater International Airport (PIE) Runway 4-22 Rehabilitation, Clearwater, FL	2012	2013
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
c. Served as deputy project manager. The project includes design of the rehabilitation of Runway 4-22, including paving, drainage, and electrical systems. As part of the project, Kimley-Horn prepared a cost-benefit analysis to determine FAA eligible runway width and length. The final plans also included corrections to airfield pavement markings over the whole airport and re-designation of two runways to correct for magnetic variance. Total project cost: \$6.3 million; firm cost: \$1.25 million.		
Sarasota Bradenton International Airport – Various Aviation Consulting Services Sarasota, FL	Ongoing	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
d. Serving as project manager. Over the past 10 years, Kimley-Horn has completed design and construction phase services for projects, including the Extension of Runway 14-32 and Taxiway Alpha; Taxiway Echo; Taxiway Juliet and Service Road Extension; Runway 14-32 Rehabilitation; Taxiway Alpha Rehabilitation; and Runway 4-22 Rehabilitation. Collectively, construction of those projects were completed 7% below the initial construction contract amount through a combination of careful monitoring during construction and working with the contractors to identify cost savings opportunities without sacrificing quality. Fees vary per project.		
Continuing Aviation Consulting Services Okaloosa County, FL	Ongoing	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
e. Serving as project engineer. Kimley-Horn currently serves as an on-call aviation consultant for planning and engineering services for the Okaloosa County, which operates three airports: Northwest Florida Regional Airport (commercial service), Destin Airport (general aviation), and Bob Sikes Airport (industrial). Firm fee (to date): \$224,229.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Eileen Velez-Vega, P.E.	13. ROLE IN THIS CONTRACT Sustainable Design Criteria Manual	14. YEARS EXPERIENCE	
		a. TOTAL 10	b. WITH CURRENT FIRM 8
15. FIRM NAME AND LOCATION <i>(City and State)</i> Kimley-Horn and Associates, Inc., West Palm Beach, FL			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Master of Science / Civil Eng. / Mississippi State University Bachelor of Science / Civil Engineering / University of Puerto Rico		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> FL / Professional Engineer / 68333 Z / Professional Engineer / 41579 PR / Professional Engineer / 22544	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>
FDOT Statewide Airfield Pavement Management Program (SAPMP), 2009-2012, Statewide, FL	2012	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
a. Program operations manager for the Kimley-Horn team and its sub-consultants providing technical and administrative assistance to the Office of Aviation at the Department of Transportation Florida (FDOT) during the execution of the Statewide Airfield Pavement Management Program. This program consisted of continuous evaluation and updates of the statewide airport pavements in 2009-12. Eileen assisted the project manager and the FDOT Aviation Office manage the staff that conducted field surveys of the pavement condition, data processing, and development of maintenance and rehabilitation plans for 5-10 years as well as the preparation of budget recommendations, plans for maintenance and immediate repair, as well as models for prediction of airport pavement facilities. Kimley-Horn developed comprehensive reports for each airport and the corresponding districts to provide the data necessary to give priority to major rehabilitation and maintenance programs. Approximately 90 airports will be inspected by the end of fiscal year 2012. Total project cost: \$3.8 million over 3 years.		
Sarasota Bradenton International Airport - Various Aviation Consulting Services, Sarasota, FL	Ongoing	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
b. Serving as civil analyst. Over the past 10 years, Kimley-Horn has completed design and construction phase services for projects, including the Extension of Runway 14-32 and Taxiway Alpha; Taxiway Echo; Taxiway Juliet and Service Road Extension; Runway 14-32 Rehabilitation; Taxiway Alpha Rehabilitation; and Runway 4-22 Rehabilitation. Collectively, construction of those projects were completed 7% below the initial construction contract amount through a combination of careful monitoring during construction and working with the contractors to identify cost savings opportunities without sacrificing quality. Fees vary per project.		
Airport Pavement Management System for Tallahassee Regional Airport, Tallahassee, FL	2010	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
c. Served as project engineer for the Kimley-Horn team that prepared a pavement management system for all airport-maintained airside and landside pavements. The project included a field review of the pavements to determine the pavement condition index for each segment and development of a pavement management program based upon pavement condition and preferred maintenance procedures for the Airport. The system will be used in development of a CIP, projecting the need and budget costs for rehabilitation in future years. It is positioned as a pavement management tool, updated periodically for changes in condition due to rehabilitation and maintenance completion and pavement aging. The system allows updates to the CIP due to changes in priorities and revisions to projected maintenance procedures and costs. Total project cost: \$273,529.		
Puerto Rico Ports Authority, Runway 8/26 at Antonio (Nery) Juarbe Pol Airport, Arecibo, PR	Ongoing	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
d. Serving as quality control. The Puerto Rico Ports Authority retained Kimley-Horn to perform a pavement rehabilitation design for Runway 8/26 at Antonio (Nery) Juarbe Pol Airport in Arecibo, Puerto Rico. The pavement rehabilitation design consists of a variable mill and overlay to be performed in four phases. The scope included the development of a construction safety and phasing plan (CSPP) as required by the FAA Advisory Circular 150/5370-2F. The CSPP was developed in orchestra with construction plans and specifications, with the intent of providing safety guidelines, plans for maintaining aircraft operations, and identifying constructions costs. Total contract value: \$209,479.		
El Salvador International Airport Master Plan Update El Salvador	Ongoing	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
e. Serving as quality control. Kimley-Horn was retained to prepare an update to the master plan of the El Salvador International Airport and prepare a feasibility study for the development and expansion of the passenger terminal building. The project included a complete inventory and diagnosis of all airport facilities, development of a market analysis and air traffic forecasts, demand/capacity analysis, development of concept designs for the expansion of the passenger terminal building and aircraft parking apron, land use plans, and airspace and approach plans. A preliminary environmental analysis of the impact of the proposed airport development was prepared as well as a detailed financial analysis including the study of various funding options for the implementation of the more than \$200 million for a 10-year capital investment plan. Total contract value: \$427,569.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each person)

12. NAME Donald M. Wilkin, RA	13. ROLE IN THIS CONTRACT Energy Evaluation	14. YEARS EXPERIENCE	
		a. TOTAL 34	b. WITH CURRENT FIRM 6
15. FIRM NAME AND LOCATION (City and State) ACAI Associates, Inc.; Fort Lauderdale, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) B.A. Architecture/1983/Architecture B.S. Resource Development/1974/Landscape Design		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Florida Architect No. 8011	
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, etc.) NCARB Certified, CPTED Certified, Professional Liability Education Program Certificate, Former City of Fort Lauderdale Historic Preservation Advisory Board Member, Tau Sigma Delta Honor Society in Architecture and Allied Arts			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State) BROWARD COUNTY RAVENSWOOD BUS MAINTENANCE FACILITY <i>Fort Lauderdale, Florida</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES On-going	CONSTRUCTION (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ACAI Associates was selected by Broward County, Florida to provide programming, design and construction administration services for the replacement of facilities at the Ravenswood Bus Maintenance Facility. The 9-acre site will be reconfigured, replacing the existing 1970's structures with new state-of-the-art facilities for current and future needs. When completed, the facility will accommodate up to 150 fleet vehicles including (130) 40-foot buses and (20) 60-foot articulated buses along with staff and visitor parking, the majority of which will be provided by a new 268 - space multi-level parking garage. The existing facilities to be replaced include: an operations building, an 11-Bay bus maintenance building, a fueling and fare retrieval facility, bus washing facility and surface parking. In addition, ancillary structures include: a sanitary lift station, guard gate, a compressor building and other miscellaneous storage buildings. All of these are proposed to be removed as part of this project. As part of Broward County's ongoing efforts to provide more energy efficient, environmentally sustainable building, the new Ravenswood Maintenance Facility will pursue a LEED® Gold Certification.		
b.	(1) TITLE AND LOCATION (City and State) CITY OF MIRAMAR CONTINUING SERVICES CONTRACT <i>Miramar, Florida</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES On-going	CONSTRUCTION (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ACAI has been selected as part of a library of consultants to be used to provide professional planning and engineering services for the following general types of improvements: 1. Utilities Infrastructure Redevelopment, Improvement, and Expansion: Includes potable water, reclaimed water, wastewater, sanitary sewer, storm water, and treatment works. 2. Public Buildings and Facilities: Includes new municipal facilities (e.g. public safety facilities and community centers) and renovations to existing buildings. 3. Parks & Recreation: Includes new parks and upgrades to existing facilities. 4. Energy Conservation and 5. Other consulting services that may be required to improve the City's services.		
c.	(1) TITLE AND LOCATION (City and State) CITY OF HALLANDALE BEACH A/E OPEN END SERVICES <i>Hallandale Beach, Florida</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES On-going	CONSTRUCTION (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ACAI has been selected by the City of Hallandale Beach for an open-ended contract to provide Planning and Consulting services. Services under this contract include Architectural Design, Landscape Architecture, Transportation Engineering, Planning, Urban Design, Mechanical Engineering, Civil Engineering, Traffic Studies, Utilities, Roadways, Permitting, Historic Design, Geotechnical Consulting and Testing services. ACAI will be issued purchase orders on a project-by-project basis under this contract.		
d.	(1) TITLE AND LOCATION (City and State) SBBC SOUTHWEST BUS MAINTENANCE FACILITY <i>Fort Lauderdale, Florida</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2012	CONSTRUCTION (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This Contract comprised of general construction of the Southwest Area Bus Complex for the School Board of Broward County, Florida. The work included a two story Control/Administration Building, a Garage/Maintenance Building, a Fueling Area/Bus Wash Facility, as well as associated paving, landscaping, irrigation, site utilities, drainage, trash dumpster enclosure, exterior facility sign, site lighting, and fencing of mechanical/electrical enclosures as well as car parking. The prototype facility has parking for over 300 buses.		
e.	(1) TITLE AND LOCATION (City and State) MIAMI-DADE EQUITABLE DISTRIBUTION PROGRAM CONTINUING CONTRACT <i>Miami-Dade County, Florida</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2011	CONSTRUCTION (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ACAI's Miami-Dade County experience includes various projects awarded through its EDP program. The scope of services under this contract include, complete professional architectural, civil engineering, structural, MEP and landscape design services, construction engineering and inspection services. Services include the following facilities: Miami Courthouse, Tamiami Air Rescue Facilities, Scalehouse buildings, Prototype K-9 Facility, and Jackson Memorial Hospital.		

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

12. NAME Adolfo J. Cotilla, Jr., AIA	13. ROLE IN THIS CONTRACT <p align="center">Sustainable Design</p>	14. YEARS EXPERIENCE	
		a. TOTAL <p align="center">38</p>	b. WITH CURRENT FIRM <p align="center">29</p>
15. FIRM NAME AND LOCATION (City and State) ACAI Associates, Inc.; Fort Lauderdale, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Design/Architecture, 1975 Master of Fine Arts in Architecture/Architecture, 1977		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) NCARB Registered Architect: Florida AR8011 Certified General Contractor: Florida CGC010769	
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, etc.) Member: AIA - American Institute of Architects; RCI – Roofing Consultants Institute; NRCA – National Roofing Contractors Association and National Trust for Historic Preservation.			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
BROWARD COUNTY AIRPORTS PLANNING SERVICES Fort Lauderdale, Florida	2013	N/A
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The 21st century airport terminal is a passenger service and technology hub that is in constant motion. Within the terminal, various activities and convenience services are provided to travelers who have increasing needs for less stressful and more satisfying traveling experiences. Terminal spaces must be designed to function more efficiently and serve travelers more effectively. This requires the airport terminals to be optimized in their design and performance as well as integrated as seamlessly as possible with the processes that are carried out in the day to day functions of the Terminal. Working with the prime consultant, Leigh-Fisher, Inc., ACAI was chosen to provide continuing Planning and Design services for the Broward County Aviation Department. Work includes the development of Design Guidelines for Fort Lauderdale - Hollywood International Airport. The scope of services included the production of Design Standards for the Terminal Areas of Fort Lauderdale International Airport. The goal of these standards is to establish a general direction for all future development of the Terminal areas; create a descriptive criteria regarding appearance, cost and maintenance goals; establish a format for the Guidelines, and establish a process for the implementation of the Guidelines.	<input checked="" type="checkbox"/> Check if project performed with current firm	
FORT LAUDERDALE HOLLYWOOD INTERNATIONAL AIRPORT LAND USE STRATEGY & PLANNING STUDY Fort Lauderdale, Florida	2012	N/A
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ACAI is providing data collection, review of land use plans, participation in workshops and project support as it relates to the Fort Lauderdale-Hollywood International Airport properties Land Use Strategy and Planning. It is important to note that ACAI's scope is only a portion of the entire scope of the project reflected in the Leigh Fisher Task Authorization from BCAD. Time spent on this project must be recorded on timesheets provided by BCAD. This is a NTE contract therefore the true raw rate for personnel working on this project must be used in lieu of our maximum rate by contract.	<input type="checkbox"/> Check if project performed with current firm	
FORT LAUDERDALE-HOLLYWOOD INTERNATIONAL AIRPORT EXPANSION PROGRAM Fort Lauderdale, Florida	2009	2009
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As part of the Owner's Representative Project Management Team, ACAI was very involved in the Airport Expansion Program at the Fort Lauderdale-Hollywood International Airport. ACAI provided construction management services associated with the phased redevelopment of Passenger Terminal A, the Airport Roadway system, Airfield Improvements and related facilities. ACAI was responsible for developing cost loaded schedules, monitoring and approving monthly construction progress, conducting civil inspections, developing master schedule update procedures, and revising scheduling specifications for all new construction projects while providing quality assurance and minimizing operational disruptions.	<input checked="" type="checkbox"/> Check if project performed with current firm	
FORT LAUDERDALE-HOLLYWOOD INTERNATIONAL AIRPORT CONCOURSE A <i>Ft. Lauderdale, Florida</i>	2007	N/A
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project scope is the design and construction of a five-gate concourse, east of Concourse B and associated taxiway aprons. There are two parts to this project. The first part is the analysis of the Taxi Lane T, Taxiway B and access to runway 9L/27R from Concourses A and B. It includes the coordinated movement with other aircraft using this system in a safe and efficient manner. This analysis will include a study of the visibility of this system from the Control Tower. It also includes determination of the need and location of a Ramp Control Tower. The second part is the planning, programming and provision of project management; architectural, engineering and other design related services for the apron, taxi lane, taxiway configuration; and the elevated Connector from Terminal 1/Concourse B, to and including, Concourse A. This will be determined from the planning in the first part, and will need approval by Broward County Aviation Department (BCAD), FAA and the airlines. This part of the project will include two basic alternatives: the Connector and Concourse without any provision for a Group Check-in Facility, or the Connector and Concourse with the provision for a Group Check-in Facility. ACAI is responsible for developing the schedule and construction phasing plan for this project.	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each person)

12. NAME HARVEY ALIX LOISEAU	13. ROLE IN THIS CONTRACT Sustainable Design	14. YEARS EXPERIENCE	
		a. TOTAL 12	b. WITH CURRENT FIRM 5
15. FIRM NAME AND LOCATION (City and State) ACAI Associates, Inc.; Fort Lauderdale, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) B.A. Architecture		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, etc.) Associate Member of AIA, CM-BIM Certified, CPTED Certified, USGBC LEED® Accredited Professional, AutoCAD 2010 Certified Professional, AutoCAD Architecture 2010 Certified Professional			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
a.	BROWARD COUNTY AVIATION DEPARTMENT BIM STANDARDS <i>Broward County, Florida</i>	2013	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Selected by the prime consultant EAC Consulting, Inc., to create the Fort Lauderdale/Hollywood International Airport (FLL) Building Information Modeling Standards (BIM Standards) and BIM Execution Plan (BEP) for implementation at the facilities owned and maintained by the Broward County Aviation Department (BCAD).		
b.	BROWARD COUNTY RAVENSWOOD BUS MAINTENANCE FACILITY <i>Fort Lauderdale, Florida</i>	On-going	Est. 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm ACAI was selected by Broward County, Florida to provide BIM services for the replacement of facilities at the Ravenswood Bus Maintenance Facility. The 9-acre site will be reconfigured, replacing the existing 1970's structures with new state-of-the-art facilities for current and future needs. When completed, the 214,789 sf facility will accommodate up to 150 fleet vehicles including (130) 40-foot buses and (20) 60-foot articulated buses along with staff and visitor parking, the majority of which will be provided by a new 250 - space multi-level parking garage. Integrated 4D modeling is part of the deliverables for analyzing project phasing, tenant sequencing, and construction scheduling.		
c.	SANDIA NATIONAL LABORATORIES COBIE PROGRAMMING <i>Various Locations</i>	On-going	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm ACAI Technologies is currently providing COBie Programming services for Sandia National Laboratories. Sandia Contract documents for COBie deliverable requirements on future BIM projects include: Asset type list; Sandia naming conventions; COBie-Sandia Data set; COBie progression schedule; COBie formatted file template; COBie Sandia formatted file deliverable example; and POC COBie - Sandia Schedule Templates-Update. In addition, ACAI Technologies is providing COBie deliverable requirements on-site training.		
d.	NSU CENTER FOR COLLABORATIVE RESEARCH CONSTRUCTION BIM SERVICES <i>Davie, Florida</i>	On-going	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm ACAI Technologies has been selected to provide BIM services for Nova Southeastern University's Center for Collaborative Research Facility (CCR). The CCR will be a state-of-the-art, cooperative interdisciplinary center for medical, pharmaceutical, dental and oceanographic research. The 216,000 square foot building, which will pursue a LEED® Silver Certification, will include access to a six level 1,650 car parking garage, providing additional student parking and parking for the CCR staff. The CCR is scheduled to start construction in the first quarter of 2014. Our services include a BIM Execution Plan, COBie, BIM Management and Coordination for all the disciplines, Modeling Upgrade to LOD 350 for Mechanical, Electrical, Plumbing, Fire Protection & Civil Utilities and modeling upgrade to LOD 500 for all disciplines.		
e.	BROWARD COUNTY COURTHOUSE BIM SERVICES <i>Fort Lauderdale, Florida</i>	On-going	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm ACAI Technologies was commissioned by the general contractor to provide Building Information Modeling services for the New Broward County Courthouse Architectural, Structural, and Civil disciplines. The new, 23-story facility will provide 693,000 sf of programmed space for civil and family courts with supporting services.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Michael Kenney	13. ROLE IN THIS CONTRACT Air Quality/GHG	14. YEARS EXPERIENCE	
		a. TOTAL 33	b. WITH CURRENT FIRM 9
15. FIRM NAME AND LOCATION <i>(City and State)</i> KB Environmental Sciences, Inc.			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BA - Environmental Sciences MS - Environmental Engineering Sciences		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Certified Hazardous Materials Manager – U.S. Qualified Environmental Professional – U.S. Certified Industrial Hygienist – U.S.	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Member, Air and Waste Management Association, Airport Council International, Airport Consultants Council Co-editor and contributing author, Airport Air Quality, University of California, Berkeley, 2004. Competent Toastmaster.			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a.	FAA Air Quality Assessment Guidebooks and Training	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If Applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Involved in the preparing the FAA's "Guidance Materials for the Assessment of Hazardous Air Pollutants (and Organic Gases)" from aircraft and airports. Responsible for updating FAA's "Airport Air Quality Handbook", Air Quality Sections of FAA Order 1050.1E "Environmental Impacts Policies & Procedures" and supporting "Desk Reference"; all of which are used nationwide for air quality assessments at airports. Developer and Lead Instructor for FAA's "Airport Air Quality and EDMS Course" given to over 250 agency personnel in all FAA regions.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	Transportation Research Board, Airport Cooperative Research Program Projects	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If Applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Involved in several ACRP research initiatives designed to reduce air quality impacts of airport-related emission sources. Assignments include ACRP 02-10: <i>Practical Greenhouse Gas Emission Reduction Strategies for Airports</i> , ACRP 02-13: <i>A Guidebook for Improving Environmental Performance at Small Airports</i> , and ACRP 02-17: <i>Measuring PM Emissions from Ground Support Equipment, Auxiliary Power Units, and Tires and Brakes</i> .	<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	Aircraft Owners and Pilots Association (AOPA) Environmental Issues Guidebook	PROFESSIONAL SERVICES 2009	CONSTRUCTION (If Applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Prepared for the staff and membership of AOPA, "first-of-its-kind" Guidebook provides comprehensive overview/assessment of current/emerging environmental issues facing the general aviation (GA) industry. Issues pertaining to air quality (including PM), climate change, noise, water quality, fuel storage, hazardous materials, etc. were identified and addressed both nationally and world-wide.	<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	International Civil Aeronautics Organization (ICAO) Guidebook and Training.	PROFESSIONAL SERVICES 2008	CONSTRUCTION (If Applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Prepared the technical guidelines for computing air emissions (including PM) from stationary sources at airports for ICAO's <i>Emissions Inventory Guidebook</i> used internationally. Also responsible for the preparation and instruction of ICAO's Airport Greenhouse Gas Tutorial – a first of its kind.	<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	Tampa International Airport Sustainability Master Plan	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If Applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager responsible for the assessment of air emission reduction measures for greenhouse gases (GHGs). This includes airport staff and stakeholder coordination, identification of GHG emission sources, and evaluation of reduction measures.	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Paul Sanford	13. ROLE IN THIS CONTRACT Air Quality / GHG	14. YEARS EXPERIENCE	
		a. TOTAL 4	b. WITH CURRENT FIRM 4
15. FIRM NAME AND LOCATION <i>(City and State)</i> KB Environmental Sciences, Inc.			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS - Environmental Science & Policy		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i>	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Airport Council International (ACI)			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a.	Transportation Research Board (TRB) Airport Cooperative Research Program (ACRP) Projects. Washington, D.C.	2014	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Involved in preparing the ACRP 02-13: <i>A Guidebook for Improving Environmental Performance at Small Airports</i> – responsible for the identification, assessment, and development of air emission management and reduction measures for all emission sources and types (including greenhouse gases) associated with small (e.g., non-hub) airports.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	Tampa International Airport Sustainability Master Plan, Tampa, Florida	2014	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Technical analysts responsible for the development and assessment of air emission reduction measures for greenhouse gases (GHGs). This includes airport staff and stakeholder coordination, identification and quantification of GHG emission sources, and evaluation of reduction measures.	<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	Northeast Florida Regional Airport, Airport Sustainability Master Plan, St. Augustine, FL	2012	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Technical analysts responsible for the development and assessment of air emission reduction measures for greenhouse gases (GHGs). This includes airport staff and stakeholder coordination, identification and quantification of GHG emission sources, and evaluation of reduction measures.	<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	Nashville International Airport, Sustainable Master Plan & Air Quality Assessment Services, Nashville, Tennessee	2014	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Assisted the Metropolitan Nashville Airport Authority in their participation in the FAA's Sustainable Master Plan Pilot Program. Computed a comprehensive criteria pollutant emissions inventory of baseline (i.e. current) and forecasted airport operations. The information will be integral in helping to guide the airport making effective environmental decisions as they pertain to air quality impacts operating at the airport, as well as to assist in the planning of their long-range initiatives.	<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	"Green Build" Greenhouse Gas (GHG) Management Plan, San Diego International Airport (SAN), California	2014	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Involved in the quantification of GHGs associated with the construction and operation of the "Green Build" improvements to the airport. Involved airport staff and stakeholder coordination, identification of GHG emission sources, and evaluation of reduction measures.	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each Key Person)

12. Name Erin L. Deady, PA, LEED AP, AICP	13. Role in this Contract State and Local Regulatory and Legislative Issues	14. Years Experience	
		a. Total 18	b. With Current Firm 2.5

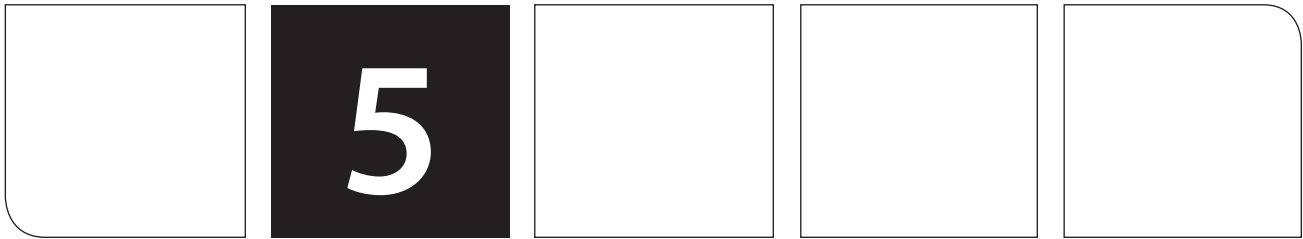
15. Firm Name and Location (City and State)
Erin L. Deady, P.A., 1111 Hypoluxo Road, Suite 207, Lantana, FL 33462

16. Education (Degree and Specialization) Bachelor of Arts, University of Miami, 1993 Master of Public Administration, Environmental Growth Management, Florida Atlantic University, 1997 Juris Doctorate, Nova Southeastern University, 2000	17. Current Professional Registration (State and Discipline) Florida Bar, 2003 American Institute of Certified Planners, National, 2008 United States Green Building Council, Leadership in Energy and Environmental Design, AP, 2009
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18. Other Professional Qualifications (Publications, Organizations, Training, Awards, etc.)

19. Relevant Projects

	(1) Title and Location (City and State)	(2) Year Completed	
		Professional Services	Construction (If applicable)
	City of West Palm Beach Sustainability Action Plan, City of West Palm Beach, FL	2012	
a.	<p>(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role</p> <p>Ms. Deady was awarded a contract in December 2010 as the Project Manager for the City of Sustainability Action Plan. She was responsible for project approach and assuring all work is completed on time and on budget including two subcontractors. The plan development process included an assessment of the City's current sustainability practices; a greenhouse gas inventory based on reporting requirements, legislation and an identified reduction target based on existing and predicted law; a citizen engagement process and final plan compilation. Recommendations for revisions to the Code of Ordinances, the Comprehensive Plan and an Implementation Strategy were all included in the project scope.</p>	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Municipal Energy Conservation Coalition- 5 Municipalities, Lantana, FL	2012	
b.	<p>(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role</p> <p>Ms. Deady developed an Energy Efficiency Conservation Strategy ("EECS") for the Town of Lantana, Town of Haverhill, Town of Ocean Ridge, Town of Palm Beach Shores and City of Atlantis. The EECS is based upon a municipal facilities and operations and communitywide greenhouse gas emissions inventory for all 5 municipalities and investment grade energy audits for the municipalities' facilities and buildings. The EECS will include a transportation strategy to reduce greenhouse gas emissions (developed by 1,000 Friends of Florida) as well as an Implementation Strategy consisting of recommendations for building code revisions as well as comprehensive plan amendments. The overall consultant team is also tasked with implementing an outreach strategy and residential rebate program. As described in the Grant Funding Section, Ms. Deady created the grant strategy, wrote the grant, secured the partnerships, coordinated all data required for the grant submittal and secured support from Treasure Coast Regional Planning Council.</p>	<input checked="" type="checkbox"/> Check if project performed with current firm	
	City of Boynton Beach Climate Action Plan, Boynton Beach, FL	2010	
c.	<p>(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role</p> <p>Ms. Deady assisted in the development of the City's Climate Action Plan. Ms. Deady used recommendations from the City's Community Alliance to form the basis of the Climate Action Plan, based on a citywide greenhouse gas emissions inventory. She helped develop the approach for the City's Green Building Ordinance and developed Comprehensive Plan recommendations for the City to comply with new requirements to incorporate greenhouse gas reduction strategies into the Comprehensive Plan. This strategy also included amendments to the other Comprehensive Plan elements as appropriate for long-term implementation of the Climate Action Plan. Additionally recommendations were made to the City's Code of Ordinances (apart from the Land Development Regulations) to include waste management, environmentally preferred procurement and other policy changes to the City's operations. She has monitored and tracked various energy and green building incentive programs and funding opportunities at the federal and state level for the City also.</p>	<input checked="" type="checkbox"/> Check if project performed with current firm	
	City of Marathon Sustainability and Climate Plan, Marathon, FL	2012	
d.	<p>(3) Brief Description (Brief scope, size, cost, etc.) and Specific Role</p> <p>Ms. Deady is a subconsultant on a project to develop a greenhouse gas inventory and Energy Conservation Strategy for the City of Marathon. The greenhouse gas inventory will include municipal operations and facilities as well as communitywide greenhouse gas emissions. The Strategy will develop a target for greenhouse gas emissions as well as an approach to meet that target across the various sources of emissions.</p>	<input checked="" type="checkbox"/> Check if project performed with current firm	



Project Manager's Experience

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Project Manager's Experience

The VHB Team will be led by Project Manager **Ben Siwinski, CM, ENV SP**, who has a proven track record of successfully completing airport sustainability plans nationwide. Mr. Siwinski has 19 years of professional experience and combines his strong background in airport and environmental planning with a demonstrated understanding of the value that sustainability planning provides in the future development of an airport. He has managed several sustainability management plan projects, including those noted below. He has educated the airport industry by establishing and leading the Sustainability Task Force for the Florida Airports Council (FAC) and earned the organization's *2011 Corporate Eagle Award* for his efforts.



Benjamin Siwinski, CM, ENV SP

Project Manager

For almost 20 years, Mr. Siwinski has worked exclusively with aviation-related projects, with emphasis on environmental and sustainability planning, aircraft noise analyses, and airport master planning. His projects have encompassed both the civilian and military sectors, and include facilities ranging in size from small general aviation airports to major large-hub air carrier airports in the United States and abroad. Mr. Siwinski is a Certified Member of the American Association of Airport Executives (AAAE), an Envision Sustainability Professional (Institute for Sustainable Infrastructure), and an active member of the Florida Airports Council's Environmental Committee. He has presented on the topic of sustainability planning at the Florida Airports Council's annual and specialty conferences, AAAE Southeast Chapter's annual, and financial conferences.

EDUCATION

BS, Airway Science Management, Florida Institute of Technology, 1995

CERTIFICATIONS

American Association of Airport Executives, Certified Member
Institute for Sustainable Infrastructure, Envision Sustainability Professional

SELECTED PRESENTATIONS/PUBLICATIONS/AWARDS

- ACC/AAAE Airport Planning, Design & Construction Symposium, *Public Involvement & Stakeholder Engagement: Reaching Consensus*, Denver CO, February 2014.
- Florida Airports Council (FAC) Specialty Conference, Moderator – *Sustainability Initiatives – Retrofitting/Recommissioning/Energy Management*, Orlando FL, November 2013.

Dayton International Airport Sustainability Master Plan, Dayton, OH

Mr. Siwinski is the Project Manager for this FAA Sustainable Master Plan Pilot Program project that is focused on enhancing the passenger experience and the GHG emissions associated with non-aeronautical land uses (particularly conversion from agricultural uses to natural prairie grass). The plan includes extensive coordination with the newly formed Airport Sustainability Committee to review materials and provide valuable insight into the most effective sustainability implementation methods for the Airport staff. Mr. Siwinski coordinated closely with the local Audubon Society during the development of a unique Sustainability Land Management tool.

Northeast Florida Regional Airport at St. Augustine Sustainability Management Plan, St. Augustine, FL

Mr. Siwinski was the Project Manager leading VHB's efforts as subconsultant for the first stand-alone sustainability plan to be funded by FAA. The sustainability plan contains a detailed baseline data inventory, definition of the sponsor's goals and objectives, development of performance targets, and preparation of a framework for tracking progress. The sustainability plan also included airport authority workshops and a public "visioning" session. Mr. Siwinski coordinated closely with FAA's local Airports District Office and Washington Headquarters during the development of the plan, which is assisting the agency in developing guidance for effective sustainability planning at airports.

Nashville International Airport Sustainability Study, Nashville, TN

Mr. Siwinski was the Project Manager responsible for this FAA Sustainable Master Plan Pilot Program project, which was focused on passenger terminal facility energy efficiency measures, enhancements to the Airport's waste management and recycling activities, and integration of sustainability into the Airport Authority's existing processes and systems. The Study was also conducted concurrently with a separate Master Plan Update effort by the Airport and Mr. Siwinski



- AAAE Southeast Chapter Airport Finance and Administration Conference, *Airport Waste Management and Recycling*, Destin FL, March 2013.

led coordination between the two studies to maximize benefits for the Airport and FAA, including the development of sustainability-related alternatives screening criteria for use in the Master Plan Update.

Salt Lake City Sustainability Management Plan, Salt Lake City, UT

Mr. Siwinski is serving as Project Manager to develop a Sustainability Management Plan (SMP) for the Salt Lake City Department of Airports (SLCDA). The plan is part of FAA's Sustainable Master Plan pilot program, and is continuing the Airport's record of sustainability performance tracking and monitoring. The plan is also collaborating with the Airport's major Terminal Redevelopment Program (TRP) to ensure that sustainability is incorporated into new facilities, consistent with SLCDA's sustainability goals and objectives.

- FAC Corporate Eagle Award, 2011 (for volunteer efforts associated with the FAC Sustainability Task Force).

Dane County Regional Airport Sustainability Plan, Madison, WI

Mr. Siwinski is the Deputy Project Manager preparing a sustainability plan for Dane County Regional Airport, with a focus on highlighting the Airport's existing sustainability initiatives including case studies of tenant initiatives. He is also responsible for ensuring that the Airport's efforts are integrated into the County's ongoing sustainability planning process.

- Airport Improvement Magazine, *NE Florida Regional Lands First FAA Funding for Sustainability Management Plan*, July-August 2011, <http://www.airportimprovement.com/content/story.php?article=00282>

Transportation Research Board (TRB) Airport Cooperative Research Program (ACRP) Projects

Mr. Siwinski is participating in several ACRP projects that will define sustainability planning within the industry, including ACRP Project 02-13/Report 43: Guidebook of Practices for Improving Environmental Performance at Small Airports, Completed (VHB Project Manager); and ACRP Project 02-28, Airport Sustainability Practices: Tools for Evaluating, Measuring, and Implementing (Sustainability Planner).

- Southeast Chapter AAAE Annual Conference and Exposition, *Airport Sustainability Planning*, Mobile AL, April 2011.

San Francisco International Airport Sustainability Plan, San Francisco, CA

Mr. Siwinski is the Task Manager for the noise element of the comprehensive sustainability plan, which included a complex "trade-off" analysis of departure procedures that evaluated aircraft noise exposure, fuel burn and air pollutant emissions.

- FAC Annual Conference, *The St. Augustine Airport Sustainable Management Plan*, Tampa FL, July, 2010.

University Park Airport Sustainable Master Plan Update, State College, PA

Mr. Siwinski is the Project Manager leading VHB's efforts as subconsultant on a Master Plan Update that includes extensive stakeholder engagement and sustainability goals visioning. This project is part of FAA's Sustainable Master Plan Pilot Program.

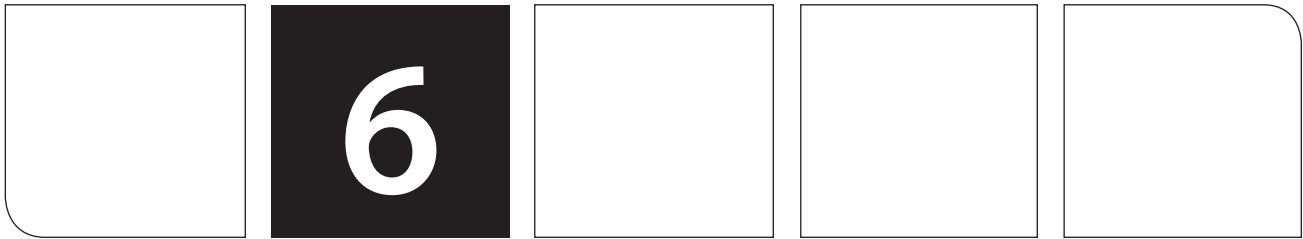
- FAC Facilities and IT Conference, *Airport Sustainability Planning and the FAC Sustainability Task Force*, Orlando FL, July 2010.

Quad City International Airport Sustainable Master Plan Update, Moline, IL

Mr. Siwinski is the Project Manager leading VHB's efforts as subconsultant for the sustainability element of Quad City International Airport Master Plan Update. Mr. Siwinski is responsible for incorporating sustainability into the baseline inventory process, goals and objectives development, and airport development program alternatives evaluation.

- FAA Southern Region Interagency Environmental Workshop, *Airport Sustainability Planning*, Atlanta GA, June 2010.

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Approach to Scope of Work

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Approach to Scope of Work

Following the latest thinking, the VHB team views sustainability in a holistic sense—including not only environmental, but social and economic components as well. Within the airport industry, the Airports Council International–North America (ACI-NA) defined sustainability as “a holistic approach to managing an airport so as to ensure the integrity of the **E**conomic viability, **O**perational efficiency, **N**atural Resource conservation and **S**ocial responsibility of the airport,” or **EONS**.



Understanding of the City’s Needs, Goals and Objectives

THE CITY OF FORT LAUDERDALE’S SUSTAINABILITY GOALS ARE FOCUSED ON:

- Leadership
- Air quality
- Energy
- Water
- Built and natural environment
- Transportation
- Waste
- Progress tracking

The City of Ft. Lauderdale has been a leader within the State of Florida and nationally in developing actionable plans for sustainable growth and development. The City’s focused goal and objectives from its Sustainability Action Plan will serve as the foundation of the FXE Sustainability Management Plan. Conceptually, the FXE plan will operate as a microcosm of the City’s broader Sustainability Action Plan in the areas of Air Quality, Energy, Water, Transportation, and Waste. Action items will be incorporated from the City’s Plan that are relevant to the operation of FXE in addition to other goals that represent the holistic nature of sustainability. While FXE-controlled facilities are limited, the Airport is a significant landlord and has the ability to influence the actions of its tenants to improve sustainability.

VHB has worked with a number of municipal or county operated Airports nationwide that are developing sustainability plans consistent with their local governments’ planning efforts. For example, the Salt Lake City International Airport adopted the relevant goals and objectives for sustainability developed by the Salt Lake City Corporation (city government). Modifications were made where appropriate to fit the airport context. Similarly, Dane County Regional Airport in Madison, Wisconsin, has used the initial framework developed by Dane County’s sustainability coordination efforts while taking it a step further by identifying numerous actionable sustainability initiatives to meet each goal. *In both these examples and other VHB plans, demonstrating consistency with local governments’ sustainability efforts has enhanced buy-in by local decision-makers, provided opportunities for cross-department collaboration, and shown the Airports to be leaders in their communities.*

Overall Approach to Accomplishing the Project

To balance seemingly competing goals of conservation and growth, effective planning is critical. While a traditional airport master planning process can match future facility requirements with aircraft activity demand levels, a sustainability plan can “dig deeper” by evaluating the most efficient methods of meeting future demand to avoid unsustainable growth, setting achievable yet challenging goals, and setting a path for continual improvement beyond the master planning timeframe. While there are some similarities between traditional airport master planning and sustainability planning in terms of information and data needs, the planning process or framework is different—taking a life cycle cost view of planning, developing, implementing, and closing out a project or facility. This approach requires a team that can anticipate issues, yet be ready to adapt with new focus areas and resources. *VHB understands how to navigate all aspects of the sustainability planning process because we have done it at airports, universities, and municipalities—here in Florida and nationwide.*

VHB has developed a planning methodology that has been successfully adapted to the unique context of our airport sustainability plans to deliver recommendations that can be acted upon, tracked for performance, and used to highlight the airport as a “good neighbor” within the community.



Senior Sustainability Advisor, Carol Lurie, has provided two training sessions for FAA's environmental and planning staff at the agency's former training facility in Palm Coast, FL. Carol and Ben Siwinski were invited by FAA to present on our sustainability planning process at the agency's Southern Region Interagency Environmental Workshop in 2010.

FAA Guidance and Coordination

[RFQ Scope Item] 1. Review of most current Federal Aviation Administration (FAA) guidance for an Airport Sustainable Management Plan.

VHB partnered with FAA at the earliest stages of the agency's ambitious pilot program, serving as the sustainability subconsultant (Ithaca Tompkins Regional Airport Sustainable Master Plan) and the lead consultant (Northeast Florida Regional Airport Sustainable Management Plan in St. Augustine) on the first two sustainability planning efforts funded by FAA Airport Improvement Program grants. *The scopes of work and lessons learned from these projects ultimately served as the basis of FAA's Interim Guidance on Airport Sustainability Planning.*¹

Funding for these projects was accomplished through close coordination with FAA's Office of Airport Planning and Programming at its Washington, DC, Headquarters. During the course of the pilot program projects that VHB has worked on, we successfully collaborated with FAA's local Airports District Office (ADO) planners and Regional office personnel. Project Manager Ben Siwinski communicated extensively with Rebecca Henry (now Assistant Manager) at FAA's Orlando ADO during the course of the Northeast Florida Regional Airport Sustainability Management Plan and with Jackie Sweatt-Essick at FAA's Southern Region in Atlanta during the Nashville International Airport Sustainability Plan.

During the course of this project with FXE, VHB proposes to prepare two Lessons Learned memo reports (as shown on the schedule in this Section), with input gathered from FXE, the consultant team, and the local FAA offices (Orlando ADO and Southern Region). These reports will be sent to Patrick Magnotta at FAA's Headquarters for consideration in the agency's next version of its Lessons Learned report to the industry and incorporated into the upcoming ACRP project that is compiling the pilot program's lessons learned. *VHB's experience in partnering with the FAA on a variety of sustainability planning projects will ensure that the FXE Sustainability Master Plan follows the pilot program guidance and maximizes both the FAA's and City's investment in this important study.*

Sustainability Committee Establishment and Coordination

[RFQ Scope Item] 2. Work with a Sustainability Committee to be established by FXE to identify key contacts for baseline assessments and for consultation throughout the SMP development process.

At the earliest stages of the project, the VHB Team will work with FXE staff to convene an Airport Sustainability Committee consisting of representatives from each of the Airport's functional areas. The Sustainability Committee will be a "sounding board" and provide input during key points of the planning process. The VHB Team will hold four workshops with the committee during the course of the 12-month project schedule, generally consisting of the following topics:

- **Workshop #1:** Conduct a visioning session to define the focus areas of the sustainability plan; Discuss ideas for mission statement; Identify existing sustainability initiatives
- **Workshop #2:** Confirm mission statement and goals/objectives; identify sustainability initiatives and evaluation criteria
- **Workshop #3:** Discuss implementation plan; Identify sustainability performance targets
- **Workshop #4:** Presentation of final report and implementation plan

The workshops will be highly interactive and engaging, and through upfront preparation, will be very productive. As part of the implementation plan developed during this project, it is envisioned that the Airport Sustainability Committee would remain active to ensure that the Plan's recommendations are acted upon and sustainability performance is tracked.

¹http://www.faa.gov/airports/environmental/sustainability/media/interim_guidance_sustainable_master_plan_pilot.pdf



Communications Plan

[RFQ Scope Item] 3. Definition of the methods and medium for the communication of the Plan to airport employees, tenants, and the community.

The VHB team will prepare a memorandum that outlines the communications strategy and outreach process that will be used during the course of the project. The Sustainability Management Plan will maximize the resources of the City to ensure the Airport’s planning process and commitment to sustainability are communicated effectively to its employees, airport tenants and users, and the neighboring community. To the greatest extent practicable, the VHB team will use current mediums for communicating to stakeholders. For example, regular tenant coordination meetings and the Airport Advisory Board events will be utilized to provide presentations during key points in the planning process. Throughout the course of the study, electronic newsletters may be distributed to stakeholders and could be posted to the Airport’s website, Facebook page, and/or distributed via e-mail. The VHB Team will also engage airport tenants through the use of an online survey to develop a greater understanding of what is occurring and what initiatives could be enhanced through tenant partnerships. The implementation plan developed as part of this project will also consider the most effective on-going communications techniques.

VHB Team members David Bardt and Eileen Velez-Vega (Kimley-Horn) regularly provide project updates and professional guidance to FXE’s Aviation Advisory Board (AAB). Their participation in our team’s coordination efforts will provide an instant “level of comfort” and allow for greater efficiency during our coordination with the AAB.

Stakeholder and Public Outreach

[RFQ Scope Item] 9. Participate in public outreach meetings to describe the proposed Sustainable Management Plan and goals to the community. Consultant will assist FXE with providing presentation materials regarding the proposed sustainability measures at the Airport for use in public outreach efforts.

In addition to close coordination with the FXE project management team and review and input provided by the Airport Sustainability Committee, the VHB Team will meet with the public. As noted in FAA’s sustainability planning guidance, airport neighbors can provide valuable input to the Airport’s goals and initiatives. Ben Siwinski and Autumn Young are currently assisting the FAA with updating the agency’s Public Involvement Advisory Circular (150/5050-4), and will use their experience with the public to effectively engage, inform, and solicit information from the community.

The VHB Team will meet with the following groups at two times during the course of the study as part of the outreach program:

- Airport users and tenants
- Aviation Advisory Board
- City of Ft. Lauderdale
 - Sustainability Division of Public Works
 - Dr. Nancy Gasman, Sustainability Manager
 - Heather Steyn, Sustainability Specialist
 - Sustainability Advisory Board
 - Resource Sustainability Group

Prepare Sustainability Baseline Assessment

[RFQ Scope Item] 6. Conduct a baseline inventory or assessment of each defined sustainability category. The baseline assessment shall include acknowledgement of the proposed goals, discussion of any federal, state, or local mandates, if any, and narrative assessment of existing conditions at time of inventory.

The sustainability baseline assessment is a critical initial step to understand the current state of sustainability at the Airport. The baseline assessment will gather data in the following topic areas:

- Natural resources (including water)
- Air quality/greenhouse gas emissions (GHG)



- Purchasing
- People (Airport and tenant employees, and community involvement)
- Noise abatement
- Waste management/recycling
- Transportation connectivity
- Infrastructure resilience

Typically, sustainability baseline assessment data gathering is a labor-intensive process that can stress a project schedule at the early stages. The VHB Team will provide resources to enhance the efficiency of the data gathering process with the following:

- **Trusted local Airport partners.** ACAI and Kimley-Horn have worked extensively on planning, design, and construction projects at FXE for years, and already have extensive data and information that will be needed for an efficient baseline assessment. For other information, the firms' proximity and familiarity with the Airport will ensure an efficient process.
- **Sustainability Planning Optimization Tools, or SPOT.** Due to our extensive sustainability planning experience, VHB has developed a suite of tools to enhance efficiency of the planning process; improve coordination between the client, consultant, and subconsultants; and assist our clients' sustainability tracking and reporting requirements. An important component of SPOT is the Sustainability Baseline Data Collection Tool—a web-based resources that can be accessed by FXE and the VHB Team to store documents, respond to data requests, and enter information in a user-friendly way that feeds directly into the baseline assessment report. VHB's suite of sustainability planning tools are discussed further in this section ("Available Facilities, Technological Capabilities and Other Available Resources").

During the course of the baseline assessment process, the VHB Team will identify data gaps, or information that is not tracked by FXE. These data gaps may evolve into recommendations later in the study to start tracking the type of data that was originally requested. VHB has found that tracking data typically is low cost and can be used as a tool to identify anomalies and aids in enhancing performance and monitoring in the future.

Develop Sustainability Mission Statement and Goals

[RFQ Scope Item] 4. Development of a Sustainability Mission Statement and associated goals, objectives, and actions to be formally communicated to the Airport's employees, tenants, users and the public through the following:

- a. **Informational signs at strategic locations throughout the Airport;**
- b. **City of Fort Lauderdale Vision Plan;**
- c. **City of Fort Lauderdale Strategic Plan;**
- d. **City of Fort Lauderdale Sustainability Action Plan;**
- e. **Southeast Florida Regional Climate Action Plan;**
- f. **The FXE web site;**

[RFQ Scope Item] 5. Define the range of sustainability categories/activities conducted at FXE to be addressed in the planning process and incorporated into the Plan along with existing sustainability activities of airport tenants.

Goal setting and identification of objectives to meet each goal is a collaborative effort that will be accomplished with the Airport Sustainability Committee, with additional input from the stakeholders and community.

First, the City's sustainability goals should be considered for their applicability to the Airport setting and operational limitations. Starting with the City's goals will ensure consistency and connect the Airport to the municipality's efforts for potential opportunities to capitalize on similar efforts.



Next, a brainstorming session (Workshop #1, described previously in this section), will be conducted to define the additional focus areas of the sustainability plan. Ideas for the sustainability mission statement and supporting goals and objectives will be discussed and prioritized. The VHB team will summarize the information from the meeting in a memorandum which will include a recommended mission statement, goals, and objectives based on the input and direction from FXE and its stakeholders. A second workshop will be held to revise, if necessary, and for the Airport to confirm the sustainability mission statement and goals, and objectives.

The sustainability mission statement, goals, and objectives will be communicated to stakeholders through a variety of means. It is anticipated that this information will be incorporated into City and regional Plans, but will also be shared through social media, including the Airport’s website, and through more traditional techniques such as signage and newsletters.

The categories and initiatives recommended for inclusion the final report will be based on the Airport’s selected goals and objectives. This may or may not include areas focused on in the baseline assessment, depending on the potential and ability for advancement of the Airport’s sustainable performance. Potential categories may include, but are not limited to, the following focus areas:

- Energy
- Community
- Natural Resources
- Waste Management/Recycling
- Climate Change Adaptation and Resiliency

The VHB Team will draw on its extensive experience participating in the Transportation Research Board’s (TRB) Airport Cooperative Research Program (ACRP) to identify innovative sustainability strategies for FXE.

ACRP 02-10 (Report 56): Practical Greenhouse Gas Emission Reduction Strategies for Airports (KBE)

ACRP 02-13 (Report 43): A Guidebook for Improving Environmental Performance at Small Airports (VHB, KBE)

ACRP 02-17: Measuring PM Emissions from Ground Support Equipment, Auxiliary Power Units, and Tires and Brakes (KBE)

ACRP 02-21: Evaluation of Airport Emissions in State Implementation Plans (KBE)

ACRP 02-23 (Web-only Document 13): Alternative Fuels as a Means to Reduce PM2.5 Emissions at Airports (KBE)

ACRP 02-28: Airport Sustainability Practices: Tools for Evaluating, Measuring, and Implementing (VHB)

ACRP 02-30: Enhancing the Airport-Industry SAGA Website (VHB)

ACRP 09-06: Evaluating Impacts of Sustainability Practices on Airport Operations and Maintenance (VHB)

Identify Sustainability Initiatives

[RFQ Scope Item] 8. Identify and describe a range of specific sustainability initiatives/actions addressing items including, but not necessarily limited to, airport operations and procedures, storm water management, water conservation, land use options, facility construction and development, energy conservation, energy alternatives, aircraft operational procedures, hazardous materials, noise abatement, sea-level rise, and recycling activities to help FXE achieve each set goal.

The Airport Sustainability Committee, assisted by the entire VHB Team, will be engaged in identifying and evaluating candidate sustainability initiatives to meet the Airport’s sustainability goals and objectives. Some of the initiatives will be developed based on the specialized analyses conducted during the course of the study (GHG emissions inventory, solid waste audit, building energy review). Additional initiatives will be identified by the Stakeholder groups, public, professional experience of the VHB Team. Sustainability initiatives will also be identified from resources such as the Sustainable Aviation Guidance Alliance (SAGA) database, ACRP research projects, and VHB’s *Sustainability Best Practices Database tool*.

Initiatives will be evaluated based on criteria defined by FXE to effectiveness and costs. Implementation and on-going maintenance costs will likely weigh heavily on Airport decision-making. To aid in the evaluation process, VHB will input all reasonable initiatives identified by the team and screening criteria into its Sustainability Strategy Screening tool. In addition

to costs, screening criteria typically include personnel requirements, sustainability impact, payback time period (return on investment) and funding/grant eligibility.

A critical part of the evaluation process is applicability of regulations and laws at the federal, state, and local levels related to sustainability and grant eligibility and/or financing approaches for initiatives. Several federal, state, and local regulations related to GHG management, green building and energy codes, energy or renewable energy financing and various agency mandates are continually evolving, and as such, could have a significant influence on the ability to implement the various



strategies that result from the planning process. Changing minimum standards, incentive programs, and creative financing models can all significantly shape the outcomes and effectiveness of the Sustainability Management Plan.

Carol Lurie was part of an industry group that developed the SAGA database of sustainable initiatives in place at airports nationwide. Carol and Autumn Young Ward are currently part of a VHB research team that is updating the SAGA database (ACRP Project 02-30).

Additionally, FAA has expanded its AIP-eligible funding recently for energy-related initiatives (including this planning study) but airport sponsors need to look beyond the traditional funding sources to identify federal, state, and local programs that can reduce sponsor costs, further leverage limited budgetary allocations, and lower payback periods of sustainability-related developments. Erin Deady, PA, AICP, LEED AP will provide regulatory and funding strategies guidance. *Erin has secured over \$6 million in grant funding for energy, economic development and sustainability client projects and programs.*

An interesting feature of some sustainability plans conducted by VHB is university student participation, which is fully supported by the FAA. For example, Jacksonville University (Northeast Florida Regional Airport), Ithaca College (Ithaca Tompkins Regional Airport), and Penn State University (University Park Airport) students have been engaged to provide supplemental research on innovative sustainability strategies. The City could consider engaging Nova Southeastern University² or Broward College³ to participate in this exciting study, and the VHB team would be honored to assist in providing a valuable educational opportunity for future sustainability professionals.

An important regional sustainability effort that will be considered is the Southeast Florida Regional Climate Action Plan (the Compact). Key ways that the Compact will be incorporated into various initiatives include:

1. **Unified Sea Level Rise projections.** A primary effort of the Compact was to arrive at “unified” sea level rise projections that can be used by South Florida agencies and governmental entities for future planning. The value of having a “unified” projection is that numerous technical inputs were examined and the Compact participants harmonized those inputs in one projection. Several local governments are now integrating those projections into their Comprehensive Plans. *Stormwater capacity and resiliency reviews in the Sustainability Management Plan will use these sea level rise projections.*
2. **Regional GHG Emissions.** Another effort was to create a regional GHG inventory. The value in this effort is that sometimes large emissions sources may not lie squarely within municipal or county boundaries and a regional inventory addresses this disparity. *The GHG emissions inventory results prepared for the Sustainability Management Plan using FAA modeling techniques will be compared to the regional GHG emissions for context.*
3. **Recommendations and Implementation Guide.** The Compact contains 110 Action Items and an Implementation Guide. *To the extent that these Action Items address sustainability and climate-related issues that the Airport is facing, they should be integrated into the Sustainability Management Plan, including cooperative opportunities to implement initiatives.*

Identify Sustainability Performance Targets

[RFQ Scope Item] 7. For each sustainability category, establish measurable goals with specific targets to minimize the impact of energy consumption and to reduce FXE’s overall environmental footprint.

Close coordination with the Airport Sustainability Committee is critical during this stage of the planning process. A focused visioning session with the Committee, with similar sessions conducted afterwards with Stakeholder groups will produce performance targets that are aggressive yet achievable and consistent with the City’s sustainability planning efforts. The performance targets will be developed closely with representatives from each of the functional areas of the organization that will be responsible for achieving the targets.

2 <http://www.nova.edu/gogreen/sustainability/>

3 <http://www.broward.edu/teamgreen/Pages/default.aspx>



Federal, state, and local regulations will also be reviewed to determine if performance targets should be tied to them. For example, local governments⁴ in the State of Florida are required to build to a green building standard.⁵ This could result in a performance target that any new Airport facilities should be constructed to one of these standards. From a GHG emissions standpoint, the June 2013 President’s Climate Action Plan continues the commitment to reduce U.S. greenhouse gas emissions in the range of 17 percent below 2005 levels by 2020. Additionally, the State of Florida has Executive Order 07-126, signed by Governor Crist on July 13, 2007, setting near-term GHG emissions goals for state agencies—a 10% reduction from 2007 levels by 2012, a 25% reduction by 2017, and a 40% reduction by 2025, although not binding in the Florida Statutes. There are currently no new bills in the 2014 legislative session involving either of these standards, but the regulatory setting for emissions should be closely tracked during this project to assure that performance targets are logical and current.

Develop Sustainable Design Criteria Manual

[RFQ Scope Item] 11. Develop a Sustainable Design Criteria Manual for capital development.

When developing a sustainable design criteria manual, the VHB team will work to identify areas where sustainable practices can have the most impact by focusing on strategies that can be implemented during the design phase. Categories of sustainable design criteria would include, but not be limited to:

- Integrated design management processes
- Passive design such building orientation, façade design, and site design
- Water conservation (outside and inside the building)
- Interior air quality
- Material and finish selection (considering recycled materials, life-cycle costs, etc.)
- Energy efficiency
- Stormwater management
- Features that promote sustainable behavior by patrons and occupants such as green parking, bicycle racks and signage promoting the use of stairs
- Post occupancy progress tracking and corrective measures

The selected design criteria will focus on cost-effective strategies that could be readily implemented through an innovative and collaborative workflow by the stakeholders in the design and construction process.

VHB is also a charter member of the Institute of Sustainable Infrastructure (ISI). Airports in the U.S. are starting to integrate ISI’s Envision™ into its planning processes to ensure the sustainability of horizontal infrastructure development. A rating system focused on this type of development is important to understand and apply to the City’s efforts for ground-leasing of commercial properties at the Airport.

“Envision™ provides a holistic framework for evaluating and rating the community, environmental and economic benefits of all types and sizes of infrastructure projects. It evaluates, grades, and gives recognition to infrastructure projects that use transformational, collaborative approaches to assess the sustainability indicators over the course of the project’s life cycle.” VHB has over 100 certified Envision Sustainability Professionals, including Ben Siwinski, Autumn Young Ward and Carol Lurie, and is committed to integrating sustainability thinking into all our work.

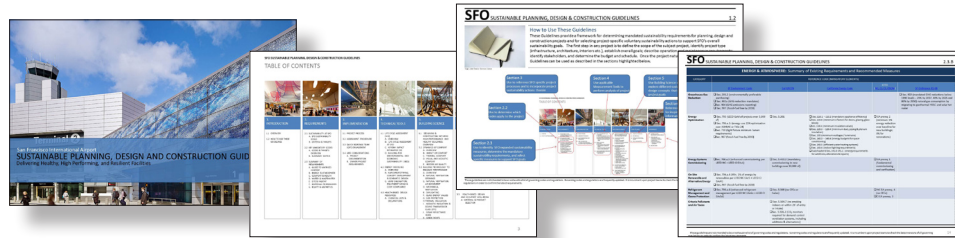
<http://www.sustainableinfrastructure.org/rating/index.cfm>

⁴ All county, municipal, school district, water management district, state university, Florida College System institution, and state court buildings.

⁵ A rating system established by the United States Green Building Council (USGBC) Leadership in Energy and Environmental Design (LEED) rating system, the International Green Construction Code (IGCC), the Green Building Initiative’s Green Globes rating system, the Florida Green Building Coalition standards, or a nationally recognized, high-performance green building rating system as approved by the department.

FXE has established the Achievements in Community Excellence (ACE) awards program to recognize tenants, businesses, and individuals for making exceptional efforts to comply with the measures of the Airport's Noise Abatement Program; striving to help make the airport a better neighbor to the surrounding community; and providing outstanding leadership in the areas of economic development and community outreach. Continuation of the ACE awards program to include areas of sustainability would be an effective implementation measure.

This would include early involvement of contractors and subcontractors to provide constructability input to the design team regarding sustainable design strategies. The goal would be to facilitate early decision-making and the best use of resources to maximize the benefit of the sustainable features and to minimize the cost impact of implementation of such features.



San Francisco International Airport Sustainable Planning, Design and Construction Guidelines prepared by a team led by VHB

In addition to key VHB staff members having helped to develop LEED guidelines, VHB has prepared Design Guidelines for Planning, Design, and Construction for San Francisco International Airport. VHB team members, Kimley-Horn and ACAI have been partnered with the Airport in recent sustainable design and construction projects that will serve as a basis for the Sustainable Design Criteria Manual.

Develop Sustainability Implementation and Performance Tracking Program

[RFQ Scope Item] 4.g. An annual sustainability report card to track and document the Plan's progress which will be linked to the City's sustainability scorecard developed in the City of Fort Lauderdale's ClearPoint system. (Note: the objective is to not create something new but to determine what metrics work best for the airport.)

Throughout the planning process, the VHB team will consider the real-world application of projects at FXE. Through the use of our suite of efficiency-enhancing tools, specifically the Sustainability Strategy Screening tool and the Sustainability Performance Tracking tool (report card), and the Sustainability Design Criteria Manual itself, the City's and FAA's investment will last for many years to come.

In addition to setting up a process for continuous sustainability improvement, implementation will lie in the hands of the FXE team. The plan will clearly identify the responsible departments of the organization that will be implementing each initiative. Coordination throughout the course of the study with all functional departments will ensure that input is received and the plan can adapt to different departmental needs. Department rewards can be issued to those parts of the organization that meet its sustainability performance targets, or identify new and creative sustainability initiatives.

Sustainability performance tracking will allow for continuous improvement. The VHB Team specializes in provided each airport client tracking tools that fit into THEIR current systems and processes. Understanding an airport's or municipality's current performance tracking system enhances the effectiveness of the sustainability plan itself. In the case of FXE, VHB will develop a system to seamlessly integrate sustainability performance tracking for the Airport into the City's ClearPoint system.

Produce Sustainable Management Plan Documentation

[RFQ Scope Item] 10. Develop a draft Sustainable Management Plan for review by Airport staff, tenants, and interested stakeholders, and the City's Sustainability Advisory Board. Comments received will be incorporated into a final report.

[RFQ Scope Item] 12. Develop Sustainable Management Plan in compliance with City, County, and Regional sustainability criteria, including, but not limited to, the following: City of Fort Lauderdale Vision Plan 2035, Sustainability Action Plan, Broward Climate Change Action Plan and Southeast Florida Regional Climate Action Plan, as well guidance to pursue ISO9001 and ISO14001 certification.

The VHB team believes in celebrating your successes. This means that airports should promote all of the actions they take to be good neighbors—going above and beyond the many regulations that are part of its every day operation. A branded approach and well-designed Sustainability

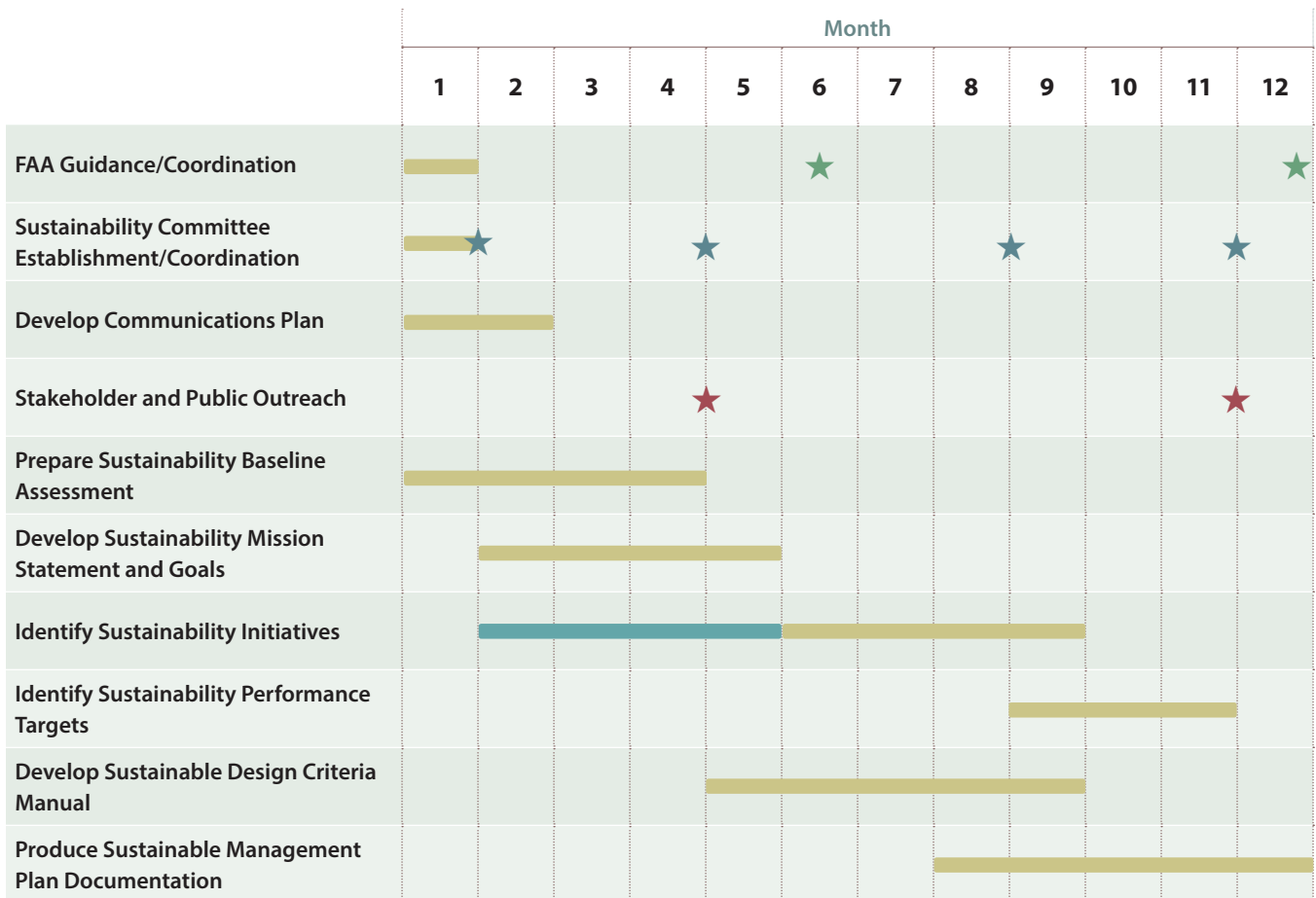


Management Plan report that is accessible to the public and local decision-makers, yet detailed enough to demonstrate to the regulatory community that your organization is a good steward of the environment, can go a long way in enhancing the value of the City's and FAA's investment.



Proposed Project Schedule

The VHB Team is committed to completing the FXE Sustainability Management Plan within 12 months of the Notice to Proceed, as shown in the following project schedule. Based on our experience and a clear understanding of the challenges associated with conducting airport sustainability plans, we have formed a team that is based locally and will fully use our sustainability planning efficiency tools to meet the schedule requirements.



- ★ Airport Sustainability Committee Meeting
- ★ Stakeholder/Public Workshop
- ★ FAA Lessons Learned Memo Report
- Preliminary Initiatives Identification



Current Workload and Project Availability

The VHB Team is committed to efficiently delivering an actionable Sustainability Management Plan for the City to implement at FXE. The availability and dedication of key team members is a critical component of our commitment. Although various team members’ involvement will ebb and flow during the course of the project, the Project Management team of Ben Siwinski, Autumn Young Ward and Carol Lurie will remain constant. The availability of the Project Management team is:

PROJECT MANAGEMENT TEAM MEMBER	PROJECT ROLE	AVERAGE PERCENT OF TIME AVAILABLE FOR PROJECT
Ben Siwinski, CM, ENV SP	Project Manager	30%
Autumn Young Ward, CM, ENV SP	Deputy Project Manager	35%
Carol Lurie, LEED AP, AICP, ENV SP	Principal-in-Charge/ Senior Sustainability Advisor	15%

Available Facilities, Technological Capabilities, and Other Available Resources

There are three strengths of the VHB Team with regards to available facilities and technological capabilities. First, the proximity of key team members—ACAI, Kimley-Horn, and Erin Deady, PA—to FXE will aid in efficient baseline data collection and coordination with Airport staff.

LOCAL VHB TEAM MEMBER	OFFICE ADDRESS	DISTANCE TO FXE
ACAI Associates	2937 W. Cypress Creek Road, Ft. Lauderdale, FL	1 mile
Kimley-Horn	600 North Pine Island Road, Plantation, FL	11 miles
	4431 Embarcadero Dr., West Palm Beach, FL	44 miles
Erin Deady, PA	1111 Hypoluxo Road, Lantana, FL	29 miles

Second, the VHB Team offers a unique set of skills relating to experience with numerous local and regional sustainability efforts across Florida addressing legislative, regulatory and other technical aspects assuring consistency with latest rules and laws.

Third, VHB has developed key efficiency-related tools to deliver sustainability planning products to our airport partners. FXE staff will benefit from the use of the following items in its Sustainability Management Plan:

- **Baseline Data Collection Tool**—enhances efficiency of baseline data collection process
- **Sustainability Planning Progress Tool**— cloud-based app to track communications between client, VHB, and stakeholders
- **Sustainability Best Practices Database Tool**—leverages years of conducting sustainability plans to offer quick and easy reference guide to most effective initiatives
- **Sustainability Strategy Screening Tool**— decision matrix for evaluating and prioritizing potential initiatives
- **Key-Pad Polling Tool**—instant polling results for use in sustainability visioning sessions
- **Sustainability Performance Tracking Tool**—customizable database to enter performance metric data for future tracking and reporting (can be integrated in the City’s existing tracking mechanism)



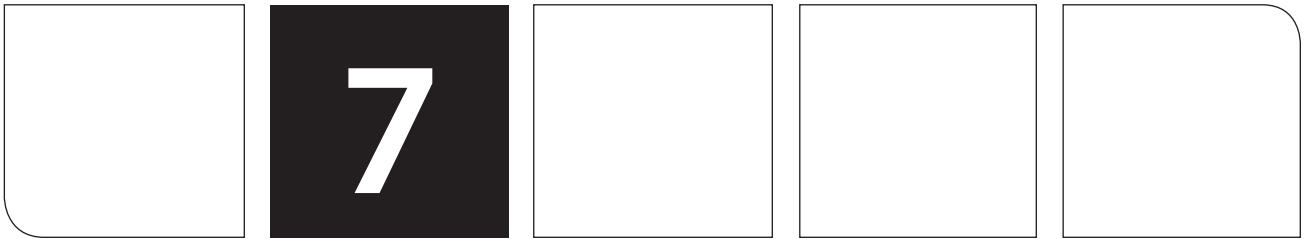
VHB’s Sustainable Planning Optimization Tools, or SPOT, enhance the efficiency and effectiveness of our planning projects.



VHB's Baseline Data Collection Tool was used effectively in coordination with local consultant team members for the Dayton International Airport Sustainability Master Plan. The entire consultant team and Airport staff can access data requests and input ideas for future sustainability initiatives at any time during the planning process.



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References

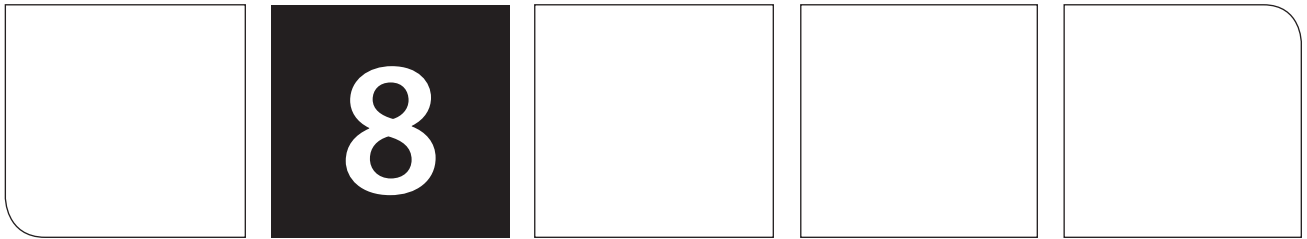
7 References

We invite you to call our clients to hear first-hand how VHB's knowledge and professionalism will help the City on this project. VHB references are highlighted below. References for our subconsultants are included on the 330 project sheets in Section 3.

CLIENT	CONTACT INFORMATION	PROJECT/SERVICES	CONSTRUCTION COST
Salt Lake City International Airport 776 N. Terminal Drive Salt Lake City, Utah 84122	Patty Nelis Environmental Program Manager 801.575.3472 FAX 801.575.2395 patty.nelis@slcgov.com	VHB is developing a Sustainability Management Plan for Salt Lake City International Airport.	N/A
City of Dayton Department of Aviation Dayton International Airport 3600 Terminal Drive Dayton, OH 45377	Mike Cross Environmental Scientist 937.454.8226 Fax 937.454.8220 mcross@flydayton.com	VHB was retained by the City of Dayton's Department of Aviation to prepare a Sustainability Master Plan for Dayton International Airport.	N/A
Dane County Regional Airport 4000 International Ln Madison, WI 53704	Michael Kirchner Engineering Director 608.246.3380 x 1393 Fax 608.246.3385 kirchner@msnairport.com	VHB is preparing a Sustainability Plan for Dane County Regional Airport in Madison, WI.	N/A



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DBE Participation


8

DBE Participation

VHB is committed to meeting DBE procurement goals for this project. Our team includes two DBE-certified firms:

- **KB Environmental Sciences, Inc.** will provide air quality, GHG, and hazardous materials services. KBE is certified in all 50 states, including Florida. (Certification below)
- **ACAI Associates, Inc.,** will be responsible for architecture, sustainable design criteria manual, and baseline assessment data collection. (Certification on following page)

KBE Certification



Florida Department of Transportation

JEB BUSH
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

DENVER J. STUTLER, JR.
SECRETARY

May 15, 2006

Certified Mail – Return Receipt Requested

KB Environmental Sciences, Inc.,
Ms. Carol Bryant
9500 Koger Boulevard, Suite 211
St. Petersburg, FL 33702

The FDOT requests that parties interested in verifying the status of a firm's DBE certification do so at the following website:
<http://www.dot.state.fl.us/equalopportunityoffice/>

ANNIVERSARY DATE – Annually on May 15

Dear Ms. Bryant:

The Florida Department of Transportation [FDOT] is pleased to announce that your firm is certified under the **Florida Unified Certification Program [UCP]** as a **Disadvantaged Business Enterprise [DBE]** in accordance with Part 49 Section 26, Code of Federal Regulations.


DBE certification is continuing, but is contingent upon the firm maintaining its eligibility annually through this office. You will be notified of your annual responsibilities in advance of the **Anniversary Date**. You must submit the annual **AFFIDAVIT FOR CONTINUING ELIGIBILITY** no later than the **Anniversary Date**. Failure to do so will result in immediate action to decertify the firm.

Only those firms listed in the UCP DBE Directory, are certified by Florida UCP Members. Prime contractors and consultants are urged to verify your firm's current certification status of the firm through this Directory.

Your firm will be listed in Florida's UCP DBE Directory which can be accessed via the internet, at <http://www.bipincwebapps.com/biznetflorida/> or through The Department' website at www.dot.state.fl.us/equalopportunityoffice/, then select "DBE Directory."

DBE certification is **NOT** a guarantee of work, but enables the firm to compete for, and perform, contract work on all USDOT Federal Aid (FAA, FTA and FHWA) projects in Florida as a DBE contractor, sub-contractor, consultant, sub-consultant or material supplier.

www.dot.state.fl.us



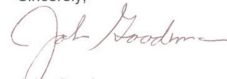
projects in Florida is a DBE contractor, sub-contractor, consultant, sub-consultant or material supplier. If, at any time, there is a material change in the firm, including, but not limited to, ownership, officers, Directors, scope of work being performed, daily operations, affiliations with other businesses or individuals or physical location of the firm, you must notify this office, in writing, within (30) days. Notification should include supporting documentation. You will receive timely instruction from this office as to how you should proceed, if necessary.

Your firm is eligible to compete for, and perform, work on all USDOT Federal Aid projects throughout Florida, and may earn DBE credit for work performed in the following areas:

NAICS:	FDOT Specialty Code & Description
541990	300-All Other Professional, Scientific And Technical Services
541310	306-Architectural Services
541340	947-CADD Services

All questions or concerns should be directed to this office by mail or telephone. Our telephone number is (850) 414-4747. Our Fax number is (850) 414-4879.

Sincerely,



John Goodeman
DBE Certification Manager



ACAI Certification



Florida Department of Transportation

CHARLIE CRIST
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

STEPHANIE C. KOPELOUSOS
SECRETARY

December 5, 2007

Certified Mail – Return Receipt Requested

ACAI Associates, Inc.
Mr. Adolpho J. Cotilla, Jr.
2937 W. Cypress Creek Rd., Ste. 200
Ft. Lauderdale FL 33309

ANIVERSARY DATE- Annually on July 25

Dear Mr. Cotilla:

The Florida Department of Transportation [FDOT] is pleased to announce that your firm is certified under the **Florida Unified Certification Program [UCP]** as a **Disadvantaged Business Enterprise [DBE]** in accordance with Part 49 Section 26, Code of Federal Regulations.

DBE certification is continuing, but is contingent upon the firm maintaining its eligibility annually through this office. You will be notified of your annual responsibilities in advance of the **Anniversary Date**. You must submit the annual **AFFIDAVIT FOR CONTINUING ELIGIBILITY** no later than the **Anniversary Date**. Failure to do so will result in immediate action to decertify the firm.

Only those firms listed in the UCP DBE Directory, are certified by Florida UCP Members. **Prime contractors and consultants should verify your firms DBE certification status, and identify the only work area(s) for which the firm is DBE eligible, through this Directory.**

Your firm will be listed in Florida's UCP DBE Directory which can be accessed via the internet, at <http://www.bipincwebapps.com/biznetflorida/> or through The Department' website at www.dot.state.fl.us/equalopportunityoffice, then select "DBE Directory."

DBE certification is **NOT** a/ guarantee of work, but enables the firm to compete for, and perform, contract work on all USDOT Federal Aid (FAA, FTA and FHWA)

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projects in Florida is a DBE contractor, sub-contractor, consultant, sub-consultant or material supplier.

If, at any time, there is a material change in the firm, including, but not limited to, ownership, officers, Directors, scope of work being performed, daily operations, affiliations with other businesses or individuals or physical location of the firm, you must notify this office, in writing, within (30) days. Notification should include supporting documentation. You will receive timely instruction from this office as to how you should proceed, if necessary.

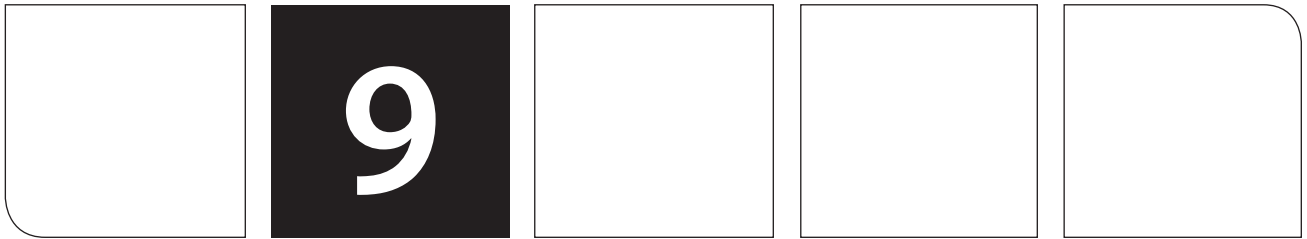
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All questions or concerns should be directed to this office by mail or telephone. Our telephone number is (850) 414-4747. Our Fax number is (850) 414-4879.

Sincerely,

John Goodeman
DBE Certification Manager



Sample Insurance Certificate

9

Sample Insurance Certificate



CERTIFICATE OF LIABILITY INSURANCE

OP ID: PB

DATE (MM/DD/YYYY)
07/02/2013

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

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

PRODUCER Poole Professional Ltd. 107 Audubon Rd. #2, Ste. 305 Wakefield, MA 01880 Christopher A. Poole	Phone: 781-245-5400 Fax: 781-245-5463	CONTACT NAME: _____ PHONE (A/C, No., Ext): _____ FAX (A/C, No): _____ E-MAIL ADDRESS: _____ PRODUCER CUSTOMER ID #: VANAS-1													
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INSURER F : Charter Oak Fire Ins. Co.	25615														
INSURED Vanasse Hangen Brustlin, Inc.; VHB Engineering, Surveying & Landscape Arch.,PC.,Vanasse Hangen Brustlin,LLC,MSCW,Inc. & VHB, VHB Eng. NC, PC P. O. Box 9151 Watertown, MA 02471															

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

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

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY		680-2611L561-TCT-13 INSURANCE IS PRIMARY INCL. BLANKET WAIVER	05/01/2013	05/01/2014	EACH OCCURRENCE \$ 1,000,000
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY					DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR					MED EXP (Any one person) \$ 10,000
	<input checked="" type="checkbox"/> Business Owners					PERSONAL & ADV INJURY \$ 1,000,000
	<input checked="" type="checkbox"/> Contractual Liab					GENERAL AGGREGATE \$ 2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:					PRODUCTS - COMP/OP AGG \$ 2,000,000
	<input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC					\$
E	AUTOMOBILE LIABILITY		1501873	06/13/2013	06/13/2014	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
	<input checked="" type="checkbox"/> ANY AUTO					BODILY INJURY (Per person) \$
C	<input checked="" type="checkbox"/> ALL OWNED AUTOS		BA-2044L84A-13-GRP	05/01/2013	05/01/2014	BODILY INJURY (Per accident) \$
D	<input checked="" type="checkbox"/> SCHEDULED AUTOS		BA-2067L575-13-GRP	05/01/2013	05/01/2014	PROPERTY DAMAGE (Per accident) \$
B	<input checked="" type="checkbox"/> HIRED AUTOS		BA-2043L055-13-GRP	05/01/2013	05/01/2014	\$
	<input checked="" type="checkbox"/> NON-OWNED AUTOS					\$
D	<input checked="" type="checkbox"/> UMBRELLA LIAB	<input checked="" type="checkbox"/> OCCUR	UP0D314787	05/01/2013	05/01/2014	EACH OCCURRENCE \$ 10,000,000
	<input type="checkbox"/> EXCESS LIAB	<input type="checkbox"/> CLAIMS-MADE				AGGREGATE \$ 10,000,000
	<input type="checkbox"/> DEDUCTIBLE					\$
	<input checked="" type="checkbox"/> RETENTION \$ 10,000					\$
F	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	Y/N	XVMPAUB-5825Y49-6-13 MA,CT,RI,NH,NY,FL,VT,NC	05/01/2013	05/01/2014	<input checked="" type="checkbox"/> WC STATU-TORY LIMITS <input type="checkbox"/> OTH-ER
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	N/A				E.L. EACH ACCIDENT \$ 1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below					E.L. DISEASE - EA EMPLOYEE \$ 1,000,000
						E.L. DISEASE - POLICY LIMIT \$ 1,000,000
A	Prof. Office Packa		680-2611L561-TCT-13 INSURANCE IS PRIMARY	05/01/2013	05/01/2014	Valuable Records 2,250,000

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

CERTIFICATE HOLDER PROPO-1 For Proposal Use Only	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
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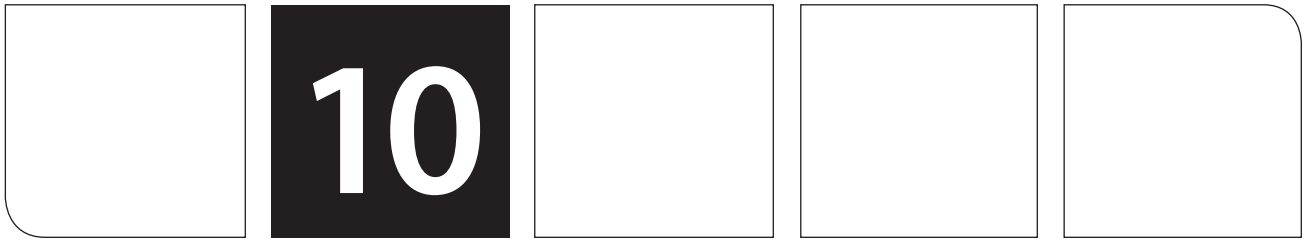
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Joint Ventures

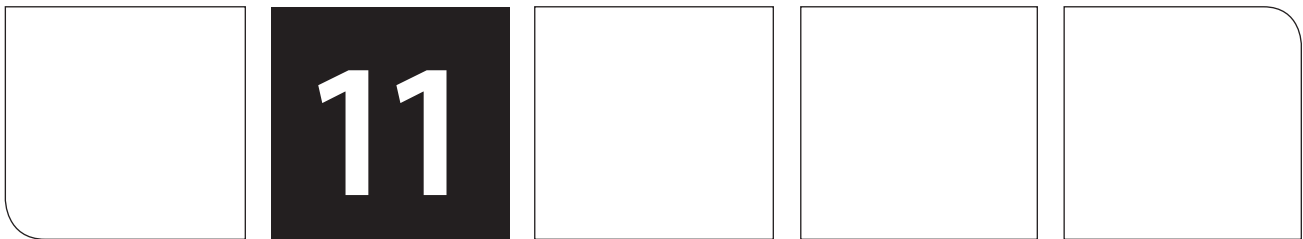
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Joint Ventures

Not Applicable to the VHB Team



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Subconsultants

Subconsultants

VHB has selected the following highly qualified subconsultants to join our team for this project.



Kimley-Horn and Associates, Inc.

Anticipated Services: Sustainable Design Criteria Manual, Baseline Assessment Data Collection

Firm Overview: Kimley-Horn is a full-service, multidisciplinary consulting firm with more than 2,000 employees in 60 offices nationwide offering a full range of consulting services to local, regional, national, and international clients. In Florida alone, there are more than 430 employees in 14 offices, 20 devoted full time to serving aviation clients. Kimley-Horn offers comprehensive airside and landside services to meet wide-ranging needs at airports large and small. Staff also has extensive experience and is very familiar with the procedures and requirements of the Federal Aviation Administration (FAA) and the Florida Department of Transportation.



ACAI Associates, Inc.

Anticipated Services: Architecture, Sustainable Design Criteria Manual, Baseline Assessment Data Collection

Firm Overview: ACAI was founded in 1985, offering a wide range of services including planning, architecture, engineering, landscape architecture, roof consulting and construction management. ACAI has provided services on virtually all types of projects. Design work runs the gamut from master planning through construction administration (CA) services for medical, educational, residential, industrial and commercial facilities. Engineering work has focused on roofing consulting, including investigation, reports, recommendations and design. ACAI believes that good architecture is the physical manifestation of good ideas. The firm strives to create facilities that reflect a unique synthesis of their mission, functional purpose and, appropriately, express the spirit and personality of their ownership. Design work is delivered through Building Information Modeling. ACAI is a certified Minority Business Enterprise (MBE) in Florida.



KB Environmental Sciences, Inc.

Anticipated Services: Air Quality/GHG, Hazardous Materials

Firm Overview: KB Environmental Sciences, Inc. (KBE) specializes in providing air quality, noise, haz. mat., climate change and health risk assessment services to a wide array of private and public clients within Florida, across the U.S. and around the world. With an emphasis on airports and airway facilities, there are few companies with the level of expertise and breadth of experience in these highly specialized fields. As a small business, the company is streamlined, easily accessible and able to offer individual attention to the unique and challenging issues facing its clients. KBE is a certified Disadvantaged Business Enterprise (DBE) in all 50 states, including Florida.



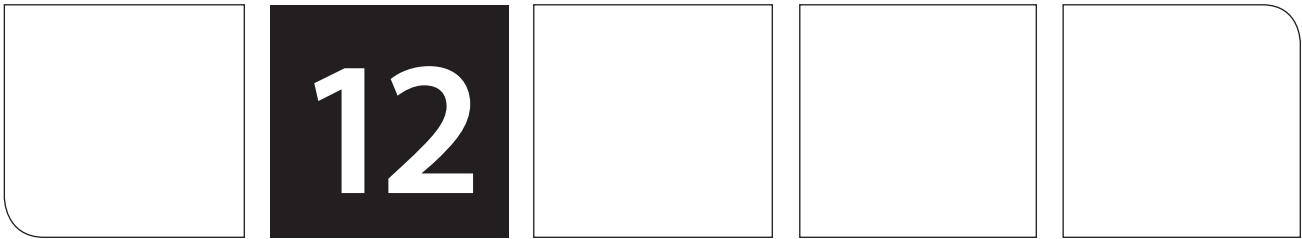
Erin Deady Law

Anticipated Services: State and Local Regulatory/ Legislative Issues, Regional GHG Planning Coordination

Firm Overview: Erin L. Deady, P.A., is a full service legal and consulting Small Business Administration federally-certified Woman-Owned firm. Firm President, Erin Deady, is a licensed attorney in Florida, a certified land planner and a LEED AP. The Firm's practice includes water, energy, climate, environmental, sustainability, local government, administrative law, utility and land use issues. The Firm's experience includes litigation, public finance, special purpose governmental representation and creation as well as land use planning. Ms. Deady has authored and co-authored eight (8) sustainability or climate plans for local governments throughout Florida. She is a frequent lecturer and author on climate change, energy and public finance issues statewide and nationally. Her practice is a Small Business Administration (SBA) federally-certified Woman-Owned firm.



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Non-Collusion Statement

NON-COLLUSION STATEMENT:

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

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

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

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

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

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

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

NAME

RELATIONSHIPS

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



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