

Solicitation 476-11948

Mitigation Services for
Fort Lauderdale Executive Airport, Parcel 21B

City of Fort Lauderdale

Submitted May 18, 2017 by:



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Suite 106
6635 W. Commercial Blvd.
Tamarac, FL 33319

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1.0 EXECUTIVE SUMMARY

Quest Ecology Inc. (Quest) brings a full understanding and skill set to fulfill the requirements of this contract. We offer the City of Fort Lauderdale a knowledgeable team of mitigation professionals who are highly qualified to perform each and every task required. Our team boasts 20+ years of experience with the planning, design and implementation of mitigation and habitat restoration projects, including site layout, bid management, agency coordination, Conservation Easement execution, and plant warranty close outs.

Since 1996, Quest staff members have been providing high quality, responsive, and efficient services in the areas of conservation area management, mitigation planning, construction oversight, vegetation monitoring and maintenance, erosion control inspections, landscape reviews, and permit compliance. This work has been accomplished throughout the State of Florida within a wide variety of habitat types and landscape locations. From large County owned preserves, to private mitigation and conservation banks, to airport infields and road rights of way, we have conducted protected species surveys and relocations, prepared management plans, and managed construction and maintenance bids. This strong level of experience in a variety of settings has resulted in a flexible, knowledgeable, and responsive staff that is capable of accommodating all of our Client's ecological service needs. Such relevant project experience also ensures our ability to meet schedules and avoid unforeseen situations and additional costs due to construction issues or permit conditions that require our immediate attention.

Quest was established in 1996 by Principal Ecologist Ms. Vivienne Handy, PWS. Our clients include a long list of municipalities, counties, and State agencies, including the Florida Department of Transportation (FDOT), South and Southwest Florida Water Management District (SFWMD, SWFWMD), the Florida Department of Environmental Protection (FDEP), and the Florida Fish and Wildlife Conservation Commission (FWC). For these entities we have successfully prepared **mitigation specifications**, habitat management plans, **monitoring programs**, **time-zero monitoring reports**, and **baseline inventories in support of Conservation Easements (CE)**, to name just a few.

Our two offices are located in Hillsborough County and **Broward County**. Our Broward office will shoulder the main responsibility for servicing this contract and based on location is ready to perform the required tasks efficiently and cost effectively. Quest is a **Broward County Certified Business Enterprise (CBE)** and this location effectively establishes Quest as a **Class C Business** under the **City of Fort Lauderdale Local Business Preference** ordinance. A copy of Quest's Broward County Business License is contained in Section 6 along with our **State of Florida MBE Certification**.

It is anticipated that the following staff will be utilized on this project:

Vivienne Handy, PWS, Principal-in-Charge and QA/QC Manager, will oversee contract administration and assure full commitment of Quest's resources to each task. A **Professional Wetland Scientist**, Ms. Handy's 30 years of experience places an emphasis on natural resource management, environmental permitting and preparation of environmental documents.

Our local, dedicated **Project Manager, Frank Kahoun, MS**, will manage the technical coordination and field staff oversight, and will be responsible for daily management of tasks and accurate production of deliverables. Mr. Kahoun has over 18 years of experience in the environmental consulting field, and has

lived and worked in south Florida for the past 22 years. He is also an **LIAF Certified Landscape Inspector and an ISA Certified Arborist.**

Other key individuals who will be assigned to this project are:

Senior Ecologist, David Bogardus, MS, Authorized Gopher Tortoise Agent, Tamarac, FL.

Senior Wildlife Biologist and Restoration Ecologist, David Gordon, Certified Prescribed Burn Manager, Wimauma, FL.

Senior Ecologist, Mary James, MA, PWS, Wimauma, FL.

Senior Ecologist, Lee Cook, MS, PWS, Wimauma, FL.

Ecologist, Rebecca Barkdoll, Authorized Gopher Tortoise Agent, Wimauma, FL.

In addition to the above Key and Senior Staff members, additional support staff will be at the disposal of the Quest Project Manager to assist with research, field data collection, document preparation and administrative tasks. This includes additional **staff ecologists, field technicians, GIS analysts, public involvement specialist and administrative assistants.** Credentials and certifications of the Quest Team include: three **Professional Wetland Scientists,** six **FDEP Certified Erosion Control Inspectors,** three **Licensed Florida Pesticide Applicators,** one **Master Bird Bander,** one **Certified Prescribed Burn Manager,** two **Gopher Tortoise Agents,** a **LIAF Certified Landscape Inspector** and an **ISA Certified Arborist.** Additional information on the above individuals is included in Section 2.0, Qualifications and Experience, SF330 and Section 3.0, Organizational Profile and Project Team.

This proposal will serve to demonstrate our abilities and experience in each of the Key elements of the Scope of Services:

- Establish Conservation Easement
- Develop Mitigation Specifications
- Environmental Construction Observation
- Mitigation Monitoring
- Miscellaneous Coordination for Compliance and Closeout

2.0 FIRM QUALIFICATIONS AND EXPERIENCE

2.1 *Business Structure, WMBE Status, Years of Experience*

Quest Ecology Inc. (Quest) is a state certified DBE and MBE (woman-owned) business specializing in ecological studies and natural resource management. **Quest was founded in October 1996**, and has grown to a dedicated **team of twelve** (12) professionals, specializing in wetland science, habitat restoration, land management, wildlife biology, environmental permitting, and public involvement. Quest is also a **Broward County CBE** and as such is classified as a **Class C Business** under the **City of Fort Lauderdale Local Preference** ordinance.

Quest is a **Sub-Chapter S Corporation**, with currently active status under the Laws of the State of Florida.

2.2 *Location and Contacts*

Quest's main office is located at:

735 Lakeview Drive
Wimauma, Florida 33598
Vivienne Handy
(813) 642-0799
vivienne@questecology.com

Our Broward County office is located at:

6635 W. Commercial Boulevard
Tamarac, Florida 33319
Frank Kahoun
(954) 290-8223
frank@questecology.com

Vivienne Handy, Principal Ecologist, is a certified Professional Wetland Scientist (PWS) and President of Quest. Vivienne has over 30 years of experience in environmental regulation and habitat restoration planning and implementation. Ms. Handy will serve as Principal-in-Charge and QA/QC Manager on this contract. **Frank Kahoun, MS**, Senior Environmental Scientist and our Broward County Office Manager, will serve as **Project Manager**.

2.3 *Sustainable Business Practices*

As a small local business, Quest has the advantage of a streamlined and responsive project team. Our commitment to sustainability in business practices, such as limiting the production of printed reports, recycling paper, plastic, ink cartridges and the like allows us to keep overhead at a minimum. Our offices actively participate in "green" business initiatives, support local environmental and education programs, and implement the "reduce, reuse, recycle" philosophy in our offices.

This commitment extends to our staff that participates in many volunteer activities with local initiatives such as annual Coastal Clean-ups and educational presentations to local schools and environmental groups. Our staff maintains active memberships with organizations including the Florida Native Plant Society, Friends of the Wildlife Refuges, Society of Ecological Restoration, Society of Wetland Scientists, and local chapter and state participation in the Florida Association of Environmental Professionals. Members of our staff also regularly contribute their expertise to public and private environmental entities, including participating in Land Management Audit programs for state-owned conservation lands, and providing field assistance to non-profit wildlife conservation organizations, including: The Global Owl Project, the Audubon Society, and the Avian Research and Conservation Initiative (ARCI). Project Manager, Frank Kahoun is a Certified Instructor in the Florida Master Naturalist Program and holds an FWC Permit for removal of exotic species, including boa constrictors.

Sustainable business practices also encompass the use of continuing education and safety programs. Our staff is subject to monthly safety meetings, and annual safety refresher courses for working in the wide variety of conditions our jobs require. Our encouragement for continuing education includes the participation in training, technical workshops and conferences to enhance each staff member's knowledge and stay current with developing trends and science. This approach establishes the TEAM mentality among all staff members and allows them to further their careers and skill sets, while remaining active in the local programs they care about.

Becoming and remaining a sustainable business also requires the ability to work in partnership with our clients. This mandates a philosophy of establishing and maintaining clear and open communications with all parties that may be involved in our projects. This may include the City of Fort Lauderdale project manager, regulatory agencies, the project team, involved members of the public, and project contractors. This not only ensures transparency and effective understanding of your needs, but also allows us to work seamlessly and efficiently.

Another key to a sustainable business and performing successfully is to maintain project schedules and flexibility. Establishing and adhering to realistic schedules ensures permit compliance, reduces the need for additional or unscheduled meetings and site visits, and reduces the need for remedial activities. To maximize efficiency on all assignments, Quest will always maintain sufficiently qualified staff available in all technical areas to perform the tasks required within desired timeframes. This commitment to project schedules requires a flexible team that is dedicated to administering and maintaining project schedules, and is available on short notice to address issues as they arise. This flexibility is also important in reacting to changes in needs of City staff and requirements of the project throughout the performance of the contract. Quest's commitment to quality, experience, and diversity will allow us to keep all projects on track, and remain flexible to the needs of the City.

And finally, sustainability requires **quality**. We firmly believe in our ability to provide the highest quality performance on project planning, field services, and deliverables. This quality is assured via quality control guidelines developed through our extensive experience with this and similar types of projects.

By selecting Quest, a firm committed to Sustainable Business Practices, and with the knowledge and experience required for this project, the City of Fort Lauderdale will receive the best return on its investment.

2.4 **Additional Project Experience**

Quest Ecology and our staff members have been providing similar mitigation, construction oversight, monitoring and compliance services throughout the State for over 20 years. This work has been conducted for municipalities, airport authorities, regional utilities, state and local conservation areas, the FDOT and private entities. Examples of similar work conducted for local governments and airport authorities include:

- **Tampa Executive Airport Wetland Monitoring** – Compliance monitoring and maintenance contractor oversight to ensure vegetation structure and composition was maintained for safety and wildlife habitat considerations.
- **Fort Lauderdale International Airport Burrowing Owl Translocation** – Capture, banding and translocation of burrowing owls from airport infields to publicly owned recipient site.
- **Leesburg Airport Authority** – Wetland and upland habitat assessments, protected species surveys, permitting and mitigation planning for runway expansion project.
- **City of Cape Coral HCP and HMP** – Development of City-wide Habitat Conservation Plan for potentially affected protected species and preparation of Habitat Management Plan for burrowing owls and Florida scrub-jays on occupied city-owned and private parcels.
- **Southwest Florida International Airport Burrowing Owl Translocation Study** – Developed alternatives and evaluated feasibility of translocating resident burrowing owls affected by new runway construction.
- **Broward County Park's Lands Restoration/Mitigation Projects** – Oversight of Pond Apple Slough Mangrove Restoration Project, West Lake Park Mangrove Restoration Project, and the Sheridan Street Natural Area Restoration Project.

Additional project experience specific to each of the items in your scope is provided below, along with relevant details that further establish our capabilities to provide excellent service in each scope area.

2.4.1 **Establish Conservation Easement**

The Quest team has worked on the establishment of and the compliance with Conservation Easements for upland and wetland mitigation areas under private and public ownership. Examples include The Scrub Conservation Bank, the first scrub habitat bank permitted in state; the Tippen Bay Conservation Bank; the North Tampa Mitigation Bank; and the Florida Gulf Coast Mitigation Bank. In each case, Quest was tasked with identifying project limits, addressing access issues and allowable uses, preparing monitoring requirements, and providing the required background and project documentation for execution. This required coordination with landowners, permitting agencies, trust account managers, and CE holders.

Quest negotiated and permitted through USFWS **mitigation for mining impacts to the Florida scrub-jay via expansion of an existing Conservation Easement** on private land, known as the Mosaic Wellfield. As part of the **mitigation specifications**, Quest prepared and implemented monitoring and habitat management plans and is currently conducting maintenance and management for the site, including herbicide applications, tree removal and prescribed burning.

2.4.2 Develop Mitigation Specifications

Quest has a long history of using our vast mitigation experience in the development of Mitigation Specifications. This has included **preparation and review of bid documents, identification of qualified bidders, attending pre-bid meetings, notification of awards, overseeing contractor activities, conducting warranty inspections, and determining warranty obligations**. One excellent example is the Contractor Management conducted for the **CW Bill Young Regional Reservoir site** in SE Hillsborough County. Quest conducted bid management and contractor oversight for the entire ~ 1200 acre reservoir site, including upland and wetland mitigation areas, and 20 stormwater ponds. Quest managed contractor bids for much of this work, including supplemental planting and maintenance contracts for upland and wetland mitigation, storm-water pond littoral shelves, shade tree zones, and erosion and sedimentation control areas. As part of bid management, Quest began by conducting field surveys to determine the scope of work to be included in all bid packages, such as listing and mapping areas of nuisance vegetation to be controlled, and preparing planting plans, maps depicting planting zones, and plant species, size and spacing specifications. The next steps included identifying qualified contractors, bid package preparation, a pre-bid meeting including a site tour with potential contractors; and evaluation of bids received. Oversight of planting and herbicide treatments took place, as well as post-work inspections to determine the completeness and effectiveness of the contracted work, and apply plant survival guarantees.

2.4.3 Environmental Construction Observation

Quest has conducted construction and contractor oversight on a wide variety of mitigation and restoration projects. These have included planting, spraying, earthwork, exotic species removal, feral hog control, tree removal, canopy reduction, fencing, and erosion and sedimentation control installation. With **six FDEP Certified Erosion Control inspectors on staff**, Quest has performed these services on a very large number of roadway projects for the FDOT throughout the state. Additional examples include the mitigation and conservation banks that Quest has permitted and managed. For these, we have identified qualified contractors, prepared specifications and bid packages, and overseen the planting, clearing, burning and seeding of upland and wetland restoration areas, and conducted follow up documentation to approve work and payments.



Currently, Quest is conducting the oversight and construction monitoring services for the **US 41/Tamiami Trail Design/Build** to ensure that compliance with all permit conditions and subsequent permit modifications are maintained on this high profile, and nationally recognized hydrologic restoration project. Quest ensures that all permit conditions are met by conducting routine inspections to confirm: the effectiveness of erosion control measures; adherence to water quality standards; that all construction activities, including staging of project materials, do not result in unnecessary secondary impacts to protected habitat; noise controls are in place in noise sensitive areas including documented nesting sites and rookeries; and pre-construction surveys of any nesting areas or wading bird rookeries that may be affected by construction. Additionally, our Environmental Compliance Plan (EPP) includes routine progress update meetings and continuous correspondence with FDEP, USACE, National Park Service and the FDOT District 6 Construction section to ensure all parties remain informed on project status.

2.4.4 Mitigation Monitoring

Quest has conducted mitigation monitoring on literally thousands of acres of created, restored, preserved and managed uplands and wetlands throughout Florida. This includes the six mitigation and conservation banks that Quest has permitted and/or managed, which require baseline data collection, **time-zero monitoring**, and ongoing compliance monitoring to ensure each site is trending toward or meeting success criteria.

For the past 20 years Quest has been providing mitigation monitoring for post-mining wetland and upland reclamation and upland native preservation areas for Mosaic Phosphates. Quest conducts quantitative annual and qualitative semi-annual vegetation and hydrologic monitoring for over 30 wetland reclamation areas for Mosaic. These sites serve as mitigation for impacts to wetlands and sensitive upland habitats from phosphate mining activities, and range in size from five acres to over 1000 acres. Quest is responsible for field data collection including vegetation composition and cover, photographic documentation, hydrologic monitoring, wildlife utilization, nuisance/exotic species cover, and overall assessment of habitat function and success. Many sites are associated with riverine and floodplain systems, but also include isolated forested and herbaceous wetlands and upland preservation areas.

2.4.5 Miscellaneous Coordination for Compliance and Closeout



Our 20+ years of similar experience has allowed us to become intimately familiar with the coordination needs of successful mitigation. This starts with the client and may include a variety of outside entities from regulatory agencies, to adjacent property owners, to maintenance contractors. This not only ensures continued compliance with plans and permits, but also facilitates a smooth and timely close out and release from certain permit requirements. Quest is highly familiar with this process and the need to involve various groups. Each assignment, from Project Management Meetings to oversight of planting activities, will be documented with a memorandum or report. We are confident of our abilities to provide effective communication and coordination.

For 15 years Quest held the FDOT District One Environmental Services Contract, covering permit compliance and management of all District One wetland and upland mitigation sites. This 12 County area required absolute familiarity with each of the 40+ mitigation sites we were responsible for, including permit conditions, maintenance schedules, problem areas and success criteria. Our scope included vegetation monitoring and reporting; remedial plan design and implementation; plant grades and standards inspections; maintenance inspections; oversight of planting, herbicide treatments and contractor coordination. Quest was able to implement a contractor maintenance program and schedule that required follow up and oversight of all site treatments to ensure success and approve contractor performance. This maintenance program and timeline developed by Quest resulted in all sites reaching success criteria within two years and a release of mitigation areas and close out of reporting requirements for the client.

2.5 Standard Form 330 (following pages)

ARCHITECT – ENGINEER QUALIFICATIONS

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION *(City and State)*

Mitigation Services for Fort Lauderdale Executive Airport, Parcel 21B

2. PUBLIC NOTICE DATE

April 19, 2017

3. SOLICITATION OR PROJECT NUMBER

476-11948

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Frank Kahoun, MS

5. NAME OF FIRM

Quest Ecology Inc.

6. TELEPHONE NUMBER

813-642-0799

7. FAX NUMBER

813-642-0380

8. E-MAIL ADDRESS

Vivienne@questecology.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	SUBCON- TRACTOR			
a.	X			Quest Ecology, Inc. x CHECK IF BRANCH OFFICE	6635 W. Commercial Blvd. Tamarac, FL 33319	Prime Consultant, Project Manager
b.				x CHECK IF BRANCH OFFICE		
c.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
d.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
e.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
f.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		

D. ORGANIZATIONAL CHART OF PROPOSED TEAM

x *(Attached)*

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Vivienne Handy, PWS	13. ROLE IN THIS CONTRACT Principal Ecologist, Quality Assurance/Quality Control	14. YEARS EXPERIENCE	
		a. TOTAL 30	b. WITH CURRENT FIRM 20

15. FIRM NAME AND LOCATION (City and State) Quest Ecology Inc., Wimauma, Florida

16. EDUCATION (DEGREE AND SPECIALIZATION) B.S. 1984 Biology	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Certified Professional Wetland Scientist (PWS, #370), Society of Wetland Scientists U.S. Army Corps of Engineers Wetland Delineation Methodology Course Unified Wetland Assessment Methodology (UMAM) Training

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State) FDOT Wetland Mitigation Program, SWFWMD	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Develop and implement baseline methods and permit compliance monitoring plans for large scale wetland mitigation sites located on public lands throughout the District. Oversight of field data collection and reporting and preparation of remedial plans to meet permit conditions.	PROFESSIONAL SERVICES ongoing	<input checked="" type="checkbox"/> Check if project performed with current firm
b.	(1) TITLE AND LOCATION (City and State) Florida Gulf Coast Wetland Mitigation Bank, Levy County, FL	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Preparation of long-term management plan, vegetation monitoring methods and finalize USACE Mitigation Banking Instrument (MBI) for 1600 acre wetland bank in Levy County. Oversight of permit condition audit, contractor bid management and coordination of Conservation Easement conditions and execution.	PROFESSIONAL SERVICES 2015	<input checked="" type="checkbox"/> Check if project performed with current firm
c.	(1) TITLE AND LOCATION (City and State) North Tampa Mitigation Bank, MBR Ventures LLC, Hillsborough County.	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE State and Federal permitting for 160 acre wetland bank in the Hillsborough River Watershed. Included baseline field studies, restoration design, preparation of monitoring & management plans, UMAMs & credit assessment. Review of existing and proposed Conservation Easements and implement CE conditions. Oversight of permit compliance, monitoring and reporting, maintenance activities and management activities.	PROFESSIONAL SERVICES ongoing	<input checked="" type="checkbox"/> Check if project performed with current firm
d.	(1) TITLE AND LOCATION (City and State) The Scrub Conservation Bank, MBR Ventures LLC, Highlands County.	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Preparation of Bank Prospectus, restoration and management plans and permit coordination with USFWS on development of the first Conservation Bank in the State of Florida to target the Florida scrub-jay and sand skink. Oversight of vegetation monitoring and reporting; maintenance and management activities per permit and Conservation Easement conditions.	PROFESSIONAL SERVICES Ongoing	<input checked="" type="checkbox"/> Check if project performed with current firm
e.	(1) TITLE AND LOCATION (City and State) Tippen Bay Conservation & Wetland Mitigation Banks, Desoto County, FL	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Preparation of Conservation Bank Prospectus and coordination with USFWS to permit 1100 acre Florida scrub-jay bank. Obtained WMD permit for adjacent 1400 wetland bank. Oversight of all baseline field data collection and mapping; preparation of restoration and wetland creation designs, management plans & hydrologic/vegetation monitoring methods. Coordinated Conservation Easement conditions and language; identification of CE holder, and oversight of CE inspections and reporting.	PROFESSIONAL SERVICES 2015	<input checked="" type="checkbox"/> Check if project performed with current firm
f.	(1) TITLE AND LOCATION (City and State) Duette Preserve Wetland Restoration Study, Manatee County Division of Natural Resources, Duette, FL	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Design and implementation of monitoring program to assess restoration success on hydrologically restored wetland systems throughout 22,000 Preserve. Oversight of annual quantitative and qualitative data collection and reporting, and remote sensing analyses of soil moisture levels.	PROFESSIONAL SERVICES Ongoing	<input checked="" type="checkbox"/> Check if project performed with current firm
g.	(1) TITLE AND LOCATION (City and State) Tampa Executive Airport Wetland Mitigation Sites, Tampa, FL	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Vegetation monitoring and maintenance inspections and oversight to ensure compliance with permit conditions and safety protocols.	PROFESSIONAL SERVICES 2009	<input checked="" type="checkbox"/> Check if project performed with current firm

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE	
Frank A. Kahoun		Project Manager, Senior Environmental Scientist		a. TOTAL 18	b. WITH CURRENT FIRM 5
15. FIRM NAME AND LOCATION (City and State) Quest Ecology Inc. Wimauma, FL.					
16. EDUCATION (DEGREE AND SPECIALIZATION) PhD Candidate – Antioch University MS-Marine Biology and Coastal Zone Management, Nova Southeastern Oceanographic Center, 2003 BS-English and Environmental Science, Stetson University, 1999			17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) FDEP Certified Erosion and Sedimentation Control Inspector #25131 FDOT Project Development & Environment (PD&E) Training Certified Landscape Inspector ISA Certified Arborist FEMA I.S. 613 Technical Writing Certification PADI Certified Diver					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) US 41, Tamiami Trail		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES ongoing	CONSTRUCTION (If applicable)	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Lead environmental scientist and senior inspector providing CEI oversight and construction monitoring services to ensure that compliance with all permit conditions and subsequent permit modifications are maintained on this high profile, and nationally recognized hydrologic restoration project taking place within the largest designated Wilderness Area east of the Mississippi River.		<input type="checkbox"/> Check if project performed with current firm			
b.	(1) TITLE AND LOCATION (City and State) Bridge Replacement over North Fork River in Ft. Lauderdale		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable)	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided environmental support to obtain clearances for all changes to the project after the PD&E was completed. These changes included but were not limited to identification of pond and/or mitigation sites, land use or environmental changes, and significant design changes. FDOT District IV. Broward County.		<input type="checkbox"/> Check if project performed with current firm			
c.	(1) TITLE AND LOCATION (City and State) I-595 Express OCEI Environmental Compliance, Broward County, FL		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable)	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Lead environmental scientist and senior inspector of the Environmental Compliance Plan in order to validate that it addresses critical environmental issues, permit compliance and appropriate actions to deal with non-compliance issues, including but not limited to erosion, sedimentation, contamination, endangered species, protected habitats and water quality issues.		<input checked="" type="checkbox"/> Check if project performed with current firm			
d.	(1) TITLE AND LOCATION (City and State) Central Broward Transit Study		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Prepared the Draft Environmental Impact Study for the Locally Preferred Alternative (LPA) chosen during the preliminary study. Conducted the field studies and environmental documentation for the Project Development and Environment (PD&E) Study including the Contamination Screening Evaluation Report, Wetlands Evaluation Report and Endangered Species Biological Assessment. FDOT District IV.		<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 David Bogardus	13. ROLE IN THIS CONTRACT Senior Ecologist	14. YEARS EXPERIENCE	
		a. TOTAL 20	b. WITH CURRENT FIRM 1

15. FIRM NAME AND LOCATION (City and State)
Quest Ecology Inc., Tamarac, FL

16. EDUCATION (DEGREE AND SPECIALIZATION) MS, Environmental Horticulture, 2009 University of Florida/IFAS Graduate Course Work, Estuarine Ecosystems, 1997 US Department of Agriculture, Washington, DC BA, Environmental Studies, Wildlife Biology, 1993 Warren Wilson College, Asheville, NC	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
FWC, Authorized Gopher Tortoise Agent, 2009-Present
UMAM Training, South Florida Water Management District, 2010

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	Senior Environmental Scientist for the Glades Rd. Project from SR-7 to US 1, Palm Beach County, District 4, FM # 233166.2		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Senior Environmental Scientist for evaluating project impacts to trees off of the state system. Responsible for tree inventory, documenting tree and palm cover impacts, and conducting coordination with Palm Beach County Streetscape Program, Environmental Resource Management Office and Zoning Department. (2016)		
b.	Senior Environmental Scientist for the Crosstown Parkway Extension Project, City of Port St. Lucie, St. Lucie County		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Senior Environmental Scientist for permitting compliance and environmental commitments for the Crosstown Parkway Extension project including the construction of a new bridge over the St. Lucie River. Work includes addressing issues related to listed species, sediment and erosion controls, water quality, and other permitting conditions for the new transportation corridor.		
c.	Senior Environmental Specialist for District-Wide Wetlands and Environmental Services Contract, District Four		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Manager for District-wide Wetlands and Environmental Services Contract worth \$5 million dollars that provided consult services for a variety of environmental services for the Florida Department of Transportation (FDOT). Services including, but not limited to: environmental compliance and permitting; plans reviews; National Environmental Policy Act (NEPA) compliance; wetland and listed species permitting and mitigation; planning, designing, and constructing wetland and listed species mitigation; and land management of FDOT's historic mitigation sites.		

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

12. NAME W. David Gordon	13. ROLE IN THIS CONTRACT Senior Ecologist	14. YEARS EXPERIENCE	
		a. TOTAL 21	b. WITH CURRENT FIRM 18

15. FIRM NAME AND LOCATION (City and State)
Quest Ecology Inc. Wimauma, FL.

16. EDUCATION (DEGREE AND SPECIALIZATION) Associate of Science, Zoology - Santa Fe Community College, May 1992 Associate of Arts - Tallahassee Community College, June 1987	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Certified Prescribed Burn Manager Florida Pesticide Applicator's License (Aquatics) FDEP-Certified Stormwater Inspector
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Master Bird Bander 23160
Hydric Soils Training, Florida Association of Environmental Soil Scientists

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	Fort Lauderdale International Airport Burrowing Owl Translocation	2016	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Conducted translocation of burrowing owls from runway infields at FLL. Worked with airport biologist and staff from the non-profit Global Owl Project to conduct burrow surveys, trapping, banding and transport of owls to recipient sites identified by the South Florida Wildlife Center. The intent of the project is to prevent owl – aircraft collisions using non-lethal methods, while providing the burrowing owls with the potential to re-establish in alternative habitats.		
b.	Southwest Florida International Airport Burrowing Owl Translocation Study, Fort Myers, FL	2016	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Technical Advisor to Lee County Port Authority consultants and staff to determine feasibility and methods for translocation of burrowing owls from runway infields. Conducted site surveys and research to determine capture and release methods, costs and timing of f potential translocations to offset impacts associated with proposed runway expansion project. Coordinated with private and public landowners to identify potential recipient sites, permit criteria and Conservation Easement requirements.		
c.	Baseline Documentation Report Hooker's Prairie CE, Hillsborough Cty, FL	2015	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Performed baseline monitoring to describe ecological conditions, including land use, vegetation, wildlife, and general hydrology of a 1,600 acre FDEP Conservation Easement . Pedestrian, vehicular, and helicopter surveys were conducted to obtain a minimum 15% aerial coverage of all representative habitats for use in CE document preparation.		
d.	FDOT Districtwide Environmental Support Services, Collier, Lee, Glades, DeSoto, Charlotte, Manatee, Polk & Sarasota Counties, FL	2012	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager responsible for 15 year contract covering permit compliance and management of all District One wetland mitigation sites. Included vegetation monitoring and reporting; remedial plan design and implementation; plant grades and standards inspections; maintenance inspections; oversight of planting, herbicide treatments and contractor coordination.		
e.	Tippen Bay Scrub-jay Conservation Bank, Desoto County, FL	2010	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Ecologist responsible for field surveys to identify, describe and map scrub-jay habitat, prepare restoration and management plans. Contractor coordination and oversight of planting, burning and management activities. Coordination with Conservation Easement holder regarding long term management and CE inspections.		
f.	Mosaic Wellfield Florida Scrub-jay Mitigation Planning & Implementation, Manatee County, FL Lead Ecologist for field surveys, documentation, permitting and mitigation planning for impacts to occupied Florida scrub-jay habitat. Obtained Incidental Take Permit (ITP) through USFWS and implemented mitigation via expansion of existing Conservation Easement . Oversight of ongoing monitoring and habitat management activities pursuant to CE conditions.		
g.	North Tampa Mitigation Bank , Hillsborough County, FL	ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Lead Land Manager conducting vegetation monitoring and oversight of management activities to satisfy permit conditions. Includes planting, maintenance and regular herbicide application to control nuisance/exotic vegetation; feral hog control; maintenance of fencing, signage and access.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Mary M. James, PWS	13. ROLE IN THIS CONTRACT Senior Ecologist	14. YEARS EXPERIENCE	
		a. TOTAL 18	b. WITH CURRENT FIRM 2

15. FIRM NAME AND LOCATION (City and State)
Quest Ecology Inc., Wimauma, Florida

16. EDUCATION (DEGREE AND SPECIALIZATION) MA Ecology (UNC Chapel Hill) BS Natural Resources (University of the South)	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.):
Professional Wetland Scientist #1639
Florida Pesticide Applicator's License (Aquatics)
FDEP-Certified Stormwater Inspector

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED:
a.	MacDill AFB Airfield Surveys and Permitting, Tampa, FL	PROFESSIONAL SERVICES 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE * Check if project performed with current firm Site assessment and environmental permitting for MacDill AFB's Airfield Drainage Improvements project. Involved re-grading activities on ~50-acres of the airfield to eliminate standing water within 1000 feet of the runway to reduce Bird Air Strike Hazards (BASH). Site assessment activities included gopher tortoise and burrowing owl surveys, wetland delineation, and UMAM assessment for proposed wetland impact and mitigation to support modification of USACE, SWFWMD, and EPCHC permits previously issued according to a preliminary design.	
b.	MacDill AFB Site 9 Mangrove Restoration, Tampa, FL	PROFESSIONAL SERVICES 2011-2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE * Check if project performed with current firm Project Manager and Senior Scientist overseeing the monitoring and reporting for a ~3-acre mangrove restoration and saltmarsh enhancement project constructed in the footprint of former mosquito ditch within Air Force Base property. Quantitative monitoring of vegetation and hydrology were conducted semi-annually, and results presented in an annual report to 3 regulatory agencies.	
c.	FDOT Wetland Mitigation Compliance Plans, SWFWMD, Pinellas County, FL	PROFESSIONAL SERVICES ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE * Check if project performed with current firm Project Manager for development of compliance plans to bring existing wetland mitigation sites into compliance with USACE permit conditions. Includes field reviews and preparation of remedial planting and maintenance plans for forested and herbaceous mitigation areas located on public lands.	
d.	FL Gulf Coast Mitigation Bank, Cedar Key, FL	PROFESSIONAL SERVICES 2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE * Check if project performed with current firm Designated Qualified Mitigation Supervisor (QMS) per FDEP permit for 1600-ac mitigation bank encompassing regionally significant tracts of saltmarsh, freshwater forested, and herbaceous marsh wetlands, pine flatwoods and scrub habitats. Oversight and contractor coordination for restoration activities to include removal of fill roads in wetlands, replanting, and invasive exotic removal. Conducted baseline vegetation and hydrologic monitoring and reporting, and coordination of Conservation Easement execution requirements.	
e.	Duette Preserve Floristic Inventory	PROFESSIONAL SERVICES
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Seasonal field surveys in support of preparation of a comprehensive plant species list for a 22,000-acre Manatee County preserve containing high quality examples of oak scrub, scrubby flatwoods, wet prairies and bottomland hardwood communities. Documented habitat associations for all species identified and recorded locations of state/federally listed plant species.	
f.	SR 50 Fiberoptic Installation Permitting	PROFESSIONAL SERVICES 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Conducted wetland delineations and environmental assessments along 26 miles of SR 50 R/W in Orange Co. Project alignment included directional bores beneath the Econlockhatchee River, an Outstanding Florida Water, and the St. Johns River. Prepared, submitted, and obtained an Individual ERP and Sovereign Submerged Lands easement application to FDEP, and a Nationwide Permit to USACE.	

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

12. NAME Jacqueline Lee Cook, MS, PWS	13. ROLE IN THIS CONTRACT Senior Ecologist	14. YEARS EXPERIENCE	
		a. TOTAL 22	b. WITH CURRENT FIRM 11

15. FIRM NAME AND LOCATION (City and State)
Quest Ecology, Inc. Wimauma, FL.

16. EDUCATION (DEGREE AND SPECIALIZATION) M.S., Biology, Tennessee Technological University, 1992. B.S., Biology, Virginia Tech, 1990	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Professional Wetland Scientist (PWS)
Wetlands Biologist in the Regulatory Program of the U.S. Army Corps of Engineers for nearly 10 years. Her main duties consisted of conducting jurisdictional determinations over Waters of the U.S., as well as extensive field reviews for DOA permit applications.

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State) Leesburg Airport Authority, Lake County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2010	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Conducted wetland jurisdictional determinations, listed species surveys, wetland impact assessments and UMAM analysis for new runway extension. Assisted with preparation of permit application documents and mitigation planning.		<input type="checkbox"/> Check if project performed with current firm	

b.	(1) TITLE AND LOCATION (City and State) Lakeland Center Park Drive, City of Lakeland	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Conducted wetland jurisdictional determinations, listed species surveys, wetland impact assessments and UMAM analysis for new roadway extension. Attended pre-application and field meetings with SWFWMD staff to evaluate alternative alignments and identify mitigation options. Evaluated potential impacts to gopher tortoises and utilized the 2008 Wood Stork Key for Central and North Peninsular Florida to identify potential project effects on wood storks. Obtained all state and federal permits.		<input type="checkbox"/> Check if project performed with current firm	

c.	(1) TITLE AND LOCATION (City and State) North Tampa Mitigation Bank, Hillsborough County, FL.	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES ongoing	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Ecologist performed wetland assessments using UMAM. Assisted client with federal and state permitting requirements for a new mitigation bank. Currently, performing monitoring and monitoring and maintenance reports.		<input type="checkbox"/> Check if project performed with current firm	

d.	(1) TITLE AND LOCATION (City and State) Duette Preserve Hydrologic Restoration Monitoring, Manatee County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES ongoing	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Performed quantitative and qualitative monitoring on wetlands on 22,000 acre Preserve to determine the effects of wetland restoration via ditch blocking. Assisted in the research and creation of the final report detailing the monitoring program that employs several methods for evaluating the changes that have, or will, take place within restored wetlands.		<input checked="" type="checkbox"/> Check if project performed with current firm	

e.	(1) TITLE AND LOCATION (City and State) North Tampa Mitigation Bank, Hillsborough County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES ongoing	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Lead Ecologist for State and Federal permitting for 160 acre wetland bank in the Hillsborough River Watershed. Included baseline field studies, restoration design, preparation of monitoring & management plans, UMAMs & credit assessment. Review of existing and proposed Conservation Easements and implement CE conditions. Currently conducting agency coordination for permit compliance, credit releases, monitoring and reporting.		<input type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Rebecca Barkdoll	13. ROLE IN THIS CONTRACT Ecologist	14. YEARS EXPERIENCE	
		a. TOTAL 9	b. WITH CURRENT FIRM 4
15. FIRM NAME AND LOCATION (City and State) Quest Ecology Inc.			
16. EDUCATION (DEGREE AND SPECIALIZATION) BS - Marine Science, Eckerd College 2008		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) FDEP Certified Stormwater Inspector (2001-2014) Authorized Gopher Tortoise Agent			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State) Wetland Restoration Monitoring, MOSAIC Fertilizer, LLC, Hillsborough, Polk, Manatee, & Hardee Counties.	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for annual wetland mitigation monitoring and reporting contracts. Includes quantitative monitoring of wetland reclamation areas ranging in size from 50 to over 500 acres. Includes: identify species and cover, nuisance/exotic species, tree density and canopy cover, evaluate hydrologic conditions, and identify wildlife species. Establish and map new and revised transect locations. Conduct data analysis and prepare reports for submittal to permitting agencies (USACE, FDEP, and Hillsborough County Environmental Protection Commission). Prepare and implement remedial plans and oversee planting and maintenance activities. <input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (City and State) Stormwater Pond Maintenance Inspection, CW Bill Young Regional Reservoir, Lithia, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Lead Ecologist for quarterly compliance surveys of stormwater ponds and adjacent areas to identify nuisance/exotic species and maintenance needs. Preparation of bid documents, bid management and contractor oversight for planting and maintenance activities.		
c.	(1) TITLE AND LOCATION (City and State) FDOT Wetland Mitigation Program, SWFWMD, Hillsborough, Pinellas and Polk Counties	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Lead Ecologist for the design and implementation of monitoring methods to determine permit compliance. Includes quantitative and qualitative wetland and upland vegetation and hydrologic change analyses, and preparation of reports to be submitted to the USACE. Sites include freshwater and estuarine habitats on public lands. <input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (City and State) Headwaters Preserve Hydrologic Baseline Study, Manatee County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Lead Field Ecologist on Baseline Study to establish health and condition of wetlands adjacent to proposed mine site. Design and implementation of quantitative and qualitative monitoring methods, including application of modified Wetland Assessment Procedure (WAP) to document vegetation response to hydrologic changes. Annual monitoring is conducted and also includes nocturnal anuran vocalization surveys and aerial surveys for wading bird nesting and roosting. <input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (City and State) Duette Preserve Hydrologic Baseline Study, Manatee County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Lead Field Ecologist for implementation of monitoring program to assess restoration success on hydrologically restored wetland systems throughout 22,000 Preserve. Conduct annual quantitative and qualitative data collection and reporting, and soil moisture sampling in support of remote sensing analyses of soil moisture levels. <input checked="" type="checkbox"/> Check if project performed with current firm		

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

20. EXAMPLE PROJECT KEY NUMBER
1

21. TITLE AND LOCATION *(City and State)*
Broward County, Florida

PROFESSIONAL SERVICES
2015

22. YEAR COMPLETED
CONSTRUCTION *(If applicable)*
n/a

23. PROJECT OWNER'S INFORMATION

a. PROJECT NAME
184th Avenue Improvements Mitigation Site Monitoring and Management

c. POINT OF CONTACT NAME
Kevin Hart, P.E. District Director,
South Broward Drainage District

c. POINT OF CONTACT TELEPHONE NUMBER
(954) 680-3337 Ext. 206 kevin@sbdd.org

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost.)*

Quest Ecology's environmental scientists conducted statistically valid field sampling protocols in order to submit permit-required compliance monitoring reports to the jurisdictional agencies for the 184th Avenue Improvement Project Mitigation site. The South Broward Drainage District plays an important role in the stormwater management in southwest Broward County. To ensure proper water management, drainage improvement projects to storm water management areas lakes and canals are often necessary. In the implementation of the 184th Avenue Improvement Project wetlands were unavoidably impacted in order to facilitate local drainage improvements. The area that was temporarily filled during construction was regraded and returned to its original contours following the completion of construction and a mixture of native herbaceous wetland plants were installed in order to supplement the natural recruitment of wetland vegetation.

Each monitoring report documented the percent survival of the original plantings, the presence of naturally recruited native plant species, hydrologic indicators, and the approximate percent cover of exotic and nuisance vegetation within the restored areas. In the spring of 2015 Quest coordinated with the client, maintenance staff and representatives from regulatory agencies to release the site from long term compliance monitoring.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a. (1) FIRM NAME
Quest Ecology Inc.

(2) FIRM LOCATION *(City and State)*
Wimauma, FL

(3) ROLE

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

20. EXAMPLE PROJECT KEY NUMBER
2

21. TITLE AND LOCATION *(City and State)*
Broward County, Florida

22. YEAR COMPLETED
PROFESSIONAL SERVICES: 2015
CONSTRUCTION *(If applicable)*: n/a

23. PROJECT OWNER'S INFORMATION

a. PROJECT NAME
I-595 EXPRESS CORRIDOR IMPROVEMENTS PROJECT

c. POINT OF CONTACT NAME
Paul Lampley, P.E., FDOT D4

c. POINT OF CONTACT TELEPHONE NUMBER
(954) 777-4384, paul.lampley@dot.state.fl.us

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost.)*

The I-595 Express Corridor Project extends from the I-75/Sawgrass Expressway interchange to the I-595/I-95 interchange (10.5 miles) and from Peters Road to Griffins Road on the Florida Turnpike (2.5 miles), totaling 13 miles. The project consisted of reconstruction, addition of auxiliary lanes, resurfacing of the I-595 mainline, and a new reversible express lanes system in the I-595 median.



Quest provided the lead environmental scientist and senior inspector for the Environmental Compliance Plan and was responsible for the review of all state, federal, and local agency permits that were associated with the project. Quest assisted TCG and FDOT with CEI oversight and construction monitoring services to ensure that compliance with all permit conditions was maintained on this first of its kind public-private partnership (P3) project. This included erosion control and sedimentation inspections to ensure environmentally sensitive areas were protected in accordance with the FDEP/NPDES Storm Water Pollution Prevention Plan (SWPPP)

Quest reviewed all permit modifications and created and updated site specific audit checklists that were utilized onsite throughout each phase of the project. The audit checklists were used to document any deficiencies that occurred throughout the project site, and ensured the necessary steps were taken to correct them. Quest also provided contractor oversight during construction activities in environmentally sensitive areas to ensure contractors complied with standard construction provisions designed to protect endangered species such as the eastern indigo snake, West Indian manatee, sea turtles, and smalltooth sawfish.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
	Quest Ecology Inc.	Wimauma, FL	

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

20. EXAMPLE PROJECT KEY NUMBER

3

21. TITLE AND LOCATION (City and State)

Pinellas, Polk & Hillsborough Counties

22. YEAR COMPLETED

PROFESSIONAL SERVICES
ongoing

CONSTRUCTION (If applicable)
n/a

23. PROJECT OWNER'S INFORMATION

a. PROJECT NAME

FDOT Wetland Mitigation Program, SWFWMD, Hillsborough, Pinellas and Polk Counties

c. POINT OF CONTACT NAME

Phillip Rhinesmith

c. POINT OF CONTACT TELEPHONE NUMBER

(352) 796-7211, ext. 4266

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost.)

The SWFWMD is responsible for the implementation, maintenance and monitoring of FDOT wetland mitigation areas on public lands throughout the District. In response to a USACE compliance audit, Quest was one of the firms chosen to assist with designing and implementing comprehensive baseline, pre-construction surveys and post-construction monitoring protocols to demonstrate status and permit compliance. **Site specific qualitative and quantitative methods were prepared for each site based on upland preservation, restoration, long-term management, wetland creation goals, permit conditions and success criteria.** The monitoring plan includes implementation of a modified Wetland Assessment Procedure (WAP) to track the results of hydrologic restoration work, as well as installation of monitoring transects, sampling stations and photo documentation points. Reports are prepared to present results in specified USACE formats, and include management recommendations such and planting, maintenance for each site. Remedial planting plans and oversight of planting and maintenance activities are also conducted for select sites. All areas are located on public lands, and encompass upland, wetland, and estuarine habitats, and include addressing recreation components to enhance public education and access.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
	Quest Ecology Inc.	Wimauma, FL	

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

20. EXAMPLE PROJECT KEY NUMBER
4

21. TITLE AND LOCATION <i>(City and State)</i> Palm Beach County, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If applicable)</i> n/a

23. PROJECT OWNER'S INFORMATION

a. PROJECT NAME Glades Road Tree Inventory and Permitting, FDOT District 4	c. POINT OF CONTACT NAME Anson Sonnett, PE, Project Manager	c. POINT OF CONTACT TELEPHONE NUMBER (954) 777-4474 Anson.Sonnett@dot.state.fl.us
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost.)*
 Quest's ISA Certified Arborist (CA) and LIAF Certified Landscape Inspector (CLI) provided a tree inventory, municipal and county coordination, and permitting services for impacts to trees and landscaping outside of the State –owned system associated with operational and capacity improvements along State Road 808 (SR 808) / Glades Road between SR 7 (US 441) and SR 5 (US 1 / Federal Highway) in Palm Beach County. Quest also performed inspections focusing on tree health, mitigation and appraisals to quantify appropriate candidates for replacement and appropriate mitigation planting plans.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a. Quest Ecology Inc.	Wimauma, FL	Ecological Consulting

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

20. EXAMPLE PROJECT KEY NUMBER

5

21. TITLE AND LOCATION *(City and State)*
Hillsborough County, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES
 ongoing

CONSTRUCTION *(If applicable)*

23. PROJECT OWNER'S INFORMATION

a. PROJECT NAME

As Needed Environmental Services, Tampa Bay Water

c. POINT OF CONTACT NAME

Chris Shea

c. POINT OF CONTACT TELEPHONE NUMBER

(727) 796-2355

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost.)*

Tampa Bay Water is a quasi-public utility providing finished drinking water to the Tampa Bay region. Under this as-needed services contract, Quest designed and implemented the monitoring methods and permit compliance protocols for the 300 acre West Pruitt Mitigation Area, one of three mitigation sites associated with the CW "Bill" Young Regional Reservoir project. Quest's scope included finalizing monitoring methodologies, locating and establishing transect locations, and collecting qualitative and quantitative data for the created and enhanced forested and herbaceous wetlands and uplands. **The goal was to coordinate with contractors and agencies to maintain permit conditions and achieve success criteria for the West Pruitt site, which was successfully accomplished within three years of implementation.**

Quest also conducted land management activities for the entire reservoir site, upland and wetland mitigation areas, and 20 stormwater ponds. Quest ecologists worked closely with Tampa Bay Water's Project Manager in developing pragmatic and cost effective ecological solutions for the management and maintenance of the Reservoir site. **Quest managed contractor bids for much of this work, including supplemental planting and maintenance contracts for upland and wetland mitigation**, storm-water pond littoral shelves, shade tree zones, and erosion and sedimentation control areas. As part of bid management, Quest began by conducting field surveys to determine the scope of work to be included in all bid packages, such as listing and mapping areas of nuisance vegetation to be controlled, and preparing

planting plans, maps depicting planting zones, and plant species, size and spacing specifications. The next steps included identifying qualified contractors, bid package preparation, a pre-bid meeting including a site tour with potential contractors; and evaluation of bids received. Oversight of planting and herbicide treatments took place, as well as post-work inspections to determine the completeness and effectiveness of the contracted work, and apply plant survival guarantees.

Additional land management and contractor oversight tasks Quest assisted with included feral hog management, erosion control (silt fence) installation, mowing, and fence and gate maintenance. Quest also prepared prescriptions and successfully completed 35-acre and 55-acre prescribed burns on the property.



Quest continues to provide quarterly compliance inspections and prepares remedial planting and maintenance plans for the 20 stormwater ponds located throughout the site.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
	Quest Ecology Inc.	Wimauma, FL	

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

20. EXAMPLE PROJECT KEY NUMBER
6

21. TITLE AND LOCATION <i>(City and State)</i> Miami/Dade County, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES ongoing	CONSTRUCTION <i>(If applicable)</i> ongoing

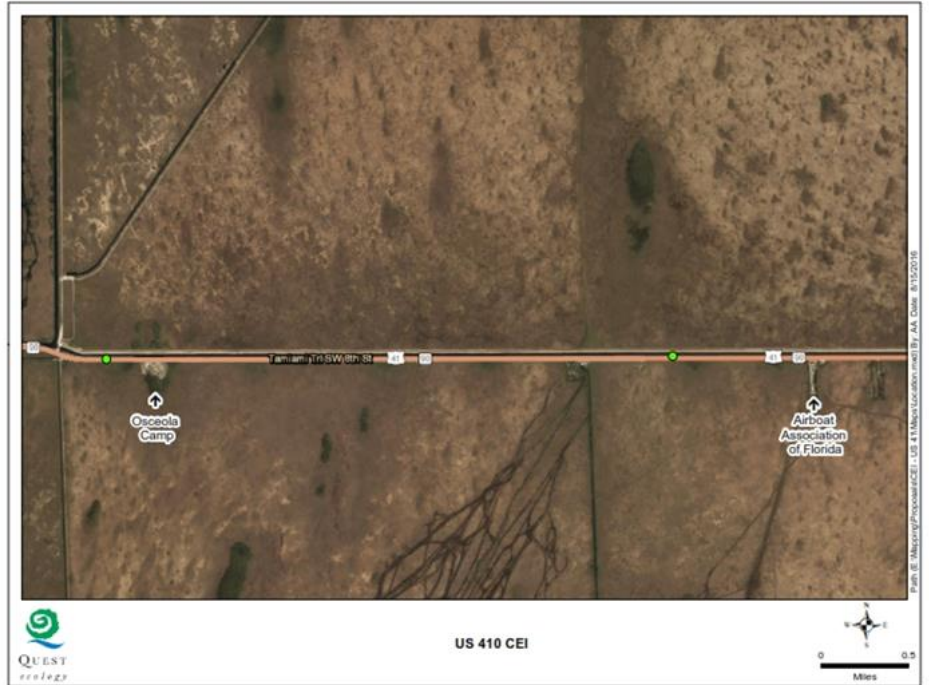
23. PROJECT OWNER'S INFORMATION

a. PROJECT NAME US 41/Tamiami Trail Design/Build	c. POINT OF CONTACT NAME Jacqueline D. Sequeira, P.E. Construction Manager	c. POINT OF CONTACT TELEPHONE NUMBER 305.640.7432
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost.)*

Quest Ecology (Quest) is serving as the **Environmental Compliance Specialist** for the SR 90 (Tamiami Trail) 2.6 mile Bridging Project. This includes the creation of the project's **Environmental Compliance Plan and adaptive monitoring** which consists of auditing and tracking all state, federal, and local agency permit conditions.

Quest is working with F&J Engineering and FDOT District 6 with CEI oversight and **construction monitoring services** to ensure that compliance with all permit conditions and subsequent permit modifications are maintained on this high profile, and **nationally recognized hydrologic restoration project** that takes place within the largest designated Wilderness Area east of the Mississippi River. Quest ensures that all permit conditions are met by conducting routine inspections to confirm: the effectiveness of erosion control measures; adherence to water quality standards; that all construction activities, including staging of project materials, do not result in unnecessary secondary impacts to protected habitat; noise controls are in place in noise sensitive areas including documented nesting sites and rookeries; and pre-construction surveys of any nesting areas or wading bird rookeries that may be affected by construction throughout the entire construction time frame. Additionally, our environmental compliance plan includes routine progress update meetings and continuous correspondence with FDEP, USACE, National Park Service and the FDOT District 6 Construction section to ensure compliance with all permit conditions.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Quest Ecology Inc.	(2) FIRM LOCATION <i>(City and State)</i> Wimauma, FL	(3) ROLE
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

20. EXAMPLE PROJECT KEY NUMBER
7

21. TITLE AND LOCATION <i>(City and State)</i> Hillsborough, Hardee, Polk and Manatee Counties, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES ongoing	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

a. PROJECT NAME Mosaic Fertilizer Reclamation/Mitigation Monitoring	c. POINT OF CONTACT NAME Chuck Pons	c. POINT OF CONTACT TELEPHONE NUMBER (813) 500-6904
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost.)*

For the past 20 years Quest has been providing permit compliance monitoring for post-mining wetland and upland reclamation and upland native preservation areas for Mosaic Phosphates. Quest conducts quantitative annual and qualitative semi-annual vegetation and hydrologic monitoring for over 30 wetland reclamation areas for Mosaic. These sites serve as mitigation for impacts to wetlands from phosphate mining activities, and range in size from five acres to over 500 acres. Quest is responsible for field data collection including vegetation composition and cover, photographic documentation, hydrologic monitoring, wildlife utilization, nuisance/exotic species cover, and overall assessment of wetland function and success. Many sites are associated with riverine and floodplain systems, but also include isolated forested and herbaceous wetlands and upland preservation areas in Hillsborough, Hardee, Polk and Manatee Counties. Monitoring reports are prepared and submitted to the US Army Corps of Engineers (USACE), the Hillsborough County Environmental Protection Commission (HCEPC), and the Florida Department of Environmental Protection (FDEP). In addition to monitoring and reporting, **Quest's job is to provide recommendations, maintenance oversight and remedial planting plans that may be required for each site to achieve success criteria.**

Ongoing tasks conducted on upland preserve areas include protected species surveys, oversight of maintenance contractors, herbicide application, canopy reduction, and prescribed burning. These activities are carried out under the conditions of the **USFWS approved habitat management plan and the Conservation Easement** implemented for these areas.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Quest Ecology Inc.	(2) FIRM LOCATION <i>(City and State)</i> Wimauma, FL	(3) ROLE Environmental Consultant
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

20. EXAMPLE PROJECT KEY NUMBER
8

21. TITLE AND LOCATION <i>(City and State)</i> Palm Beach County, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION <i>(If applicable)</i> n/a

23. PROJECT OWNER'S INFORMATION

a. PROJECT NAME SFRTA Northern Layover /Maintenance Facility	c. POINT OF CONTACT NAME Scott Edgar, P.E. (FL, VA) Jacobs, Senior Project Manager	c. POINT OF CONTACT TELEPHONE NUMBER 954.246.1234
------------------------------------------------------------------------	------------------------------------------------------------------------------------------	------------------------------------------------------

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost.)*

Quest Ecology is a member of the team selected by the SFRTA to perform General Planning Services for the Authority. SFRTA Work Order #1 on this contract involved planning the needs to expand the size and capabilities of the West Palm Layover Facility in Palm Beach County to accommodate current and projected growth of Tri-Rail service in southeast Florida. The existing layover facility adjacent to the West Palm Beach Station did not have sufficient area to support layover storage, service and inspection requirements and limited maintenance functions.

Quest conducted an updated determination of involvement for the revised facility project limits and current conditions to include an analysis of potential impacts to wetlands and surface water features, wildlife habitat, Essential Fish Habitat, threatened and endangered species and a Phase One Environmental Site Assessment. This review included desk reviews, database searches, agency coordination, property owner interviews, ground-truthing and onsite evaluations. **Appropriate mitigation measures, construction protocols and applicable permit requirements were identified and used to assisting in choosing a suitable build alternative.**



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Quest Ecology Inc.	(2) FIRM LOCATION <i>(City and State)</i> Wimauma, FL	(3) ROLE
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

20. EXAMPLE PROJECT KEY NUMBER

9

21. TITLE AND LOCATION (City and State)
Desoto County, FL

PROFESSIONAL SERVICES
2012

22. YEAR COMPLETED
CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION

a. PROJECT NAME
Tippen Bay Scrub-Jay Conservation Bank

c. POINT OF CONTACT NAME
Bryan Paul

c. POINT OF CONTACT TELEPHONE NUMBER
(863) 673-1011

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost.)



Quest prepared and submitted the Prospectus to detail all **mitigation specifications**, followed by all required Bank Permit documents for this multi-species conservation bank. Quest conducted field surveys, **determined allowable uses and calculated bank credits for each species and habitat type**. Surveys were conducted throughout the 5000+ acre parcel to determine existing habitat types, management and restoration needs, and overall listed and non-listed species utilization. Gopher tortoise burrow surveys were conducted, and portions of the site were evaluated for feasibility as a gopher tortoise recipient site. On site meetings were held with Florida Fish and Wildlife Conservation Commission (FWC) and USFWS staff to discuss suitability and restoration planning. **Target species evaluated for current and future mitigation credit opportunities included Florida scrub-jay, crested caracara, wood stork, burrowing owl, eastern indigo snake, gopher tortoise, and Florida panther.**

Maps were prepared to depict land use, soil types, restoration areas, scrub-jay family group locations, protected species observations and historic documentation, regional conservation lands, and bank phasing. Long-term monitoring and management plans and costs to implement were developed and financial assurances negotiated with the USFWS. Quest also negotiated and received approval on the identification of an approved private entity to hold the **Conservation Easement** for the bank. Preparation of approved CE documents included allowable land uses and addressing outstanding issues such as mineral reserve rights.

Quest provided recommendations, plant lists, and **contractor oversight for implementation of restoration activities**, including prescribed burning, planting, herbicide spraying and scrub-jay acclimation for banding. Quest oversees compliance monitoring for the USFWS and coordinates and oversees CE monitoring and reporting activities.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a. (1) FIRM NAME
Quest Ecology Inc.

(2) FIRM LOCATION (City and State)
Wimauma, FL

(3) ROLE

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

20. EXAMPLE PROJECT KEY NUMBER
10

21. TITLE AND LOCATION (City and State)
Highlands County, FL

22. YEAR COMPLETED
PROFESSIONAL SERVICES
Ongoing
CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION

a. PROJECT NAME
Scrub Conservation Bank

c. POINT OF CONTACT NAME
Allison Katz, Timbervest

c. POINT OF CONTACT TELEPHONE NUMBER
(404) 848-7557

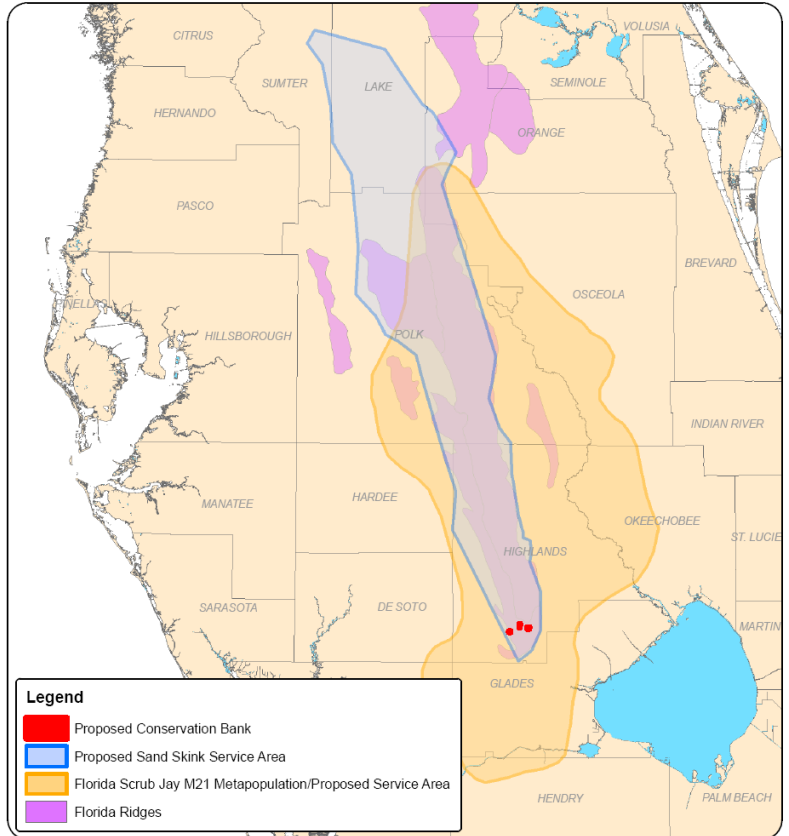
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost.)

Quest prepared the Conservation Bank Proposal and all accompanying permitting documents for submittal to the US Fish and Wildlife Service (USFWS) Vero Beach Office. Located adjacent to Archbold Biological Station (ABS) and the Lake Wales Ridge Wildlife and Environmental Areas (LWRWEA) in Highlands County, the 151-acre Scrub Conservation Bank was the **first scrub conservation bank to be permitted in the State of Florida.**

Quest prepared management plans, monitoring protocols and success criteria for each restoration area. Quest assisted with the cost and credit analysis to determine economic feasibility for the Bank and determined allowable uses for inclusion in the **Conservation Easement** document.

Quest has been conducting annual monitoring for the bank to ensure compliance with USFWS permit and CE conditions. Initial monitoring called for detailed quantitative data collection, however, **success criteria was reached within three years**, and negotiations with USFWS resulted in reduced monitoring efforts to minimal qualitative assessments and reporting.

Quest **oversees maintenance and management** activities and is assisting the owner in preparing for **close out protocols** to be implemented once all credits have been sold.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
	Quest Ecology Inc.	Wimauma, FL	

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 project participation same or similar role.)									
		1	2	3	4	5	6	7	8	9	10
Vivienne Handy	QA/QC Manager	X	X	X	X	X	X	X	X	X	X
Frank Kahoun	Project Manager	X	X		X		X		X		
David Bogardus	Sr. Ecologist	X			X						
David Gordon	Sr. Wildlife Ecologist			X		X		X		X	X
Mary James	Sr. Ecologist			X				X		X	X
Lee Cook	Sr. Ecologist			X		X		X		X	X
Rebecca Barkdoll	Ecologist		X	X				X		X	X

29. EXAMPLE PROJECT KEY

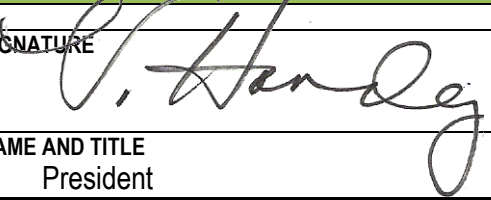
No.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	No.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	South Broward Drainage	6	Tamiami Trail
2	I-595 CEI	7	Mosaic Monitoring
3	SWFWMD FDOT Program	8	SFRTA North Layover Facility
4	Glades Road	9	Tippen Conservation Bank
5	Tampa Bay Water Reservoir	10	Scrub Conservation Bank

H. ADDITIONAL INFORMATION

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

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE 	32. DATE May 17, 2017
33. NAME AND TITLE President	

ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

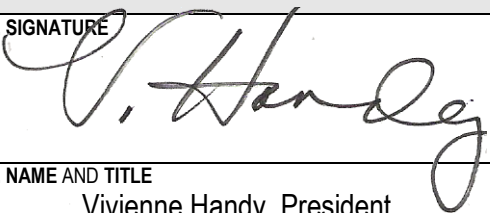
PART II – GENERAL QUALIFICATIONS

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

2a. FIRM (OR BRANCH OFFICE) NAME Quest Ecology Inc.			3. YEAR ESTABLISHED 1996	4. DUNS NUMBER 02-364-5570
2b. STREET 735 Lakeview Drive			5. OWNERSHIP a. TYPE Corporation	
2c. CITY Wimauma	2d. STATE Florida	2e. ZIP CODE 33598	b. SMALL BUSINESS STATUS Small Business	
6a. POINT OF CONTACT NAME AND TITLE Vivienne Handy, President			7. NAME OF FIRM (If block 2a is a branch office) n/a	
6b. TELEPHONE NUMBER 813-642-0799	6c. E-MAIL ADDRESS Vivienne@questecology.com			
8a. FORMER FIRM NAME(S) (If any) n/a			8b. YR ESTABLISHED n/a	8c. DUNS NUMBER n/a

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			
48	Project Manager	3		C14	Conservation and Resource Management	2
19	Ecologist	5		E01	Ecological and Archeological Investigations	2
29	Geographic Information Specialist	1		E09	Environmental Impact Studies, Assessments or Statements	2
02	Administrative	2		E10	Environmental and Natural Resource Mapping	2
				E11	Environmental Planning	2
				G04	Geographic Information System Services, Development, Analysis, and Data Collection	1
	Other Employees					
	Total	11				

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	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	4	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million	8. \$10 million to less than \$25 million	9. \$25 million to less than \$50 million
c. Total Work	5	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million	9. \$25 million to less than \$50 million	10. \$50 million or greater
		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 May 17, 2017
c. NAME AND TITLE Vivienne Handy, President	

3.0 ORGANIZATIONAL PROFILE AND PROJECT TEAM

3.1 Firm Profile

Quest Ecology provides a full range of environmental and ecological consulting services. We have completed numerous small and large scale projects involving ecological assessments, environmental permitting and conservation planning. The Quest Team has provided these services on a wide variety of projects throughout the State of Florida, for local and state agencies as well as private clients. Our expertise includes:

- Baseline ecological assessments, land use and habitat mapping;
- Wetland mitigation design and permitting, mitigation banking, long term mitigation site management, mitigation construction supervision, maintenance, and monitoring;
- Large scale wetland jurisdictional determinations, soils investigations, and aerial photo interpretation;
- Protected species and wildlife surveys and monitoring; population studies, FWC/USFWS permitting and relocations; and Conservation Bank planning and permitting;
- Land management planning and habitat restoration design and implementation, including prescribed burn planning and implementation;
- Environmental permitting and permit compliance;
- NEPA/Environmental documentation including Environmental Assessments and Environmental Impact Statements;
- GIS analysis and database development;
- Public involvement, environmental education and community outreach.

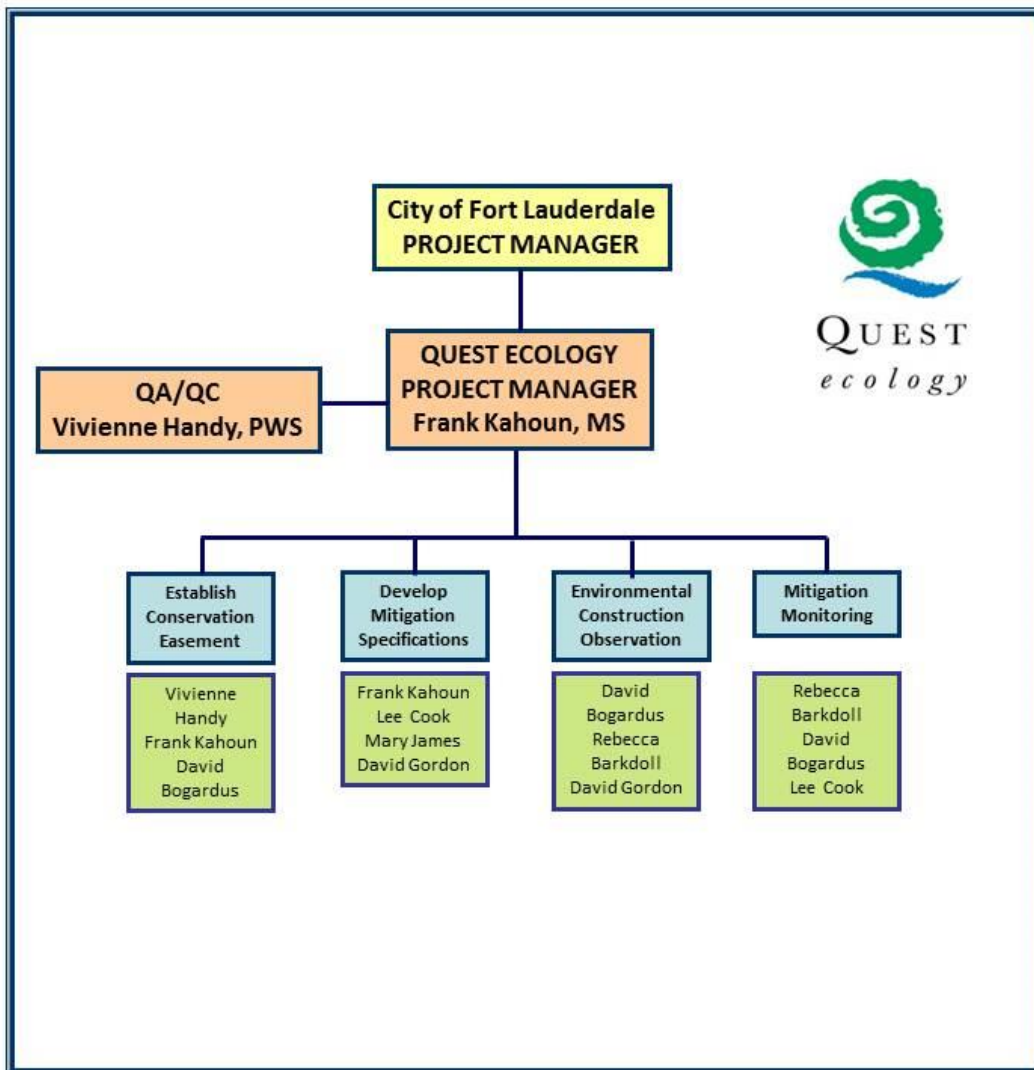
Quest's **ecological evaluations and permitting** expertise is wide-ranging and encompasses wetland and upland habitat evaluations and jurisdictional determinations, mitigation design, construction and monitoring, environmental impact assessments, and environmental permitting and documentation.

Establishment of wetland boundaries and identification of wetland functions and values is an important aspect of project planning and habitat management. Quest's Ecologists and Professional Wetland Scientists possess many years of experience in the analysis, regulation and management of both upland and wetland systems. We are experts in the wetland jurisdictional determination process and in performing wetland evaluations and permitting for projects ranging in size from a few acres to several thousand acres. We have mapped wetland and native upland communities throughout the state, involving a variety of habitat types from tidal marsh systems to seagrass beds, and hydric pine flatwoods to dry prairies. Habitat evaluations include analyses of vegetative components, listed species utilization, habitat value, and conducting wetland functional assessments such as Wetland Rapid Assessment Procedure (WRAP), and employing the Unified Mitigation Assessment Methodology (UMAM). Our experience in wetland and upland habitat restoration and mitigation design includes large scale land reclamation projects, mitigation banks, and mitigation designed for developments involving smaller wetland creation sites. Our wetland restoration and mitigation experience also includes construction management, planting oversight, maintenance, and long term site management.

The Quest staff is intimately familiar with the federal, state and local regulations and permits that apply to today's complex transportation, mining, and commercial and residential development projects. We have experience acquiring the necessary permits and maintaining permit compliance with the U.S. Army

Corps of Engineers; the Florida Department of Environmental Protection; the State of Florida Water Management Districts; the US Coast Guard; the Florida Fish and Wildlife Conservation Commission; the US Fish and Wildlife Service; Regional Planning Councils; and many additional local programs. We have obtained Department of the Army Permits and State Environmental Resource Permits (ERP) throughout the state, have experience obtaining Coast Guard Bridge permits and have participated in the NEPA process for several large scale projects involving alternatives analysis, the preparation of Environmental Assessments (EA) and Environmental Impact Statements (EIS).

3.2 Organizational Chart



3.3 Project Manager Experience and Qualifications

Frank Kahoun, MS, PhD candidate, will serve as Project Manager on this contract. Frank has over 18 years of experience as an environmental professional with an emphasis on permit compliance, construction management, wetland evaluations, environmental consulting and project management.

Frank is responsible for the management of Quest's Broward County office. His expertise includes **environmental resource permitting, habitat assessments, tree surveys and inventories. Landscape inspections, wetland delineations, threatened and endangered species surveys, mitigation construction oversight, mitigation site design, environmental compliance monitoring and reporting, and environmental resource management.** He performs these services on projects throughout the South Florida area within a wide range of marine, wetland and upland habitat types for a variety of public and private clients.

Frank's recent project experience includes the I-595 Express Improvements Project in Broward County. Frank served as the lead environmental scientist and senior inspector for the Environmental Compliance Plan and was responsible for the review of all state, federal, and local agency permits that were associated with the project and construction monitoring services to ensure that compliance with all permit conditions was maintained on this first of its kind public-private partnership (P3) project. Additional responsibilities included tree protection inspections and assessments, landscape inspections, and oversight of construction operations in environmentally sensitive and natural areas.



Additional relevant project experience includes construction oversight services for the I-75 Corridor Improvements Project in west Broward County. This involves oversight of critical environmental issues, permit compliance, and implementing appropriate actions to deal with non-compliance issues including, but not limited to, erosion, sedimentation, contamination, endangered species, protected habitats and water quality. Providing tree inventory and permitting services for impacts to trees and landscaping associated with operational and capacity improvements along Glades Road between SR 7 (US 441) and SR 5 (US 1 / Federal Highway) in Palm Beach County including construction oversight inspections focusing on tree protection, mitigation and appraisals to quantify appropriate candidates for replacement. Frank also conducted statistically valid field sampling in order to submit permit-required compliance monitoring reports to the jurisdictional agencies for the 184th Avenue Improvement Project Mitigation site. Each monitoring report documented the percent survival of the original plantings, the presence of naturally recruited native plant species, hydrologic indicators, and the approximate percent cover of exotic and nuisance vegetation within the restored areas. In the spring of 2015, Frank coordinated with the client, maintenance staff and representatives from regulatory agencies to release the site from long term compliance monitoring.

Frank's certifications relevant to this project include Florida Department of Environmental Protection Certified Erosion and Sedimentation Control Inspector #25131, LIAF Certified Landscape Inspector #2013-128, and ISA Certified Arborist # FL-6624A.

3.4 Team Member Roles

Vivienne Handy, PWS, is the President and Principal Ecologist for Quest Ecology Inc. She founded Quest in 1996, and has over 30 years of experience in ecosystems management, environmental permitting, wetland mitigation, and wildlife studies. Prior to the formation of Quest Ecology, Ms. Handy served in a variety of positions with regulatory agencies and engineering and consulting firms.

A significant portion of Ms. Handy's career experience has consisted of conducting and managing field studies and environmental permitting. This includes the oversight of permitting and environmental documentation for a wide variety of projects and clients. Ms. Handy has recent experience in the development and permitting of several wetland mitigation banks and conservation banks for listed species, and was responsible for the permitting of the first Scrub Conservation Bank for Florida scrub-jay and sand skink in the State of Florida.

Currently, Ms. Handy manages projects throughout the state that involve impact assessments, wetland permitting, threatened and endangered species surveys, habitat restoration and management, and wetland mitigation design and site management. These projects are for clients such as the FDOT, local governments, the mining industry, utilities, and commercial and residential developers.

For this project, Ms. Handy will be responsible for QA/QC of all deliverables and cost control.

David Bogardus, MS, has over 20 years of environmental experience that includes National Environmental Policy Act (NEPA) compliance, wetland and listed species permitting and mitigation, and permit compliance oversight.

Prior to joining Quest, David served eight years with the Florida Department of Transportation in the District Four's Planning and Environmental Management Office serving as Senior Environmental Scientist. In this capacity, he performed a variety of tasks related to transportation planning, Project Development and Environment (PD&E) Studies, environmental permitting, and construction compliance. David reviewed and prepared environmental documents in support of PD&E's for roadway, trail, and bridge projects, and managed a number of consultant, mitigation, and research contracts. **He conducted reviews of construction plans and field inspections to ensure compliance with all federal and state regulations with respect to natural, physical and sociocultural resources.** He oversaw projects to ensure that all federal and state permits, NEPA commitments, and other agency assurances were observed and addressed during design and construction. In addition, David served as the lead for all agency coordination requiring Formal or Informal Section 7 ESA coordination and analysis for the Department. David worked with USFWS and NMFS on Biological Opinions and countless Informal Consultations. David is familiar with the expectations for reporting and coordination in order to resolve consultation issues so that permitting proceeds in a timely manner. In addition, he created Endangered Species Biological Assessments (ESBA), Wetland Evaluation Assessments (WER) and Essential Fish Habitat (EFH) reports; responded to Request for Additional Information (RAI) from permitting agencies; and, met with agencies on complex issues surround avoidance, minimization and mitigation.

David is a Florida Fish and Wildlife Conservation Commission (FWC) Certified Gopher Tortoise Agent (FWC Permit GTA-10-00096C). David Bogardus oversaw the gopher tortoise state coordination activities for the Florida Department of Transportation (FDOT) for seven years and has managed numerous relocation efforts for large and small roadway projects from Broward County to Indian River County. In

addition, David was the first gopher tortoise agent to receive an approved Waif Tortoise Permit for the relocation of tortoises to Oakland Park's Lakeside Sand Pine Preserve off of Oakland Park Boulevard in Broward County.

In addition, David is a Florida Department of Environmental Protection (FDEP) certified Stormwater Management Inspector and has taken the Stormwater Erosion and Sedimentation Control Training necessary for permitting compliance review.

While at FDOT, David oversaw several large restoration and mitigation projects on Broward County Park's lands including Pond Apple Slough Mangrove Restoration Project (9 acres), West Lake Park Mangrove Restoration Project (2 acres), and the Sheridan Street Natural Area Restoration Project (2 acres). David worked closely with Linda Briggs and Carol Morgenstern, as well as the Tree Permitting Department of Broward County.

David also served as environmental liaison to FDOT's Local Agency Program (LAP) certifying City projects including Fort Lauderdale Projects including Sistrunk Blvd.

David Gordon, is a wildlife specialist and at Quest is responsible for wildlife and habitat studies, land management and restoration plans, threatened and endangered species surveys, wetland assessments, and wetland and upland mitigation site management.

David's over 18 years of experience includes: **development of field monitoring and wildlife survey methodologies**; capture, banding and radio telemetry tracking of a variety of bird species including scrub-jays, burrowing owls, and crested caracara; management plans for protected reptiles, birds, mammals and game species; wetland mitigation design, and **oversight of land management activities including construction, prescribed burning and herbicide application**.

David's role on this project is anticipated to be in a technical advisory capacity in the areas of wildlife surveys and habitat restoration and management plans for target species. His experience with conducting and overseeing habitat restoration and conducting long-term management activities will be heavily utilized in the restoration planning process.

Mary James, MA, PWS, contributes more than 18 years of diverse ecological experience to the Quest Team. Her areas of **expertise include project management, environmental permitting, ecological restoration, plant taxonomy, mitigation banking, habitat assessment, vegetation monitoring, wetland delineation, plan reviews, and construction inspection**.

Mary has worked in the private sector for a Fortune 500 company, as an environmental consultant to public and private clients, and as a government employee, giving her the advantage of multiple perspectives. Since joining Quest, her primary duties have included serving as Project Manager for a 1600-acre mitigation bank in Levy County, leading a floristic inventory of Manatee County's Duette Preserve (22,000 acres), and coordinating Environmental Assessments for multiple FP&L projects throughout the state.

Mary has managed a variety of environmental projects providing services that included environmental permitting; project management (scheduling, budgeting, client/subcontractor management); site assessment (wetland delineation, habitat assessment, wildlife/vegetation surveys and monitoring); construction monitoring; marketing, and technical writing.

As a highly accomplished field botanist, Mary's role in this project will be to assist with baseline surveys to establish site conditions and vegetation communities, assist with the development of planting plans, and conduct compliance monitoring and reporting in the post-restoration phase.

Lee Cook, MS, PWS, has over 19 years of experience in **ecosystem analysis, environmental permitting, wetland delineation, and wildlife studies**. Ms. Cook's areas of specialization include hydric soil identification, wetland ecology, and herpetology.

Prior to her employment at Quest Ecology, Ms. Cook worked as a Wetlands Biologist in the Regulatory Program of the U.S. Army Corps of Engineers for nine years. Her main duties consisted of conducting jurisdictional determinations over Waters of the U.S. as well as extensive field reviews for Department of the Army (DOA) permit applications. Ms. Cook performed permitting of large development projects and mining operations, including mitigation design, and enforcement actions. Ms. Cook was also instrumental in developing the field review portion of the Corps of Engineers Wetlands Jurisdictional Certification Program. She frequently provided wetland delineation training to State and Federal employees and members of the private sector.

Lee's expertise in permitting will be utilized to assist with the planning, permitting and agency coordination tasks. Lee's specialization with soils science will also be employed in the development of restoration plans and identification of vegetation communities and species most appropriate for site conditions.

Rebecca Barkdoll, has a degree in marine biology and brings experience in both terrestrial and aquatic environments. Her field experience includes **characterizing vegetation/habitat conditions, surveying and mapping nuisance and exotic plant species**, collecting water quality samples, wildlife surveys and monitoring, soil moisture surveys, conducting permit compliance monitoring and reporting for wetland mitigation areas.

Rebecca uses her GIS skills to assist with the creation of maps and figures for a wide variety of projects and proposals.

Rebecca's vast experience with permit compliance monitoring will be called upon to assist with the development of monitoring plans and protocols and implementing these plans in the post-restoration phase. Rebecca also brings considerable experience with bid development and contractor oversight in the areas of herbicide treatment, erosion control, and planting oversight.

3.5 Resumes (see following pages)



Education

PhD Candidate- Environmental Studies, Antioch University New Hampshire, Current

MS-Marine Biology and Coastal Zone Management, Nova Southeastern Oceanographic Center, 2003

BS-English and Environmental Science, Stetson University, 1999

Professional Training, Licenses and Organizations

Florida Department of Environmental Protection
Certified Erosion and Sedimentation Control Inspector #25131

LIAF Certified Landscape Inspector #2013-128

ISA Certified Arborist # FL-6624A
American Red Cross First Aid with CPR/AED Certification

U.S. Army Corps of Engineers
40 Hour Wetland Delineation Methodology Certification

University of Florida Florida Master Naturalist Program Instructor

Frank A. Kahoun III, Sr. Environmental Scientist



Frank Kahoun has over 18 years of experience as an environmental professional with an emphasis on permit compliance, construction management environmental consulting and project management.

Frank is responsible for the management of Quest's Broward County office. His expertise includes

environmental resource permitting, habitat assessments, wetland delineations, threatened and endangered species surveys, mitigation construction oversight, mitigation site design, tree surveys and landscape inspections, environmental compliance monitoring and reporting, and environmental resource management.

He performs these services on projects throughout the South Florida area within a wide range of marine, wetland and upland habitat types for a variety of public and private clients.

Construction Oversight, Permitting & Compliance, Mitigation Planning and Reporting

- **Miramar Pinelands Mitigation Site** - Provided onsite construction management, including permit compliance inspections, inspections of staging area impacts and remedial actions, routine inspections of erosion control measures, as-built survey reviews, conceptual design modifications, Time Zero reporting and regulatory agency coordination resulting in agency acceptance of a 30 acre freshwater mitigation site on Broward County Parks and Recreation owned land. Retail Property Group, LLC. Broward County.
- **Bridge Replacement over North Fork River in Ft. Lauderdale** - Provided environmental support to obtain clearances for all changes to the project after the PD&E was completed. These changes included but were not limited to identification of pond and/or mitigation sites, land use or environmental changes, and significant design changes. FDOT District IV. Broward County.

- **Blessed John XXIII Mitigation Site** - Provided onsite construction management, permit compliance inspections, inspections of secondary impacts and remedial actions, routine inspections of erosion control measures and turbidity barriers, as-built survey reviews, conceptual design modifications, Time Zero reporting and regulatory agency coordination resulting in agency acceptance of a 12 acre freshwater mitigation site adjacent to existing permitted mitigation sites. Archdiocese of Miami. Broward County.
- **Pembroke Harbor Onsite Mitigation** - Provided onsite construction management, permit compliance inspections, routine inspections of erosion control measures and turbidity barriers, as-built survey reviews, conceptual design modifications, Time Zero reporting and regulatory agency coordination resulting in agency acceptance of a 22 acre freshwater mitigation site. Carr Holding, Inc. Broward County.
- **Phillips Plat Park 'n Go Facility Mitigation Site** - Provided onsite construction management, including permit compliance inspections, inspections of staging area impacts, pay application reviews, as-built survey reviews, conceptual design modifications, onsite supervision of work conducted around protected vegetation, Time Zero reporting and regulatory agency coordination resulting in agency acceptance of a 11 acre tidally influenced mangrove preservation and mitigation site and 1.8 acre storm water management area used for surface water pretreatment adjacent to active construction site and a registered hydrocarbon contamination site. Stiles Construction Group, LLC. Broward County.
- **City of Weston Wetland Mitigation** - Senior environmental scientist and project manager responsible for coordination of staff, sub-contractors, field data collection, compliance inspections, management of listed species and documentation to ensure permit compliance of the City's 2,200 plus acres of permitted wetland mitigation. City of Weston. Broward County.
- **I-595 Express OCEI Environmental Compliance** - Lead environmental scientist and senior inspector of the Environmental Compliance Plan to validate that it addressed critical environmental issues, permit compliance and appropriate actions to deal with non-compliance issues, including but not limited to erosion, sedimentation, contamination, listed species, protected habitats and water quality issues. FDOT District IV. Broward County.
- **Central Broward Transit Corridor Study** - Prepared the Draft Environmental Impact Study for the Locally Preferred Alternative (LPA) chosen during the preliminary study .Conducted the field studies and environmental documentation for the Project Development and Environment (PD&E) Study including the Contamination Screening Evaluation Report, Wetlands Evaluation Report and Endangered Species Biological Assessment. FDOT District IV.
- **City of Weston Tree Survey** - Field manager for a city-wide tree inventory project identifying each tree on city property by species and location (sub-meter accuracy) using hand held GPS and data recording tablets. City of Weston. Broward County.



Education

BS-Biology, University of South Florida, 1984

Professional Certifications and Organizations

Certified Professional Wetland Scientist (PWS, #370), Society of Wetland Scientists

U.S. Army Corps of Engineers Wetland Delineation Methodology Course

Uniform Wetland Assessment Methodology (UMAM) Training
FDOT Project Development and Environment (PD&E) Manual Training

FDOT Water Quality Impact Evaluation Training (WQIE) & Certification

FDOT Efficient Transportation Decision Making (ETDM) Training

Vivienne Handy, PWS, Principal Ecologist



Vivienne Handy is the President and Principal Ecologist for Quest Ecology Inc. She founded Quest in 1996, and has over 30 years of experience in ecosystems management, environmental permitting, wetland mitigation, and wildlife studies. Prior to the formation of Quest Ecology, Ms. Handy served in a variety of positions with regulatory agencies and engineering and consulting firms.

A significant portion of Ms. Handy's career experience has consisted of conducting and managing field studies and environmental permitting. This includes the oversight of permitting and environmental documentation for a wide variety of projects and clients, from roadway and bridge studies to mine reclamation projects. Ms. Handy's recent focus has been on NEPA and Endangered Species Act issues, including working with the US Fish and Wildlife Service on the development of regional, multi-species Habitat Conservation Plans. Ms. Handy has recently overseen the development of six HCP's, involving multiple habitats and species, and county and city-wide efforts, as well as project-specific Incidental Take Permits. Ms. Handy is also heavily involved in the development and permitting of wetland mitigation banks and conservation banks for listed species, and was responsible for the permitting of the first Scrub Conservation Bank for Florida scrub-jay and sand skink in the State of Florida.

Currently, Ms. Handy manages projects throughout the state that involve impact assessments, wetland permitting, threatened and endangered species surveys, habitat restoration and management, and wetland mitigation design and site management. These projects are for clients such as the FDOT, local governments, the mining industry, utilities, and commercial and residential developers.

Wetland Evaluations - Permitting and Compliance, Mitigation and Mit Banking

- J **Tippen Bay Wetland Mitigation Bank** – Design of wetland restoration and creation, UMAM, credit evaluations, and preparation of ERP application and USACE Prospectus for ~1,400 acre proposed wetland mitigation bank. DeSoto County.
- J **Duette & Headwaters Preserve Wetland Restoration Study, Manatee County Division of Natural Resources** - Design and implementation of monitoring program to assess restoration success on hydrologically restored wetland systems.
- J **FDOT Wetland Mitigation Program, SWFWMD** – Develop and implement baseline methods and permit compliance monitoring plans for wetland mitigation sites located on public lands throughout the District.
- J **Florida Gulf Coast Wetland Mitigation Bank** – Permitting assistance, preparation of management plan and finalize USACE Mitigation Banking Instrument (MBI) for 1500 acre wetland bank in Levy County.
- J **North Tampa Mitigation Bank, MBR Ventures LLC** – Field studies, restoration design, and management plans, UMAMs, credit assessment, and State and Federal permitting for 160 acre wetland bank in the Hillsborough River Watershed. Hillsborough County.

Ecological Evaluations - Wildlife Studies

- J **City of Cape Coral Habitat Conservation Plan** – Project Director overseeing all data collection and field surveys; Steering Committee and public involvement presentations; preparation of mitigation and management plans; preparation of draft and final HCP documents; and agency and local government coordination. Lee County.
- J **Charlotte County County-wide HCP for Florida Scrub-jay** – Project Director responsible for oversight of data collection, field surveys, Steering Committee and Interagency Task Force development, public involvement, and development of draft and final HCP. Charlotte County Natural Resources Department.
- J **Highlands County County-wide Multi-Species HCP** – Project Director responsible for the coordination of all data collection, field surveys, mapping, Technical Advisory Group and Stakeholder Group coordination, preparation of presentation materials, meeting facilitation, development of Reserve System alternatives and draft HCP for 46 listed species within scrub habitats. Highlands County BOCC.
- J **Tippen Bay Conservation Bank** – Project Manager for 1,100 acre bank to target caracara and Florida scrub-jay. Prepared Bank Prospectus, Bank Agreement documents, conducted field reviews and participated in extensive USFWS and FWC coordination regarding bank siting, service areas, financial assurances, CE, and application of mitigation criteria. DeSoto County.
- J **FWC Florida Scrub-Jay Experimental Translocation Project** - Responsible for scheduling, staff oversight and report preparation for experimental scrub-jay translocation project with the Florida Fish & Wildlife Conservation Commission. Hillsborough, Manatee and Sarasota Counties.



Education

CPM, Florida Center for Public Management, 2015
Florida State University,

MS, Environmental Horticulture, 2009
University of Florida/IFAS

Graduate Course Work, Estuarine Ecosystems, 1997
US Department of Agriculture, Washington, DC

BA, Environmental Studies, Wildlife Biology, 1993
Warren Wilson College, Asheville, NC

Professional Certifications and Organizations

FWC, Authorized Gopher Tortoise Agent, 2009-Present

UMAM Training, South Florida Water Management District, 2010

President, South Florida Association of Environmental Professionals, 2013-15

Vice-president, South Florida Association of Environmental Professionals, 2011-12

David Bogardus, MS, Senior Ecologist



David brings twenty years of environmental experience that includes National Environmental Policy Act (NEPA) compliance, wetland and listed species permitting and mitigation, and permit compliance oversight. David has a Master's Degree in Environmental Horticulture, with a focus on Natural Communities Restoration, and a BA in Environmental Studies with a concentration in Wildlife Biology.

Prior to joining Quest, David served eight years with the Florida Department of Transportation in the District Four Planning and Environmental Management Office serving as Senior Environmental Scientist. In this capacity, he performed a variety of tasks related to transportation planning, Project Development and Environment (PD&E) Studies, environmental permitting, and construction. David reviewed and prepared environmental documents in support of PD&E's for roadway, trail, and bridge projects, and managed a number of consultant, mitigation, and research contracts. He conducted reviews of construction plans and field inspections to ensure compliance with all federal and state regulations with respect to natural, physical and sociocultural resources. He oversaw projects to ensure that all federal and state permits, NEPA commitments, and other agency assurances were observed and addressed during design and construction. In addition, David served as the lead for all agency coordination requiring Formal or Informal Section 7 ESA coordination and analysis for the Department. David worked with USFWS and NMFS on Biological Opinions and countless Informal Consultations. David is familiar with the expectations for reporting and coordination in order to resolve consultation issues so that permitting proceeds in a timely manner. In addition, he created Endangered Species Biological Assessments (ESBA), Wetland Evaluation Assessments (WER) and Essential Fish Habitat (EFH) reports; responded to Request for Additional Information (RAI) from permitting agencies; and, met with agencies on complex issues surround avoidance, minimization and mitigation. David has also worked for several international science-based conservation organizations including World Wildlife Fund and The Billfish Foundation.

Project Experience

- J **Glades Rd. from SR-7 to US 1, Palm Beach County, District 4, FM # 233166.2** - Senior Environmental Scientist for evaluating project impacts to trees off of the state system. Responsible for tree inventory, documenting tree and palm cover impacts, and conducting coordination with Palm Beach County Streetscape Program, Environmental Resource Management Office and Zoning Department. (2016)
- J **A1A North Bridge, PD&E Study, St. Lucie County, District 4, FM # 429936.2** - Senior Environmental Liaison for a PD&E Study evaluating bridge replacement alternatives. Responsible for evaluating wetlands, essential fish habitat, and endangered species impacts; as well as permitting support, agency coordination, and the development of the PD&E reports. (2015-16)
- J **CR-714 Widening and Reconstruction, Martin County, FDOT District 4, FM 230978.2** – Senior Environmental Scientist for the widening/reconstruction of CR- 714 from just west of the Turnpike Entrance to just west of Mapp Road from 2 to 4 lanes. Responsible for environmental permitting support, agency coordination, wetland mitigation, gopher tortoise relocation and permitting, environmental surveys, and mitigation. (2009 - 2013)
- J **I-95 Interchange at Spanish River Blvd., Palm Beach County, FDOT District 4, FM # 412420.3** - Senior Environmental Scientist for the evaluation of wetlands, wildlife, and essential fish habitat for the design and construction of a new interchange at Spanish River Blvd. and I-95. Responsible for wildlife, wetlands, and essential fish habitat surveys; coordination with permitting agencies; relocation of gopher tortoises; and wetland mitigation. (2012-14)
- J **US 1 Milling and Resurfacing Project are from Palm Beach/Martin County Line to Milepost (MP) 5.05, Martin County; FDOT District 4, FM 427023.1** - Senior Environmental Scientist with FDOT in evaluating environmental impacts of a milling and resurfacing project that included a multi-use path adjacent to Jonathan Dickinson State Park. Responsible for listed species surveys, coordination with permitting agencies and park manager, relocation of gopher tortoise and endangered plants, design modifications, plan notes, and installation of gopher tortoise fence to prevent roadway mortality.
- J **PGA Blvd. from SR 710 to C-18 Canal, Palm Beach County, FDOT District 4, FM # 229396.2** - Senior Environmental Scientist for roadway design to raise the existing road surface and to create a 2-lane undivided roadway, new single span bridge, box culvert and wildlife crossing. Responsible for environmental reviews; coordination with permitting agencies and County; development of wetland and wood stork mitigation; coordination with USFWS and County on wildlife crossing. (2015)
- J **Southern Blvd./SR 80 Bridges Replacement, Palm Beach County, FDOT District 4, FM: # 419013.1** – Senior Environmental Scientist for the replacement and design of Southern Blvd. Bridges over the Intracoastal Waterway and Lake Worth Lagoon between West Palm Beach and Palm Beach. Responsible for evaluating wetlands, essential fish habitat, and endangered species impacts, environmental permitting support, agency coordination, benthic surveys, plan notes and plan reviews, and mitigation. (2013-2016)



Education

AS-Zoology, Santa Fe Community College, 1992

AA-Tallahassee Community College, 1987

Professional Training, Licenses and Organizations

Hydric Soils Training, Florida Association of Environmental Soil Scientists

FDEP Qualified Stormwater Inspector #5632

Prescribed Fire Basic Training, FFS

Wildland Fire Fighter Certification

Mine Safety and Health Administration Safety Certification

Master Bird Bander 23160

FDACS Commercial Applicators License CM22578

Florida Native Plant Society

William David Gordon, Senior Ecologist



As Wildlife Ecologist for Quest since 1997, Mr. Gordon is responsible for wildlife and habitat studies, land management and restoration plans, threatened and endangered species surveys, wetland assessments, and wetland and upland mitigation site management.

David’s over 18 years of experience includes: development of field monitoring and wildlife survey methodologies; capture, banding and radio telemetry tracking of a variety of bird species including scrub-jays, burrowing owls, and crested caracara; management plans for protected reptiles, birds, mammals and game species; wetland mitigation design, construction and oversight; and land management activities including prescribed burning and herbicide application.

Mr. Gordon is a Master Bird Bander, Certified Pesticide Applicator, and Certified Prescribed Burn Manager. He is a recognized expert in Florida scrub-jay behavior. He has conducted experimental scrub-jay translocations for over 10 years and has completed countless surveys and spent thousands of hours monitoring and banding scrub-jays.

Ecological Evaluations - Wildlife Surveys

Ft. Lauderdale Airport Burrowing Owl Translocation - Participated in the burrowing owl translocation from the Fort Lauderdale International Airport. Working with the airport biologist and staff from the non-profit Global Owl Project, David conducted burrow surveys, trapping, banding and transport of owls from the airport infields to recipient sites identified by the South Florida Wildlife Center. The intent of the project is to prevent owl – aircraft collisions using non-lethal methods, while providing the burrowing owls with the potential to re-establish in alternative habitats.

- J **Regional Scrub-Jay Nesting Surveys and Territory Mapping - Mosaic Fertilizer LLC** – Lead Ecologist for annual scrub-jay nesting season surveys, territory mapping, color banding, and monthly censuses on over 50,000 acres. Includes identifying scrub-jay locations, groups and hierarchy, banding, mapping territories and monitoring nesting activities during the breeding season. Hillsborough and Manatee Counties.
- J **Florida Burrowing Owl Translocations - Mosaic Fertilizer LLC** –. Project Ecologist since 2009 to 2017 responsible for ongoing field and permitting activities for annual translocation of owls nesting in areas permitted for phosphate mining, to post-mining, reclaimed pastures. Duties include FWC coordination and permitting; surveying and identifying burrow locations; constructing temporary flight and transport cages; installation of subterranean artificial nest boxes; capture, banding and transport of owls; and ongoing monitoring of translocated birds. Hillsborough, Manatee, and Polk County.
- J **Moody Branch Scrub-Jay Banding and Monitoring– Florida Fish and Wildlife Conservation Commission** - Conduct scrub-jay surveys for three existing populations bi-annually to complement the existing JayWatch scrub-jay monitoring program, and acclimate and band all scrub-jay juveniles and immigrants. This property is co-owned by Florida Fish and Wildlife Conservation Commission and Manatee County.
- J **Scrub-Jay Translocation and Radiotelemetry Project - Mosaic Fertilizer LLC** - Project Ecologist responsible for all field data collection, monitoring and habitat management oversight for 8 year annual experimental translocation project. Responsible for capturing, banding and translocating scrub-jays from habitats permitted for mining to a 1,000 acre managed xeric scrub preserve in Manatee County. Translocated jays are fitted with radio transmitters and movements are tracked and mapped for each scrub-jay over a seven month period following release. Hillsborough and Manatee Counties.
- J **Lake County HCP** - Project Ecologist assisted with determining species to be covered and developing datasets for the extent and type of habitats present based on land cover and soils.

Wetland Evaluations - Permitting and Compliance, Mitigation

- J **Manatee River Benthic Surveys, Rossi Park to Riverview Drive – Florida Power and Light** - Assisted with benthic field surveys for an underwater FPL transmission line to support permitting needs for upgrades to the transmission line. Manatee County.
- J **Baseline Documentation Report Hooker’s Prairie Conservation Easement – Mosaic Fertilizer LLC** - Performed baseline monitoring to describe ecological conditions, including land use, vegetation, wildlife, and general hydrology of a 1,602.16 acre conservation easement. Pedestrian, vehicular, and helicopter surveys were conducted to obtain a minimum 15% aerial coverage of all representative habitats. Hillsborough County.
- J **Charlotte County Habitat Conservation Plan (HCP)** – Project Ecologist for development of county-wide HCP for Florida scrub-jay. Responsibilities include field surveys to identify and map potential scrub-jay habitat and conduct county-wide scrub-jay surveys; design Reserve System alternatives; assemble data and coordinate population viability analysis (PVA); coordinate with FWC, FWS and the Technical Advisory Team; and prepare for and participate in public workshops.



Education

MA-Ecology, University of North Carolina, 2000
BS-Natural Resources, University of the South, 1994

Professional Certifications and Organizations

Certified Professional Wetland Scientist, 2006 – present

Certified FL Stormwater, Erosion and Sediment Control Inspector, 2004 – present

Society of Wetland Scientists, member since 2005

Florida Native Plant Society, member since 2000

Vice-President, Southeastern Chapter of the Society for Ecological Restoration, 2007-2009

Mary McRae James, MA, PWS, Senior Ecologist



construction inspection.

Mary M. James, MA, PWS contributes more than 18 years of diverse ecological experience to the Quest Team. Her areas of expertise include project management, environmental permitting, ecological restoration, plant taxonomy, mitigation banking, habitat assessment, vegetation monitoring, wetland delineation, plan reviews, and

Mary has worked in the private sector for a Fortune 500 company, as an environmental consultant to public and private clients, and as a government employee, giving her the advantage of multiple perspectives.

Since joining Quest in January 2016, her primary duties have included serving as Project Manager for a 1600-acre mitigation bank in Levy County, leading a floristic inventory of Manatee County's Duette Preserve (22,000 acres), and coordinating Environmental Assessments for multiple FP&L projects throughout the state.

Prior to joining Quest, Mary managed a variety of environmental projects for diversified engineering/consulting firms, providing services that included environmental permitting; project management (scheduling, budgeting, client/subcontractor management); site assessment (wetland delineation, habitat assessment, wildlife/vegetation surveys and monitoring); construction monitoring; marketing, and technical writing.

As Sr. Environmental Specialist with Pinellas County she provided assisted with the inspection and management of mitigation wetlands throughout the County; conducted environmental permitting and field reviews for open conveyance maintenance projects; reviewed and commented on engineering; conducted environmental permitting research and field reviews to determine potential surplus mitigation credits; prepared budgets and bid specifications for planting and maintenance contracts; conducted gopher tortoise surveys and wildlife assessments; and provided recommendations for development of new Storm Water Manual.

Ecological Evaluations and Wildlife Studies

-) **Duette Preserve Floristic Inventory** – Preparation of a plant species list for a 22,000-acre Manatee County preserve containing high quality examples of oak scrub, scrubby flatwoods, wet prairies and bottomland hardwood communities. Documented habitat associations for all species identified and recorded locations of state/federally listed plant species.
-) **SFWMD/FDOT Mitigation Monitoring/Reporting** – Assisted with monitoring and reporting of FDOT mitigation projects at two Pinellas County locations (Alligator Lake & Boyd Hill).
-) **Mosaic Mitigation Wetland Monitoring/Reporting** – Performed vegetation monitoring, data analysis, and assisted with QA/QC of monitoring reports for multiple forested and herbaceous mitigation wetlands in Hillsborough and Polk Counties.
-) **Scrub Conservation Bank Annual Monitoring** – Conducted annual monitoring and reporting at a ~150-acre scrub conservation bank in Highlands County permitted by USFWS and FWC to compensate for impacts to Threatened and Endangered species, many endemic to the Lake Wales Ridge.
-) **Bay Way Bridge Demolition Marine Species Watch** – Coordinated watch team, permitting compliance, and report preparation for demolition of bridge over Boca Ciega Bay in Pinellas County
-) **Gasparilla Invasion Marine Species Watch** – Coordinated 20+ volunteers and prepared FWC/USFWS report for protected marine species watch during annual marine parade in Tampa Bay.
-) **Wall Springs Park Gopher Tortoise Survey** – Conducted gopher tortoise survey on ~100-acres of newly-acquired coastal scrub habitat to assist planning for park expansion and development.

Wetland Evaluations - Permitting and Compliance, Mitigation

-) **Florida Gulf Coast Wetland Mitigation Bank** – Restoration planning, permitting compliance, vegetation monitoring, quarterly inspections, and reporting for ~1600-acre mitigation bank in Levy County.
-) **Curlew Creek Restoration** – Project management, permit compliance, and preparation of planting and monitoring plans for an urban creek restoration project in Pinellas County.
-) **MacDill AFB Saltmarsh Restoration Monitoring** – Performed quantitative monitoring and reporting and provided management recommendations for a 3-acre saltmarsh restoration project.
-) **Water Works Park** – Served as project manager and coordinated regulatory requirements of 11 affected agencies to obtain required authorizations for a 5-acre park development and dock construction project on the Hillsborough River. Also performed weekly BMP inspections during construction.
-) **Palm River Park Management Plan Update** – Prepared and secured approval for a 10-year park management plan update for the City of Tampa.
-) **Navigational Markers** – Coordinated permitting, installation, and USCG permit compliance for six navigational markers near Oldsmar, FL.
-) **NCH-10 Restoration Monitoring** – Provided 3 years of annual monitoring and reporting for

mitigation at Spoil Island (NCH-10) in Boca Ciega Bay Aquatic Preserve. The public interest mitigation was required by FDEP for a nearby dock replacement project.

Utilities – Environmental Assessments and Permitting

-) **FP&L Environmental Assessments** – Conducted site assessments and prepared reports summarizing potential wetland and wildlife impacts and permitting requirements associated with ~34 pole hardening projects throughout the state.
-) **C-41A Canal Subaqueous Utility Installation** – Prepared FDEP, USACE, and SFWMD R/W permit applications for a ~2000 LF underground utility installation, including a subaqueous horizontal directional drill beneath SFWMD’s C-41A Canal in Highlands County.
-) **St. Lucie River Subaqueous Utility Installation** – Prepared FDEP and USACE permit and sovereign submerged lands easement applications for subaqueous installation of 1810 LF of conduit containing electrical facilities beneath a Section 10 water and Federal channel.
-) **Hardee County Natural Gas Main Installation** – Conducted environmental assessments and obtained USACE and FDEP authorizations to install 7.2 miles of natural gas main, including SSL easement for subaqueous installations beneath Peace River and first-order tributaries.

-) **U.S. Homes Development Project** - Provided regulatory oversight, including a jurisdictional determination, prior to issuance of a Federal permit authorizing wetland impacts, wetland creation, upland preservation, and a conservation easement on a 129 acre project site. Pinellas County.
-) **South Ft. Meade Mine, Cargill Fertilizer, Inc.** – Performed field verification of the Federal wetland jurisdictional determination over approximately 10,000 acres of land slated for phosphate mining. Polk County.
-) **Pinellas County Department of Solid Waste** - Provided regulatory oversight, including field verification of the Federal wetland jurisdictional determination, listed species consultation and mitigation review, prior to issuance of a Federal permit authorizing wetland impacts for the build out of the Bridgeway Acres Landfill.
-) **Bartlett Park Lake Improvements, SWFWMD** - Provided regulatory oversight prior to issuance of a Federal permit authorizing wetland impacts for the purpose of restoring a tidal marsh on a tributary to Tampa Bay and construction of two artificial reefs. Pinellas County.
-) **Quality Aggregates, Inc. Phase XI Mine** - Provided regulatory oversight, including a jurisdictional determination and mitigation review, prior to issuance of a Federal permit authorizing wetland impacts for the purpose of mining sand. Manatee County.
-) **St. Petersburg Junior College and the SWFWMD** - Provided regulatory oversight, including a jurisdictional determination, prior to issuance of a Federal permit authorizing wetland impacts for the purpose of constructing a 12.9 acre Wetland Enhancement and Storm water Retrofit (WESR) project located on the 102 acre SPJC Seminole Campus. Pinellas County.
-) **IMC-Agrico Mine Wide Regional Jurisdictional Determination** - Field verified over the course of a year the Federal jurisdictional determination over approximately 55,000 acres of land slated for phosphate mining. Polk, Manatee, Hillsborough and Hardee Counties.
-) **U.S. Homes Development Project, Heritage Harbour** - Provided regulatory oversight, including a jurisdictional determination, prior to issuance of a Federal permit authorizing wetland impacts, wetland creation, upland preservation and a conservation easement on portions of a 2,000 acre project site. Manatee County.

Ecological Evaluations – Wildlife Studies

-) **Davenport Listed Species Survey** – Conducted listed species surveys for gopher tortoises, sand skinks and blue-tailed mole skinks on a proposed development site. Polk County.
-) **Headwaters Preserve Anuran Auditory Survey**- Designed and implemented anuran auditory surveys as part of pre and post phosphate mining monitoring of adjacent lands. Manatee County
-) **Eastern Indigo Snake Survey**- Conducted 24 hours of pedestrian surveys on the Mosaic Wellfield site as part of an annual monitoring requirement from the US Fish and Wildlife Service. Manatee County.



Education

MS-Biology, Tennessee Technological University, 1992

BS-Biology, Virginia Tech, 1990

Professional Training, Licenses and Organizations

Society of Wetland Scientists
Certified as a Professional Wetland Scientist (PWS 0001107), 1997, renewed 2013

Tampa Bay Association of Environmental Professionals

Florida Association of Environmental Soil Scientists, Affiliate Member

Jacqueline Lee Cook, MS, PWS, Senior Ecologist



Jacqueline Lee Cook, Senior Ecologist for Quest Ecology Inc. has over 19 years of experience in ecosystem analysis, environmental permitting, wetland delineation, and wildlife studies. Ms. Cook's areas of specialization include hydric soil identification, wetland ecology, and herpetology.

Prior to her employment at Quest Ecology, Ms. Cook worked as a Wetlands Biologist in the Regulatory Program of the U.S. Army Corps of Engineers for nine years. Her main duties consisted of conducting jurisdictional determinations over Waters of the U.S. as well as extensive field reviews for Department of the Army (DOA) permit applications. Ms. Cook performed permitting of large development projects and mining operations, including mitigation design, and enforcement actions.

Ms. Cook was also instrumental in developing the field review portion of the Corps of Engineers Wetlands Jurisdictional Certification Program. She frequently provided wetland delineation training to State and Federal employees and members of the private sector.

Wetland Evaluations- Permitting, Compliance, Mitigation

- **Lakeland Center Park Drive, City of Lakeland –** Conducted wetland jurisdictional determinations, listed species surveys, wetland impact assessments and UMAM analysis for new roadway extension. Attended pre-application and field meetings with SWFWMD staff to evaluate alternative alignments and identify mitigation options. Evaluated potential impacts to gopher tortoises and utilized the 2008 Wood Stork Key for Central and North Peninsular Florida to identify potential project effects on wood storks. Polk County. Obtained all state and federal permits.

- **Duette and Headwaters Preserve Hydrologic Restoration Monitoring-** Assisted in project development and performed qualitative monitoring on wetlands to determine the effects of wetland restoration via ditch blocking. Assisted in the research and creation of the final report detailing the monitoring program that employs several methods for evaluating the changes that have, or will, take place within restored wetlands. Manatee County.
- **Fort Green Plant Site, Mosaic Fertilizer, LLC-** Performed jurisdictional determination on remnant phosphate plant site and pipe yard walk-path. Conducted extensive gopher tortoise survey over approximately 50 acres. Polk County.
- **Spar(1) Wetland, Mosaic Fertilizer, LLC-** Performed a wetland delineation and mapped planted tree communities within a created wetland in support of permit conditions. Hillsborough County.
- **North Tampa Mitigation Bank, MBR Ventures -** Conducted initial field evaluations to determine site suitability and performed the jurisdictional determinations. Prepared the majority of the permit documents including the Prospectus, the Public Notice and the Final Mitigation Banking Instrument. Coordinates with agencies and oversees tasks related to performance standards to facilitate credit releases. Hillsborough County.
- **Tippen Bay Mitigation Bank -** Conducted initial field evaluations to determine site suitability and performed the jurisdictional determinations. Calculated potential credit yields utilizing UMAM. Participated in pre-application meetings with the SWFWMD and the USACE. Submitted state and federal permit applications. Received State permit. DeSoto County.
- **Forcemain 1M -** Lead wetland ecologist responsible for all field surveys, environmental permitting assistance and the Environmental Report associated with replacing a 24 inch diameter force main. Manatee County.

Ecological Evaluations – Wildlife Studies

- **Davenport Listed Species Survey** – Conducted listed species surveys for gopher tortoises, sand skinks and blue-tailed mole skinks on a proposed development site. Polk County.
- **Headwaters Preserve Anuran Auditory Survey-** Designed and implemented anuran auditory surveys as part of pre and post phosphate mining monitoring of adjacent lands. Manatee County
- **Eastern Indigo Snake Survey-** Conducted 24 hours of pedestrian surveys on the Mosaic Wellfield site as part of an annual monitoring requirement from the US Fish and Wildlife Service. Manatee County.
- **Scrub Conservation Bank** – Conducted Florida sand skink pedestrian surveys as part of an annual monitoring requirement to document compliance with the Long-Term Management plan for the Scrub Conservation Bank. **Florida Power and Light-** Conducted a wooden power pole cavity survey for the Florida bonneted bat using a wireless cavity inspection camera on a telescopic hot stick.



Education

BS-Marine Science, Eckerd College 2008

Professional Training, Licenses, and Organizations

Tampa Bay Association of Environmental Professionals

Tampa Bay Watch

Charlotte Harbor National Estuary Program
GIS Applications for Natural Resource Management, University of Florida

Mining Safety Hazard Assessment Training (MSHA) Annually

FDEP Qualified Stormwater Management Inspector

SWFWMD Wetland Assessment Procedure

Rebecca Barkdoll, Environmental Scientist



Rebecca Barkdoll has a degree in marine biology and brings experience in both terrestrial and aquatic environments. Her field experience includes characterizing vegetation/habitat conditions, surveying and mapping nuisance and exotic plant species, collecting water quality samples, wildlife surveys and monitoring, soil moisture surveys, conducting permit compliance monitoring and reporting for wetland mitigation areas.

Rebecca has conducted gopher tortoise surveys and assisted in burrow excavations and relocations of tortoises and their commensal species. Additional wildlife experience includes bald eagle monitoring, Sherman live-trapping surveys for Florida mouse in reclaimed upland habitats, southeastern American kestrel nest surveys, eastern indigo snake surveys, Florida scrub-jay nest and territory surveys, and burrowing owl surveys and monitoring.

Rebecca uses her GIS skills to assist with the creation of maps and figures for a wide variety of projects and proposals. She also uses GIS for data search and analyses in support of Contamination Screening Evaluation Reports for the FDOT.

Wetland Evaluations – Permitting and Compliance, Mitigation

Wetland Restoration Monitoring of FDOT Mitigation Sites, South West Florida Water Management District – Project ecologist assisting with the design and implementation of quantitative and qualitative wetland and upland mitigation monitoring and habitat assessments resulting in permit required scientific reports provided to the Army Corps of Engineers. Also provide GIS analysis and mapping. Sites include Mobbly Bayou, Colt Creek State Park, Boyd Hill Nature Preserve and Alligator Lake Management Area and are in Hillsborough, Pinellas and Polk Counties.

- J **Environmental Assessment, Power Pole Work, Florida Power and Light** – Field surveys of existing and proposed power pole locations prior to maintenance and/or installation. Determine whether each location is within or adjacent to a wetland and other environmental considerations. Check poles for cavities that may house listed or protected bird species. Analyze field data and help create reports, including data tables and photos. Manatee County, Sarasota County.
- J **Supplemental Tree Planting Oversight, MOSAIC Fertilizer, LLC.** – Assessment of forested mitigation wetlands, flagging and GPS to designate areas in need of supplemental tree planting. Creating maps depicting these areas as well as locations of nuisance/exotic species. Planting oversight and re-evaluation to assess survival of tree specimens and success of planting. Hillsborough, Polk, Manatee, & Hardee Counties.
- J **Wetland Restoration Monitoring, MOSAIC Fertilizer, LLC.** – Quantitative monitoring of wetland reclamation areas, accurately identify species and estimate groundcover, nuisance/exotic species cover, measure tree density and estimate canopy cover, observe hydrologic conditions, and identify wildlife species. Establish new transects and use GPS to record endpoint locations. Re-establish existing transects as needed. Provide photo documentation of transect location and conditions. Process data and produce reports of findings to the client and permitting agencies (US Army Corps of Engineers, Florida Department of Environmental Protection, and Hillsborough County Environmental Protection Commission). Advise client on future maintenance and planting events to meet success criteria. Hillsborough, Polk, Manatee, & Hardee Counties.

Ecological Evaluations- Wildlife Studies

- J **Gopher Tortoise Surveys and Wetland Delineation Tri-County Trail from Pasco County Line to South Terminus of Starkey Trail** - Performed gopher tortoise burrow surveys, designated activity status of each burrow. Assisted in wetland delineation along the corridor. FDOT District VII Pasco County, FL
- J **Gopher Tortoise Surveys I-75 from Pasco /Hernando County Line to South of SR 50, FDOT District 7** - Conducted gopher tortoise burrow surveys of the entire right of way and median corridor as well as for five (5) stormwater pond sites. Hernando County.
- J **Florida Burrowing Owl Observation and Burrow Maintenance, MOSAIC Fertilizer, LLC.** – Ongoing monitoring of naturally occurring and relocated Florida burrowing owls on Mosaic property in Fort Green. Inspections and maintenance of artificial burrows at the relocation site; daily observations and daily feedings of relocated burrowing owls during their acclimatization in enclosures at the recipient site. Hillsborough County.

4.0 APPROACH TO SCOPE OF WORK

4.1 *Project Management*

Quest's approach to this project is one based on many years of experience with similar projects involving mitigation planning and implementation, and all of the tasks associated with successful execution of such plans. Our ultimate goal will be to provide you with a mitigation site which satisfies Broward County Environmental Protection and Growth Management Department (BCEPGMD) criteria and preserves the County's natural heritage. Our project management approach of acting as an extension of your staff will ensure that each portion of the project is on schedule, that the Regulatory Agencies and Project Management Team agree to the mitigation plan and success criteria early. This approach will facilitate the establishment of the conservation easement efficiently and cost effectively.

The required availability and flexibility calls for an Adaptive Management approach. This means being responsive to the Agency's, City's, and Airport's concerns and adapting our schedules and staffing appropriately to these concerns. The cornerstone of this plan is our proposed staff, including a Project Manager who has lived and worked in the County for over two decades and will be dedicated to this project for the entire multi-year lifespan of the project. Our Project Manager will also be supported by experienced staff in our local, Broward county office. We have worked with the City and the BCEPGMD and are familiar with local ordinances, policies and public concerns.

4.2 *Establish Mitigation Specifications and Conservation Easement*

Clear and realistic restoration designs and success criteria are vital to any mitigation plan. Based on recent, on-site observations, Natural Resource Area #70 is a predominantly upland habitat with a limited canopy of native species and multiple exotic, invasive tree and understory species. Our mitigation plan will take into account the local ecology, site specific conditions, and site history along with all project related impacts requiring mitigation. The restoration design will also consider existing soil types, hydrologic conditions and the ability/cost to provide supplemental watering, including the proximity to any irrigation resources. Planning will begin with a detailed site survey to determine these features and identify potentially affected native and/or protected flora and fauna. This may serve as the "baseline" for documenting existing conditions. Mitigation designs will incorporate existing natural features to the greatest extent practicable, and endeavor to improve habitat for native wildlife onsite or in the vicinity that may benefit from the mitigation.

Quest's Senior Environmental Scientist and Project Manager has worked and coordinated closely with the BCEPGMD on recent projects requiring extensive construction oversight, tree protection and mitigation, planting oversight, and permit and agency criteria compliance, including his role as the Senior Environmental Scientist and Environmental Compliance Specialist on the 595 Express Improvements Project. Quest plans to use this relevant experience and the relationships developed over this five year project in order to ensure project success from the initial planning stages, through establishment of the conservation easement and ultimately the completion of the 5 year compliance monitoring and project close out process. Our experience with the preparation and execution of conservation easement documents for mitigation areas will serve to expedite this process and allow us to identify boundaries, access, conditions, allowable uses and monitoring requirements early in the process.

4.3 Construction Management

We will be proactive with preparing bid specifications and manage the bidding and award process so that the project transitions smoothly to the construction phase and ultimately the finished project and close out. Bid specifications will be precise to avoid contractor claims, and schedule issues. We will prepare bid documents that ensure the City will obtain highly qualified contractors at reasonable costs. We recognize the need for close coordination with contractors and City staff when preparing for and implementing construction and planting activities, and our highly qualified field staff will remain on call during these phases to ensure coordination, input and oversight is available at any time.



Quest's Broward County office on Commercial Boulevard is less than five minutes away from the project site. This advantageous location allows for a maximum amount of site visits during the environmental construction observation portion of the scope at a minimal cost to the City. Frequent site inspections are the key to successful construction oversight: as the City's "eyes and ears" on the job site it is critical that clear documentation of construction progress and on-site conditions is regularly provided to the City's Project Management team. This also assures the City that mitigation plan specifications are being met, the contractor is performing, and payments can be made without reservations. Our plan will be to stay on top of each phase of construction whether surveying, clearing, planting, earthmoving or spraying, to ensure timely and accurate completion of each task. We bring significant experience working with construction and maintenance crews and know the importance of good communication skills and clear instructions with the foreman and crew members. Our expectations and final product need to be clearly and concisely communicated to avoid misunderstandings, schedule lapses, or issues with expected performance standards.



Our proximity to the project also allows for a rapid response to unforeseen issues including severe weather, heavy rainfall, and/or unanticipated wildlife encounters. Quest has been called upon in the past to address failure of erosion control and resulting damage to mitigation areas after heavy rainfall events. We have remained available on short notice and weekends to oversee repairs and removal of sedimentation from restoration sites. Another example of a potential issue requiring a prompt response during construction unique to this project is a possible encounter with the State listed burrowing owl. Burrowing owls have been documented on multiple sites in the immediate project area; this species has a tendency to forage in recently disturbed soils and utilize construction sites as habitat. This situation was encountered on our 595 Express Project, and the Quest PM was called upon to evaluate the options.

Our team is uniquely qualified to address any number of wildlife issues, having two Gopher Tortoise Agents at our disposal, a Master Bird Bander, and experience with the translocation of burrowing owls, Florida scrub-jay, gopher tortoise, Florida mouse and rare and protected plant species. We also recognize the potential need to accommodate native flora and fauna during the planning and design, as well as construction phases. Burrowing owls and other non-listed native bird species that may utilize the site are also protected by the Federal Migratory Bird Treaty Act. Construction timing may require the avoidance of nesting seasons; set-backs from burrows and nesting or roosting sites, and

implementation for Standard Construction Precautions for species such as the Eastern indigo snake. We also bring experience with contractor training to ensure the crew is familiar with potentially occurring species and to avoid inadvertent damage to natural areas, burrows, nest sites, etc. We have found that adhering to simple things like speed limits on the site can make a difference in ensuring the protection of native wildlife.

Prior to construction, a site meeting with the chosen contractor is recommended to discuss site conditions, plans, schedules and expectations for performance and execution. During the construction phase, some of the tasks anticipated may include marking burrow locations or flagging native trees and/or wetland areas to be preserved. We'll also conduct grading inspections for earthwork and pre-planting reviews in areas where nuisance/exotic vegetation is to be treated or removed. Erosion control devices required will be in place and inspected for proper installation. All plant material to be installed will be inspected for compliance with bid specifications regarding species, size, height, condition, and root ball health. Any plant substitutions must be approved prior to the time of planting. Oversight of planting activities will be conducted to ensure compliance with planting plans, including spacing, zonation and tree staking that may be required. Following the successful completion of construction and planting, a **time-zero monitoring event** will take place. The time-zero report will include construction and planting dates and methods, the number and species of plants installed, nuisance/exotic species cover, hydrologic conditions and photo-documentation.

4.3 Mitigation Monitoring

A quarterly monitoring plan will be prepared during the design phase for the project. This plan is anticipated to include statistical measurements and vegetative sampling, an assessment of nuisance/exotic cover and overall site conditions, wildlife utilization and photo-documentation. Monitoring methods will be specific to the design and function of the mitigation plan and vegetation community type, with an emphasis on data that will demonstrate permit-designated success criteria. Based on our long experience with designing and implementing such monitoring programs, Quest strongly believes in the use of site-specific methods and avoiding over-design of monitoring. The focus needs to be on collecting data that will represent site trends, comply with permit conditions, and enable determination of success criteria, all in a cost effective manner. Because the project calls for 20 monitoring events over a 5 year period, efficiency and reproducibility of data will be key.

We recognize that one of the most important functions of quarterly compliance monitoring and reporting is to ensure that the City's Project Management Team is aware of the onsite conditions and to ensure that the site is trending toward success. These reports will determine the need for maintenance, replanting, if there are trespass issues, or if any other remedial actions may be necessary. We will be sure to alert the City and maintenance contractor of any areas that need attention immediately to avoid the need for costly fixes.

4.4 Compliance Coordination and Close Out

The above approach to monitoring, including proactive response to potential problems and close coordination with contractors and agency personnel will assure compliance throughout the life of the project. All such coordination will be focused on achieving project success. Determination of the mitigation plan success criteria will be conducted during the design phase and will also depend on the specifics of the plan and the target communities involved. Success criteria is the final blueprint for

project which provides guidance and direction during the bid process, technical approach, compliance monitoring and, ultimately, the documentation of agency coordination and successful project closeout. Once success criteria has been achieved, we anticipate conducting site reviews with the City and BCEPGMD staff to obtain confirmation of success, formal release, and ultimate close out of project goals and permit requirements.

We recognize that one of the most important functions of quarterly compliance monitoring and reporting is to ensure that the City's Project Management Team is aware of the onsite conditions and to ensure that the site is trending toward success. These reports will determine the need for maintenance, replanting, if there are trespass issues, or if any other remedial actions may be necessary. We will be sure to alert the City and maintenance contractor of any areas that need attention immediately to avoid the need for costly fixes.

Determination of the mitigation plan success criteria will be conducted during the design phase and will also depend on the specifics of the plan and the target communities involved. Success criteria is the final blueprint for project which provides guidance and direction during the bid process, technical approach, compliance monitoring

5.0 REFERENCES

QUEST ECOLOGY INC. REFERENCES

Reference No. 1

Southwest Florida Water Management District

2379 Broad Street

Brooksville, FL 34604

Phillip Rhinesmith, 352-796-7211, ext. 4266, Philip.Rhinesmith@swfwmd.state.fl.us

On going

Estimated \$210,000 to date.

PROJECTS:

FDOT Mitigation Program Compliance and

Central Florida Coordination Area Wetland Resource Assessment



Three Water Management Districts (South Florida, St. Johns River and Southwest Florida) identified a need to conduct a regional assessment of wetland conditions in the Central Florida region due to rapidly increasing urbanization and growing demands in groundwater use. Previous analyses of monitoring efforts had concluded that some wetlands in the region appeared to be under stress from hydrologic and other factors. Initial assessments indicated a need to expand the assessment effort to better understand the extent,

magnitude and source of impacts to wetland resources (including lake littoral zones) in this area.

The overall objective of this work is to collect vegetation and hydrologic data from wetland assessment sites within the Central Florida region utilizing District designed collection methods. Quest Ecology collected survey data from previously established sites as well as at new sites that were identified as part of this effort.

This information was used by the Districts to evaluate the general condition of wetlands in the region, and to determine the extent and type of vegetative changes that may have occurred as the result of consumptive use withdrawals and other factors. The Districts assessed the data collected throughout the region to facilitate coordination among the Districts on water supply planning and resource regulation in the Central Florida Coordination Area (CFCA).

New sites that also include mitigation areas under the FDOT Mitigation Program include Colt Creek State Park and the Fussel Tract in Polk County. Quest **designed the pre-construction baseline and long-term monitoring plan. Time-zero mitigation monitoring** was implemented following SWFWMD's initiation of wetland restoration efforts. Colt Creek State Park is a 5,067 acre



tract of land adjacent to the Fussel Tract, a 1,238 acre parcel that together comprises a large area of headwater wetlands for both the Hillsborough and Withlacoochee river Basins. These large land parcels are located adjacent to the Green Swamp and are in Polk County, east of SR 471 and immediately north of the intersection with US 98. Quest developed the monitoring approach utilizing qualitative, quantitative and Wetland Assessment Procedure (WAP) techniques to evaluate the success of the onsite restoration. Quest continues to provide post-construction monitoring services for this and other FDOT mitigation sites and assists with remedial planting and maintenance plans.

Reference No. 2

Florida Department of Transportation District IV, Broward County

Anson Sonnett, PE, Project Manager (954) 777-4474 Anson.Sonnett@dot.state.fl.us

April 2015- Feb 2017

\$12,200

Glades Road Tree Inventory and Permitting

Quest's ISA Certified Arborist (CA) and LIAF Certified Landscape Inspector (CLI) provided a tree inventory, municipal and county coordination, and permitting services for impacts to trees and landscaping outside of the State –owned system associated with operational and capacity improvements along State Road 808 (SR 808) / Glades Road between SR 7 (US 441) and SR 5 (US 1 / Federal Highway) in Palm Beach County. Quest also performed inspections focusing on tree health, mitigation and appraisals to quantify appropriate candidates for replacement and appropriate mitigation planting plans.



Reference #3

Tampa Bay Water

2575 Enterprise Road

Clearwater, FL 33763-1102

Christopher Shea, (727) 796-2355, cshea@tampabaywater.org

2005-2012 (contract) 2012-current (purchase orders)

Estimated \$200,000 to date

Reservoir Mitigation Monitoring, Management, Bid Preparation and Contractor Oversight

Tampa Bay Water is a quasi-public utility providing finished drinking water to the Tampa Bay region. Under this as-needed services contract, Quest designed and implemented the monitoring methods and permit compliance protocols for the 300 acre West Pruitt Mitigation Area, one of three mitigation sites associated with the CW "Bill" Young Regional Reservoir project. Quest's scope included finalizing monitoring methodologies, locating and establishing transect locations, and collecting qualitative and quantitative data for the created and enhanced forested and herbaceous wetlands and uplands. **The goal was to coordinate with contractors and agencies to maintain permit conditions and achieve**



success criteria for the West Pruitt site, which was successfully accomplished within three years of implementation.

Quest also conducted land management activities for the entire reservoir site, upland and wetland mitigation areas, and 20 stormwater ponds. Quest ecologists worked closely with Tampa Bay Water's Project Manager in developing pragmatic and cost effective ecological solutions for the management and maintenance of the

Reservoir site. **Quest managed contractor bids for much of this work, including supplemental planting and maintenance contracts for upland and wetland mitigation, storm-water pond littoral shelves, shade tree zones, and erosion and sedimentation control areas.** As part of bid management, Quest began by conducting field surveys to determine the scope of work to be included in all bid packages, such as listing and mapping areas of nuisance vegetation to be controlled, and preparing planting plans, maps depicting planting zones, and plant species, size and spacing specifications. The next steps included identifying qualified contractors, bid package preparation, a pre-bid meeting including a site tour with potential contractors; and evaluation of bids received. Oversight of planting and herbicide treatments took place, as well as post-work inspections to determine the completeness and effectiveness of the contracted work, and apply plant survival guarantees.

Additional land management and contractor oversight tasks Quest assisted with included feral hog management, erosion control (silt fence) installation, mowing, and fence and gate maintenance. Quest also prepared prescriptions and successfully completed 35-acre and 55-acre prescribed burns on the property.

Quest continues to provide quarterly compliance inspections and prepares remedial planting and maintenance plans for the 20 stormwater ponds located throughout the site.

Reference No. 4

South Broward Drainage District

Contact: Kevin Hart, P.E. District Director (954) 680-3337 Ext. 206 kevin@sbdd.org

2010-2015 (March to March)

\$11,100

184th Avenue Improvements Mitigation Site Monitoring and Management

Quest Ecology's environmental scientists conducted statistically valid field sampling protocols in order to submit permit-required compliance monitoring reports to the jurisdictional agencies for the 184th Avenue Improvement Project Mitigation site. The South Broward Drainage District plays an important

role in the stormwater management in southwest Broward County. To ensure proper water management, drainage improvement projects to storm water management areas lakes and canals are often necessary. In the implementation of the 184th Avenue Improvement Project wetlands were unavoidably impacted in order to facilitate local drainage improvements. The area that was temporarily filled during construction was regraded and returned to its original contours following the completion of construction and a mixture of native herbaceous wetland plants were installed in order to supplement the natural recruitment of wetland vegetation.

Each monitoring report documented the percent survival of the original plantings, the presence of naturally recruited native plant species, hydrologic indicators, and the approximate percent cover of exotic and nuisance vegetation within the restored areas. In the spring of 2015 Quest coordinated with the client, maintenance staff and representatives from regulatory agencies to release the site from long term compliance monitoring.

7.0 SUBCONSULTANTS

Quest is not proposing the use of subconsultants on this contract.

8.0 REQUIRED FORMS

STATEMENT OF QUALIFICATION CERTIFICATION

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

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

Company: (Legal Registration) Quest Ecology Inc.

Address: 735 Lakeview Drive

City: Wimauma State: FL Zip: 33598

Telephone No. 813-642-0799 FAX No. Email: vivienne@questecology.com

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

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

Table with 4 columns: Addendum No., Date Issued, Addendum No., Date Issued

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.

The below signatory hereby agrees to furnish the following article(s) or services at the price(s) and terms stated subject to all instructions, conditions, specifications addenda, legal advertisement, and conditions contained in the bid/proposal.

Submitted by:

Vivienne Handy, PWS Name (printed)

May 17, 2017 Date:

Handy Signature President Title

NON-COLLUSION STATEMENT

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

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

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

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

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

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

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

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

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.

LOCAL BUSINESS PREFERENCE CERTIFICATION STATEMENT

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

(1) _____
Business Name is a **Class A** Business as defined in City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. A copy of the City of Fort Lauderdale current year Business Tax Receipt and a complete list of full-time employees and their addresses shall be provided within 10 calendar days of a formal request by the City.

(2) _____
Business Name is a **Class B** Business as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. A copy of the Business Tax Receipt or a complete list of full-time employees and their addresses shall be provided within 10 calendar days of a formal request by the City.


(3) Quest Ecology Inc.
Business Name is a **Class C** Business as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. A copy of the Broward County Business Tax Receipt shall be provided within 10 calendar days of a formal request by the City.

(4) _____
Business Name requests a **Conditional Class A** classification as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. Written certification of intent shall be provided within 10 calendar days of a formal request by the City.

(5) _____
Business Name requests a **Conditional Class B** classification as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. Written certification of intent shall be provided within 10 calendar days of a formal request by the City.

(6) _____
Business Name is considered a **Class D** Business as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. and does not qualify for Local Preference consideration.

BIDDER'S COMPANY: Quest Ecology Inc.

AUTHORIZED COMPANY PERSON: Vivienne Handy  May 17, 2017
NAME SIGNATURE DATE

CONTRACT PAYMENT METHOD BY P-CARD

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

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

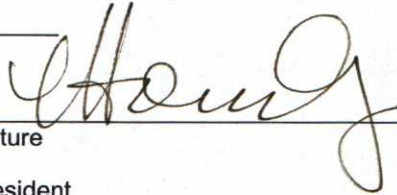
Please indicate with which credit card you prefer to be paid:

_____ Master Card

_____ Visa Card

Company Name: Quest Ecology Inc.

Vivienne Handy
Name (printed)



Signature

May 17, 2017
Date:

President
Title



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
11/8/2016

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 Lassiter-Ware Insurance of Tampa Bay 1300 N. Westshore Blvd. Suite 110 Tampa FL 33607	CONTACT NAME: Wendy Tyree PHONE (A/C. No. Ext): (800)845-8437 E-MAIL ADDRESS: wendyt@lassiter-ware.com	FAX (A/C. No): (888)883-8680
	INSURER(S) AFFORDING COVERAGE	
INSURED Quest Ecology, Inc. 735 Lakeview Drive Wimauma FL 33598	INSURER A: Homeland Insurance Company of New	NAIC # 34452
	INSURER B: Phoenix Insurance Company	NAIC # 25623
	INSURER C: Travelers Casualty & Surety Co	NAIC # 19038
	INSURER D:	
	INSURER E:	
	INSURER F:	

COVERAGES **CERTIFICATE NUMBER:** 16-17 Cert **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 INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:			7930027390002	11/6/2016	11/6/2017	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 50,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 1,000,000 PRODUCTS - COMP/OP AGG \$ 1,000,000
B	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS			BA8A25792016GRP	11/6/2016	11/6/2017	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ PIP-Basic \$ 10,000
A	<input type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$			7930027400002	11/6/2016	11/6/2017	EACH OCCURRENCE \$ 1,000,000 AGGREGATE \$ 1,000,000
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	XAUB4513T68216	11/6/2016	11/6/2017	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
A	Professional Liab Limits Included with General Liab			7930027390002 Claims-Made	11/6/2016	11/6/2017	Each Claim \$1,000,000 Aggregate \$1,000,000

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

CERTIFICATE HOLDER

CANCELLATION

~For Proof of Insurance c/o Quest Ecology, Inc. 735 Lakeview Drive Wimauma, FL 33598	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 P Schmaltz/WENDTY
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