ESciences

COPY

City of Sunny Isles Beach Continuing Professional Consulting Services (CCNA)

RFQ No. 20-07-01

Tuesday, August 11, 2020
2:30 p.m. EST

Submitted to:
Attn: City Clerk
Sunny Isles Beach Government Center
18070 Collins Avenue
Sunny Isles Beach, Florida 33160

1021 Ives Dairy Road, Ste. 216 Miami, Florida 33179 (786) 517-2632 www.esciencesinc.com

Tab A
Title Page

Tab A Title Page

E Sciences, Incorporated
1021 Ives Dairy Road, Ste #216, Miami, Florida 33179
Tel. (786) 517-2632
Contract Manager: Justin Freedman, MS
August 11, 2020
Continuing Professional Consulting Services (CCNA)
Request for Qualifications No. 20-07-01

Tab B
Table of Contents

Tab B Table of Contents

Tab C

Cover Letter and Executive Summary

Tab C Cover Letter and Executive Summary

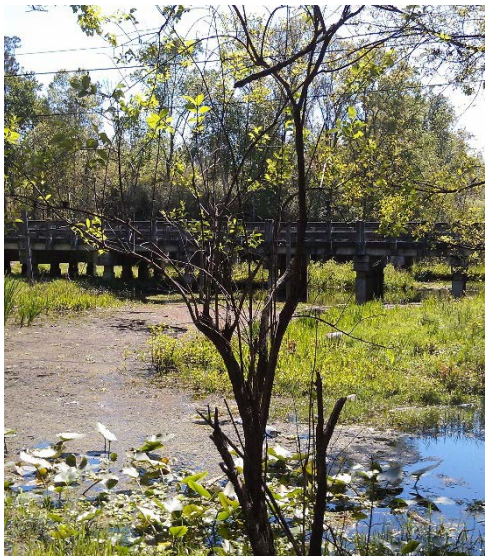
E Sciences, Incorporated (E Sciences) is pleased to submit our qualifications to provide consulting services to the City of Sunny Isles Beach (City) in the Environmental Engineering category. Our firm has extensive experience providing comparable services to municipalities and other government entities under similar contracts. We are committed to perform the work required under this contract accordance with the terms of this response and we will work in locations and within budgets set forth in assigned task work orders. E Sciences will maintain in good standing all required licenses, certifications and permits required under federal, state, and local laws necessary to perform the services.

Mr. Justin Freedman will be the project manager for this project. He manages the E Sciences' Miami, Fort Lauderdale and Clearwater offices. He will ensure that adequate resources are available and assigned to this contract to provide high quality consulting services to the City. Contact information for Mr. Freedman is provided below.

Justin Freedman, Associate/Senior Scientist
1021 Ives Dairy Road, Ste #216, Miami, FL 33179
Tel. (786) 517-2632 Fax. (305) 397-1556 Cell. (301) 602-0657
Email jfreedman@esciencesinc.com

E Sciences is well suited for this contract for the following reasons.

- E Sciences is licensed to do business in the State of Florida and have broad project experience relevant to the services requested in this RFQ. (See Tabs E and F).
- We have 20 local professionals available to provide consulting services under this contract in our Miami and Fort Lauderdale offices. We have 62 staff in our five Florida offices giving us the ability to deploy additional resources when needed to meet deadlines or accomplish numerous concurrent studies or projects. We maintain enough staff resources to accommodate our busiest times without causing delays for our clients. (See Tab E).
- E Sciences was founded in 2000. For the past 20 years we have provided engineering and environmental consulting to governmental agencies and have a record of performing well on governmental contracts such as this one. Many of our example projects included in Tab E and Tab F were performed under the second or third term of contracts which shows that our performance is rewarded with the continued selection of our services by our clients.
- E Sciences has a reputation for delivering projects on time and under budget. E Sciences consistently meets deadlines on our projects. We have often delivered projects early, when needed, to meet client goals. On occasion we have been given a contractual time frame initially contemplated during the preparation of a task order but expedited our services to deliver prior to the required deadlines to meet our clients' needs. Even during the COVID-19 pandemic, E Sciences continues to serve



our clients effectively while keeping our staff and clients safe. We are adept at managing risks and complications without impacting our clients or their projects.

- E Sciences is a small business enterprise under the federal guidelines in the disciplines of engineering and environmental services. We hold a Small Business Enterprise certification from the South Florida Water Management District (SFWMD) and the FDOT. Our size and progressive management structure allow us to be creative, nimble and responsive to our clients' needs.

- E Sciences strives to help our clients satisfy the people they answer to, residents, visitors, local business owners, the development community and elected officials. We will take the time to understand your needs and constraints and work with you to solve problems. Client references are included in Tab F.

Thank you and we look forward to your favorable consideration.

Sincerely,
E SCIENCES, INCORPORATED

Justin Freedman
Contract Manager

James S. Bassett, PE
Vice President

Tab D

Project Approach and Understanding

Tab D Project Approach and Understanding

E Sciences meets the criteria for the Environmental Engineering scope for this contract. Our local team of engineers and scientists provide similar services for nearby local municipalities and other governmental agencies. Our experience includes a range of projects that require engineering and environmental expertise that extend through the planning, design, permitting, bidding, and construction administration phases of projects. We anticipate that this service line may include wetland delineations and assessments, benthic resources surveys, permitting and mitigation development, wildlife surveys and permitting for state and federally listed species, Phase I and Phase II Environmental Site Assessments, tree inventories and tree risk assessments, National Environmental Policy Act (NEPA) assessment and documentation, stormwater management consulting and more. These services may be required for transportation projects, water/wastewater projects, park improvements and various types of civil improvements.

We have direct experience with each of these tasks, some that we have conducted for City of Sunny Isles Beach projects. For example, we have assisted the City by acquiring a Florida Department of Environmental Protection (FDEP) Coastal Construction Control Line permit for Samson Oceanfront Park and assisted with environmental portions of construction administration for the project. Recently, we conducted a Florida bonneted bat survey for a pedestrian walkway where FDOT and U.S. Fish and Wildlife Service coordination was required.

The following paragraphs highlight our project management plan, interpretation of the scope, method of approach, quality control procedures, scheduling methods and innovations that have proven to be successful on comparable contracts.

Project Management Plan and Approach

E Sciences' management philosophy is based on listening to City staff and understanding the City's business and technical needs, budgetary constraints, staffing needs, and project deadlines. We will develop our project-specific scopes to satisfy these needs, combining experience with ingenuity to find the best solution for each situation. We consider efficiency of design, quality of work, and on-time performance essential components of our company. Our aim is to provide accurate information and sound solutions that satisfy the needs of the City, regulatory agencies and the public. E Sciences can mobilize teams to simultaneously complete multiple projects. We have successfully managed projects ranging from simple studies to large multi-disciplinary projects. The goal of our project management program is to provide quality service that is responsive to the client's needs, is on time, and is within budget. Our organizational structure enables the project manager, Justin Freedman, to provide overall contract management; and to oversee project execution in a centralized manner. If appropriate for smaller tasks and projects that require specific expertise, Mr. Freedman may assign a project manager to handle the day-to-day execution of the project or task. This process will ensure that an integrated approach is used in executing individual task orders. Upon receipt of a task order from the City, Mr. Freedman will review the task order; provide the fee estimate; and schedule the workflow. He will then assemble and mobilize the appropriate professional and technical team members for executing the work. He will monitor the status of schedule, budget, technical quality and overall performance. Mr. Freedman excels at proactively working to avoid or mitigate project problems before they adversely affect the performance of the assigned services.

Interpretation of Project Scope

Our understanding of the scope comes from our review of the RFQ and our experience on similar contracts. We understand that the City wishes to secure contracts with a variety of qualified vendors from which to select and assign various projects. We understand that the scope for Environmental Engineering may include the following services: monitoring and mitigation, environmental studies and reports; preparing design and construction documents, construction administration and various reports for environmental engineering related projects. This will include preparing permit applications and acquiring permits from various environmental regulatory agencies including, but not limited to Department for Environmental Resources Management, (DERM), FDEP, and U.S. Army Corps of Engineers for projects.

Quality Assurance/Quality Control (QA/QC)

We have proposed Nadia Locke, PE, LEED AP to provide QA/QC for this contract. She is also the assistant project manager. E Sciences combines quality assurance into each facet of our services, from the first phone call to the final invoice. The ultimate purpose is to provide the City with the confidence that services are performed according to the appropriate industry standards and that quality assurance is integral to every step of our process. E Sciences has achieved successful results because of our detailed, structured approach to controlling workflow. Our methodology describes the tools and approach we typically utilize to ensure that our services are completed on schedule and within budget.

While the concepts discussed above are procedural and mechanical, total quality and success can only be achieved by jointly committing to goals established by the City, regulatory or other agencies involved, and the project's consultants. E Sciences is committed to the goal of working closely with the City, and drawing on the strengths, skills, and knowledge of each team member to achieve a quality project that is completed right the first time, within budget and on schedule.

Scheduling Methods

We understand the importance of production schedules and delivery dates. To meet project deliverable dates that may have accelerated schedules we have automated our project scheduling process from the inception of the project. We utilize Microsoft Planner to develop internal structure and deadlines to coordinate with all staff. When the project scope has been approved by the City, Mr. Freedman will initiate preparation of the necessary work plan, sampling plan, and health and safety plan as appropriate and set the project up in Microsoft Planner. The second tier of the project management process is to assemble and mobilize the most appropriate professional and technical team members for execution of the work. The project manager assigned to the task order will administer the day-to-day activities for the duration of the project. He or she will monitor and report the status of schedule, budget, technical quality, and overall performance for timely review by Mr. Freedman. With an adaptive management philosophy, should issues that unexpectedly impact schedules arise, Mr. Freedman will notify the City promptly and offer alternatives to mitigate schedule impacts.

Mr. Freedman will continue to regularly communicate with City staff. The update may be communicated in a written report, if so requested, or may simply involve affirmation of the project schedule and tasks performed over the past week via electronic mail, if preferred. Periodically, E Sciences will provide a project status report. This will likely be provided with an invoice (if a project is to be invoiced monthly) and other reports or documentation required by the task order or desired by the City's project manager.

Innovations

We try to incorporate innovation into our work when it can create efficiencies, deliver a better product or save our clients' money. Below are some examples from similar contracts.

- E Sciences has successfully implemented innovative regulatory approaches such as incremental sampling method (ISM) which resulted in both cost and time saving to our clients. Our extensive knowledge of the environmental rules and regulations allows us to branch into the use of "out-of-the-box" regulatory tools, such as ISM, composite sampling and statistical evaluations, to promote the success of our projects while promoting cost savings and expediting the project schedule.

- We assisted some of our clients with implementation of their National Pollutant Discharge Elimination System (NPDES) permits. Part of this project included developing stormwater management features asset management databases. Instead of sending staff out into the field to Global Positioning System (GPS) or survey locate drainage features, we have a team of Geographic Information Systems (GIS) analysts dedicated to georeferencing PDF versions of roadway and drainage plans and developing databases that include the location and attributes of each drainage feature.

- We have used Google Sketch-up and GIS to model the anticipated shade from a new or widened bridge. This was performed to document that the new structure will not have an increased shading impact the submerged aquatic vegetation below. This provides significant savings in mitigation costs.

- We monitor a 37-acre freshwater littoral marsh habitat that was developed as a mitigation project by a client. By using a drone to monitor the site instead of walking transects, we have reduced the labor cost of field work by 80 percent.

Tab E

Qualification Information and Assigned Personnel

Tab E Qualification Information and Assigned Personnel

E Sciences currently employs 62 staff across five Florida offices. E Sciences is a small business enterprise under the federal guidelines in the disciplines of engineering and environmental services. We hold a Small Business Enterprise certification from the SFWMD and the FDOT. Our size and progressive management structure allows us to be creative, nimble and responsive to our client's needs. We offer the following well-rounded, diverse and talented professional staff to our clients.

Size of Workforce by Discipline

Number of Staff	Discipline	Number of Staff	Discipline
10	Administrative	21	Environmental Scientist
3	Civil Engineer	4	GIS Specialist
5	Ecologist	3	Geologist
10	Environmental Engineer	5	Technicians/Interns
1	Scheduler	**TOTAL**	**62 Staff**

Besides the administrative staff, all our management personnel are also degreed engineers or scientists who work on projects. This keeps our overhead low and our management engaged in the business of serving our clients. This structure results in our ability us to make sound, rapid, informed business decisions based upon evolving professional and technical trends.

Past Record

Our South Florida team has also been awarded **prime continuing environmental engineering and science contracts** with the following Southeast Florida government entities:

- City of Miami
- City of Miami Beach (two terms)
- City of North Miami (two terms)
- City of North Miami Beach (two terms)
- City of Pompano Beach
- Pompano Beach Community Redevelopment Agency (two terms)
- City of Fort Lauderdale (three terms)
- City of Dania Beach
- City of Homestead
- Islamorada, Village of Islands (three terms)
- City of Key West
- Treasure Coast Regional Planning Council (four terms)
- FDOT District Four NPDES (three terms)
- FDOT District Four Environmental (two terms)
- FDOT District Four Mitigation, Wildlife and Environmental Services

E Sciences' experience serving local governments is a company-wide practice. In addition to our local contracts, our headquarters office has been awarded continuing services contracts with the following government entities.

- City of Orlando
- City of Oviedo
- City of Daytona Beach
- City of Sanford
- Seminole County
- Brevard County
- Volusia County
- Orange County
- FDOT Districts, One, Three and Five and Florida's Turnpike Enterprise

In addition, we have conducted similar services for additional local municipalities as a subconsultant.

- City of Sunrise
- City of Lauderdale Lakes
- City of Oakland Park
- City of Weston
- City of Deerfield Beach
- City of West Palm Beach
- City of Lake Worth
- City of Doral
- Village of Wellington
- Town of Southwest Ranches

Please consider the following key benefits offered by E Sciences:

- E Sciences has a reputation for delivering projects on time and under budget. E Sciences has consistently met our deadlines on all our municipal projects. We have often delivered projects early, when needed, to meet our clients' goals. On occasion we have been given a contractual time frame initially contemplated during the preparation of a task order but expedited our services to deliver prior to our required deadlines to meet a city's needs.

- E Sciences is a leader in corporate environmental stewardship. This commitment is evidenced by our selection of our corporate office location in a designated Brownfield area, employment of sustainable building renovation practices in all our office locations, encouragement and facilitation of employee sustainable practices and our LEED accredited professionals.

Our staff is dedicated to the profession of engineering and science as it relates to environmental projects. We are experts in bridging the gap between the science and engineering of environmental consulting and planning, construction, public interests and funding. In this submittal you will see a well-rounded team of professionals who are not only experienced in the services requested but provide a holistic and integrated approach to assisting the City achieve its goals. Permitting is one of the primary services E Sciences provides its municipal clients.

Pertinent Experience of Key Personnel

Justin Freedman, MS
Project Manager

Mr. Freedman is an experienced environmental professional serving public and private clients throughout Florida. He provides expertise in diverse service areas including urban forestry, environmental permitting and transportation related services and manages complex, multidisciplinary projects that include a variety of environmental and engineering related tasks. He manages E Sciences' Fort Lauderdale, Miami and Clearwater offices.

He specializes in municipal consulting and has provided plan review, landscape inspection, environmental assessments, expert witness, permitting, ordinance development, street tree inventory, canopy assessments, carbon sequestration analysis and wildlife permitting services to municipalities throughout Florida. He has also conducted numerous studies related to climate change and sea level rise and was involved with the preparation of the Broward County Climate Change Action Plan.

Mr. Freedman has had a significant role in urban forestry in Florida for many years. He served on the Executive Committee of the Florida Urban Forestry Council, recently in the role of president, and planned, chaired and moderated the Urban Forestry Institute for four years. Mr. Freedman was also a longtime member of the Southeast Florida Coral Reef Initiative and currently chairs the Urban Tree Task Force for the Smart Growth Partnership.

Mr. Freedman also specializes in transportation services. He has been providing consulting services to the FDOT for more than 10 years and manages a variety of transportation related contracts and projects. Projects include NEPA documentation for major Project Development and Environment and minor projects, NPDES and permit compliance inspections of FDOT assets, environmental resource permitting, landscape Construction Engineering and Inspection (CEI) and inspection services and mitigation and maintenance monitoring for dozens of FDOT constructed sites.

Nadia Locke, PE, LEED AP
QA/QC and Assistant Project Manager

Ms. Locke has been providing professional environmental and engineering consulting services for over 30 years. During her career, she has worked in many facets of environmental consulting including environmental audits, site assessment and remediation, stormwater design, sanitary sewer planning, environmental permitting, climate change impact evaluation, grant assistance, wetland mitigation design, endangered species relocations, Brownfields, community involvement, and training. Ms. Locke has provided litigation support for the FDOT, Miami-Dade Aviation Department, Barry University and private entities.

Ms. Locke is former Chair/President of the Smart Growth Partnership (SGP), Florida Brownfields Association (FBA) and South Florida Association of Environmental Professionals. She served as a commission-appointee to the Broward County Brownfields Redevelopment Task Force and on the Community Advisory Board for the Broward County Metropolitan Planning Organization (MPO). She also served as FBA Secretary, Co-Chair of the 17th Annual Conference and Co-Chair of the Technical Subcommittee of the Legislative and Policy Committee. She serves on the Fort Lauderdale Riverwalk Advisory Board.

She has been engaged in Brownfields since the inception of the program and has been conducting Phase I environmental site assessments, contamination assessment and remediation in Florida since the late 1980s. Her work for both the public and private sectors provides her with a unique understanding and practical approach to implementing cleanups both inside and outside of the Brownfields program. She has conducted public involvement and outreach on a variety of projects and on behalf of community or non-profit organizations such as the FBA and SGP. Ms. Locke is on the Board of FBA Environmental Justice Foundation.

Ms. Locke has been working on transportation projects in South Florida for over 20 years. As an engineer who works closely with scientists, she brings an understanding of the environmental, ecological and permitting issues associated with roadway design, construction and commitments.

She has been working on stormwater management projects in South Florida for over 15 years. As an engineer who works closely with scientists, she brings an understanding of the environmental, ecological and permitting issues associated with infrastructure design, construction and commitments. Ms. Locke has supported E Sciences stormwater master planning and NPDES permit compliance support projects for FDOT and local governments.

Brian Voelker, MS
Senior Scientist / Key Staff

Mr. Voelker is a senior scientist specializing in natural resource assessments and permitting, as well as certified arborist services. He provides numerous ecological services to clients, including the following: wetland delineation, function evaluation, mitigation design, monitoring, and permitting; upland habitat assessments; coastal habitat assessments and permitting; marine and estuarine habitat assessments and permitting; protected wildlife assessments and permitting; GPS data collection/mapping and GIS database development; NEPA document preparation and oversight; sediment and erosion control monitoring. Mr. Voelker is a Professional Wetland Scientist.

As an ISA Certified Arborist, Mr. Voelker provides numerous consulting arborist services to both public and private sector clients, including the following: GPS tree inventories and GIS tree database development; destroyed/damaged tree assessments; tree value estimates; tree grading; tree/utility conflict identification; hazard tree evaluations (risk assessment); analysis of tree canopy cover and ecological/monetary benefits; urban forest management plans; planting and maintenance bid packages, mangrove trimming oversight; tree removal permitting.

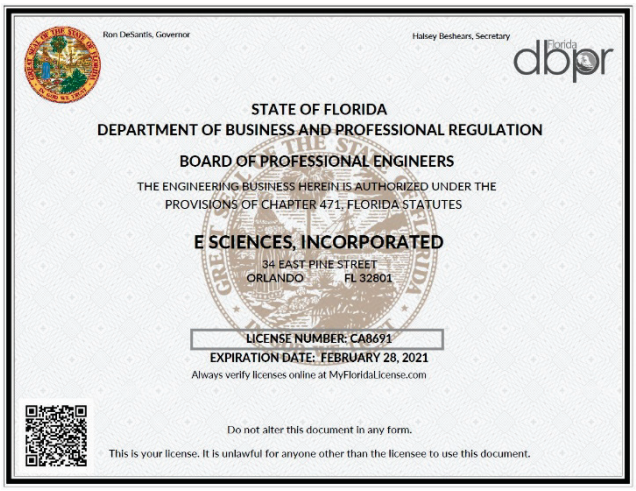
Patrick Shearer, PE
Senior Engineer / Key Staff

Mr. Shearer is a project manager and senior engineer with experience in civil, environmental and water resources engineering. He has experience successfully completing environmental studies and analyses including watershed-based studies, wetland mitigation plans, hydrologic and hydraulic modeling, stormwater management plans, shoreline stabilization and living shoreline plans, stream assessments, stream restoration plans, watershed management plans, and water resource related technical reports. He is experienced in ecological restoration including wetland restoration, stream restoration, and living shoreline projects in both freshwater and estuarine ecosystems, including the restoration and creation of tidal channels. Mr. Shearer has provided project management, engineering evaluation and design, survey coordination, modeling, permitting and construction administration for the above types of environmental resource projects. He has experience in wetland delineation, State and Federal stream and wetland permitting, Stormwater Pollution Prevention Plans, construction management, CEI services, environmental compliance support, NPDES, Environmental Resource Permits, and compliance inspections. He is also experienced with project feasibility studies, preliminary and detailed engineering design, grant procurement, bidding assistance, and design peer reviews. He has designed living shoreline projects which accommodate for sea level rise.

Mr. Shearer has based his career in preparing studies, project analysis and designs for private, municipal, state, and federal clients that have centered around ecosystem restoration in the context of environmental mitigation and estuary water quality improvement for sensitive watersheds draining to the Chesapeake Bay, Indian River Lagoon, Loxahatchee River, Florida Bay, and Biscayne Bay, among other important waterways. In addition, he has been involved with the FDOT District Four Indian River Lagoon Basin Management Action Plans (BMAP) compliance coordination, reporting and water quality improvement project assessment and documentation research. Mr. Shearer has provided technical support during the development of the Loxahatchee River Reasonable Assurance Plan evaluating data and coordinating involvement for FDOT District Four. Mr. Shearer's technical capabilities include AutoCAD Civil 3D, ESRI ArcGIS, Rivermorph Software, HEC-RAS, EPA SWMM 5.0, ICPR4, Total Station Instruments, GPS units, and various other hydrology and land planning applications.

Certifications and Licenses

E Sciences



Ron DeSantis, Governor

Halsey Beshears, Secretary

Florida dbpr

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

E SCIENCES, INCORPORATED
34 EAST PINE STREET
ORLANDO FL 32801

LICENSE NUMBER: CA8691
EXPIRATION DATE: FEBRUARY 28, 2021
Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.

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Licensee Information	
Name:	E SCIENCES, INCORPORATED (Primary Name)
Main Address:	34 EAST PINE STREET ORLANDO Florida 32801
County:	ORANGE
License Mailing:	
LicenseLocation:	

License Information	
License Type:	Geology Business Information
Rank:	Business Info
License Number:	
Status:	Current
Licensure Date:	11/22/2002
Expires:	

The state does not appear to be issuing copies of E Sciences PG license. Please find a copy of our active status from the Florida DBPR Online license portal for the E Sciences Geology License.

State of Florida
Department of State

I certify from the records of this office that E SCIENCES, INCORPORATED is a corporation organized under the laws of the State of Florida, filed on August 29, 2000.

The document number of this corporation is P00000081584.

I further certify that said corporation has paid all fees due this office through December 31, 2020, that its most recent annual report/uniform business report was filed on January 6, 2020, and that its status is active.

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

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Sixth day of January, 2020

GREAT SEAL OF THE STATE OF FLORIDA
IN GOD WE TRUST

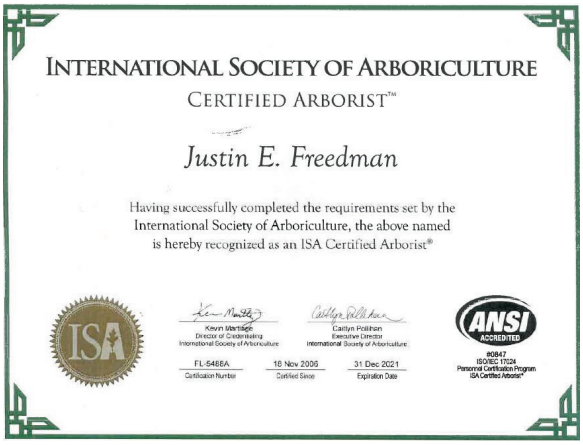
Secretary of State

Tracking Number: 1346725781CC

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

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

Justin Freedman, MS



INTERNATIONAL SOCIETY OF ARBORICULTURE
CERTIFIED ARBORIST™

Justin E. Freedman

Having successfully completed the requirements set by the International Society of Arboriculture, the above named is hereby recognized as an ISA Certified Arborist®

ISA

Kevin Martsolf
Director of Credentialing
International Society of Arboriculture

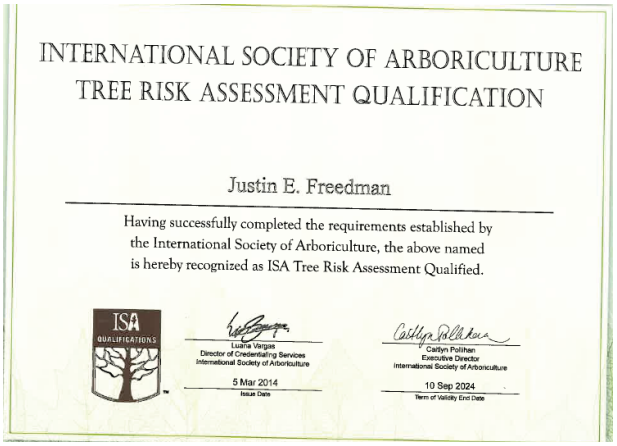
Caitlyn Pollihan
Executive Director
International Society of Arboriculture

FL-5466A
Certification Number

16 Nov 2006
Certified Since

31 Dec 2021
Expiration Date

ANSI ACCREDITED
#0847
ISO/IEC 17024
Personnel Certification Program
ISA Certified Arborist®



INTERNATIONAL SOCIETY OF ARBORICULTURE
TREE RISK ASSESSMENT QUALIFICATION

Justin E. Freedman

Having successfully completed the requirements established by the International Society of Arboriculture, the above named is hereby recognized as ISA Tree Risk Assessment Qualified.

ISA QUALIFICATIONS

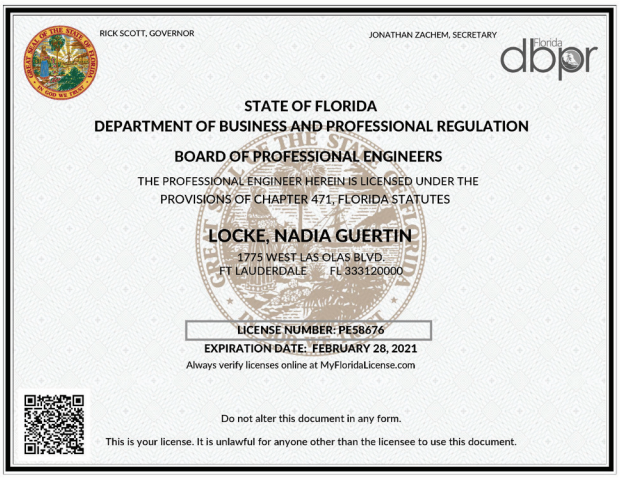
Luana Vargas
Director of Credentialing Services
International Society of Arboriculture

5 Mar 2014
Issue Date

Caitlyn Pollihan
Executive Director
International Society of Arboriculture

10 Sep 2024
Term of Validity End Date

Nadia Locke, PE, LEED AP



RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY

Florida dbpr

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

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

LOCKE, NADIA GUERTIN
1775 WEST LAS OLAS BLVD.
FT LAUDERDALE FL 333120000

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LEED AP ND

10674023-AP-ND
CREDENTIAL ID

11 JUN 2014
ISSUED

10 JUN 2022
VALID THROUGH

GREEN BUSINESS CERTIFICATION INC. CERTIFIES THAT

Nadia Locke

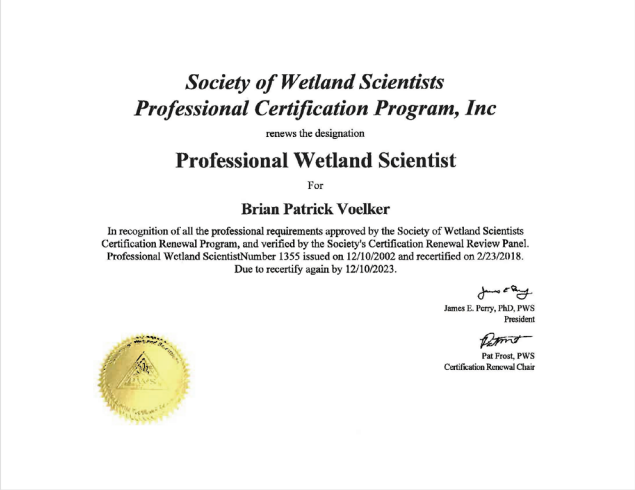
HAS ATTAINED THE DESIGNATION OF

LEED AP® Neighborhood Development

by demonstrating the knowledge and understanding of green building practices and principles needed to support the use of the LEED® green building program.

MAHESH RAMANUJAM
PRESIDENT & CEO, U.S. GREEN BUILDING COUNCIL
PRESIDENT & CEO, GREEN BUSINESS CERTIFICATION INC.

Brian Voelker, MS



Society of Wetland Scientists
Professional Certification Program, Inc

renews the designation

Professional Wetland Scientist

For

Brian Patrick Voelker

In recognition of all the professional requirements approved by the Society of Wetland Scientists Certification Renewal Program, and verified by the Society's Certification Renewal Review Panel. Professional Wetland ScientistNumber 1355 issued on 12/10/2002 and recertified on 2/23/2018. Due to recertify again by 12/10/2023.

James E. Perry, PhD, PWS
President

Pat Frost, PWS
Certification Renewal Chair

INTERNATIONAL SOCIETY OF ARBORICULTURE

CERTIFIED ARBORIST™

Brian Voelker

Having successfully completed the requirements set by the International Society of Arboriculture, the above named is hereby recognized as an ISA Certified Arborist®

Kevin Martigan
Director of Credentialing
International Society of Arboriculture

Caitlyn Pollihan
Executive Director
International Society of Arboriculture

FL-5378A — Certification Number
28 Jan 2006 — Certified Since
30 Jun 2021 — Expiration Date

ANSI ACCREDITED
#0847
ISO/IEC 17024
Personnel Certification Program
ISA Certified Arborist®

UNITED STATES OF AMERICA

DEPARTMENT OF TRANSPORTATION • FEDERAL AVIATION ADMINISTRATION

IV NAME
BRIAN PATRICK VOELKER

V ADDRESS 261 ASPEN WAY
DAVIE FL 33325-8732

VI NATIONALITY USA — SEX — HEIGHT — WEIGHT — HAIR — EYES
M — 130 — BALD — BROWN

VII DATE OF BIRTH 29 JUN 1974

IX HAS BEEN FOUND TO BE PROPERLY QUALIFIED TO EXERCISE THE PRIVILEGES OF

I REMOTE PILOT

4 CERTIFICATE NUMBER 4263470

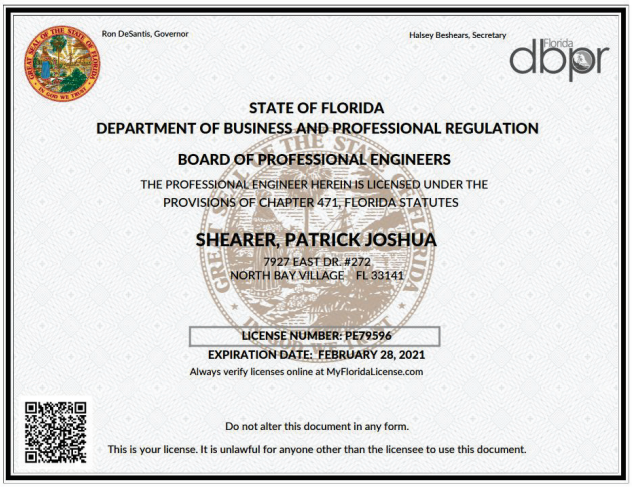
3 DATE OF ISSUE 29 APR 2014

XII

VIII ACTING ADMINISTRATOR

U S A

Patrick Shearer, PE



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Halsey Beshears, Secretary

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SHEARER, PATRICK JOSHUA

7927 EAST DR. #272
NORTH BAY VILLAGE, FL 33141

LICENSE NUMBER: PE79596
EXPIRATION DATE: FEBRUARY 28, 2021

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SF 330 Part I and Part II

E Sciences SF 330 information is provided on the following pages.

ARCHITECT – ENGINEER QUALIFICATIONS

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION *(City and State)*
Continuing Professional Consulting Services (CCNA)

2. PUBLIC NOTICE DATE	3. SOLICITATION OR PROJECT NUMBER
July 8, 2020	Request for Qualifications No. 20-07-01

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE
Justin Freedman, Project Manager

5. NAME OF FIRM
E Sciences, Incorporated

6. TELEPHONE NUMBER	7. FAX NUMBER	8. E-MAIL ADDRESS
(786) 517.2632	(305) 397-1556	jfreedman@esciencesinc.com

C. PROPOSED TEAM

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

	(Check) PRIME	(Check) JV PARTNER	(Check) SUBCON-TRACTOR	9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
a.	X			E Sciences, Incorporated ☑ CHECK IF BRANCH OFFICE	1021 Ives Dairy Road, Suite 216 Miami, Florida 33179	PRIME
b.				☐ CHECK IF BRANCH OFFICE		
c.				☐ CHECK IF BRANCH OFFICE		
d.				☐ CHECK IF BRANCH OFFICE		
e.				☐ CHECK IF BRANCH OFFICE		
f.				☐ CHECK IF BRANCH OFFICE		
g.				☐ CHECK IF BRANCH OFFICE		
h.				☐ CHECK IF BRANCH OFFICE		

D. ORGANIZATIONAL CHART OF PROPOSED TEAM ☐ *(Attached)*

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

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Justin Freedman	Project Manager / Senior Scientist	a. TOTAL: 18	b. WITH CURRENT FIRM: 13

15. FIRM NAME AND LOCATION *(City and State)*
E Sciences, Incorporated, Miami, Florida

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
M.S., Marine Biology B.A., Biology	N/A

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Certified Arborist, FL 5488A; Tree Risk Assessment Qualification; FDEP Certified Erosion and Sediment Control Inspector and Instructor; PADI Advanced Open Water, Enriched Air Certified Diver; Certified Green Industries Best Management Practices Instructor. Memberships: Florida Chapter of the ISA; Florida Urban Forestry Council; Landscape Inspectors Association of Florida; South Florida Association of Environmental Professionals (SFAEP); Southeast Florida Coral Reef Initiative

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
Continuing Contract for General Environmental Services, Fort Lauderdale, Broward County, Florida	PROFESSIONAL SERVICES: 2007 – On-going	CONSTRUCTION (If applicable): N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☑ Check if project performed with current firm

Fort Lauderdale Executive Airport Burrowing Owl Survey: Mr. Freedman conducted burrowing owl surveys and prepared the permit application. Benthic Surveys for Sylvan Lake Canal & Seminole River Canal: E Sciences conducted benthic resources surveys to support dredging projects in two City-maintained waterways. E Sciences' biologists snorkeled each site to observe the presence of regulated benthic resources (i.e. seagrasses, corals, etc.). E Sciences' staff provided the City reports to accompany their permit applications. Mr. Freedman managed this project task. *Contract Budget/Fees: $593,822*

b.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
City of Miami Beach Environmental Engineering Continuing Services, Miami Beach, Miami-Dade County, Florida	PROFESSIONAL SERVICES: 2011 – 2015	CONSTRUCTION (If applicable): N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☑ Check if project performed with current firm

Groundwater Elevations Monitoring and Mapping Project (Sea Level Rise Study): The purpose of the study was to evaluate low lying areas vulnerable to sea level rise within the City based on the assumption that the groundwater levels under the City are tidally influenced and therefore flooding may also be influenced or exacerbated by tidal fluctuations. To accomplish this, the E Sciences team monitored groundwater elevations and other data over a period of seven months. The elevation data collected was used in conjunction with Light Detection and Ranging (LiDAR) topography and tidal data to model vulnerability to provide a basis for the City to determine stormwater priorities. Mr. Freedman assisted on the preparation of the report for the City and presented the findings of this study at the 2013 Annual SFAEP Symposium. Canopy Analysis: Mr. Freedman served as the senior scientist for this canopy analysis project for the City. Using i-Tree Canopy, he and his team estimated the canopy coverage for the City's urban forest, as well as percentage of available space remaining within the City for additional tree planting. He developed a one-page brochure for public education documenting the information from the study. Street Tree Inventory: Mr. Freedman was the senior scientist for two phases of street tree inventories for the City. The two phases encompassed the Normandy Shores and Normandy Isles neighborhoods. *Contract Budget/Fees: $415,857*

c.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
Continuing Contract for Environmental Engineering Services, Pompano Beach, Broward County, Florida	PROFESSIONAL SERVICES: 2010 – Ongoing	CONSTRUCTION (If applicable): N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☑ Check if project performed with current firm

Martin Luther King Boulevard NEPA Review: E Sciences prepared the Type I and Programmatic Categorical Exclusion Checklist and Memo for this streetscape improvement project between NW 31st Avenue and Powerline Road. This project is one segment of a planned, multi-city education corridor partially funded through the FDOT Local Agency Program (LAP). The environmental review included coordination with the State Historic Preservation Office regarding a potentially historic site and an inventory of community and cultural resources. Mr. Freedman assisted with the field review and coordination on this project. SW 36th Avenue Pedestrian Bridge Path LAP Project Design and Permitting: In addition to the work conducted under this Community Redevelopment Agency (CRA) contract, E Sciences assisted with the environmental permitting for a pedestrian path project for the City. Tasks included conducting field assessments of wetland and tree impacts, assisting with permit application packages and coordinating with the permitting agencies and FDOT. Mr. Freedman managed and provided coordination for this project task. *Contract Budget/Fees: $153,154*

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

d.

(1) TITLE AND LOCATION *(City and State)*
General Engineering Contract,
City of Doral, Miami-Dade County, Florida

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2017 – Ongoing	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☑ Check if project performed with current firm

E Sciences has provided a variety of consulting services to the City of Doral through their General Engineering Contract. Services have included grant writing, a city-wide tree inventory conducted in three phases, a city-wide planting plan, educational programing and materials related to tree care and an environmental sampling project conducted to investigate odor complaints. Mr. Freedman serves as the project manager and primary client contact for these projects. *Contract Budget/Fees: $171,969*

e.

(1) TITLE AND LOCATION *(City and State)*
Sullivan Park Expansion Project,
City of Deerfield Beach CRA, Broward County, Florida

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2013 – 2016	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☑ Check if project performed with current firm

The City of Deerfield Beach CRA received grant funding to improve its Sullivan Park property located on the Intracoastal Waterway. Improvements include upland features (i.e. new bathroom facilities, a splash park, landscaping, etc.) and in-water infrastructure including a dock for kayaking and paddle boarding and finger piers for boats. E Sciences was engaged by the project design firm to initially assist with the master plan and then to provide permitting support during design. E Sciences' services include conducting a benthic resource survey, coordinating with the permitting agencies and preparing permit applications. Mr. Freedman was the project manager for this project. *Project Budget/Fees: $41,833*

f.

(1) TITLE AND LOCATION *(City and State)*
Gilbert Samson Oceanfront Park Coastal Construction Control Line Permit,
City of Sunny Isles Beach, Broward County, Florida

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2014 – 2015	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☑ Check if project performed with current firm

The City is improving the Samson Oceanfront Park and hired a firm to design the improvements. E Sciences joined the team to provide the Coastal Construction Control Line permitting for the project. Tasks included conducting vegetative analysis and mapping for the site and preparing permit applications. Mr. Freedman serves as project manager. *Project Budget/Fees: $6,945*

g.

(1) TITLE AND LOCATION *(City and State)*
Historic Vizcaya Southern Lagoon & Northern Canal Tidal Swamp Landscape Environmental Restoration Plan, Miami, Miami-Dade County, Florida

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2012 – 2014	South Canal – 2014

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☑ Check if project performed with current firm

This project involved a multi-disciplinary landscape architecture and environmental restoration plan for the waterways and tidal pool within the museum's property, which balanced ecological function with creative landscape aesthetics, recreational functions and values, and improvements to water quality, and planting designs based on historic flora inventories, including mangroves, native hardwood hammock and coastal scrub species. Mr. Freedman served as the project manager for the construction administration portion of this project, including evaluating contractor qualifications and conducting compliance inspections. *Project Budget/Fees: $123,412*

h.

(1) TITLE AND LOCATION *(City and State)*
FDOT District Four Districtwide Environmental Services Contract
Broward, Palm Beach, Martin, St. Lucie and Indian River Counties

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2005 – 2010	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☑ Check if project performed with current firm

Mr. Freedman served three days a week as in-house environmental specialist in the FDOT District Four Planning and Environmental Management Office. Tasks included performing environmental phase reviews and preparing and reviewing NEPA documentation for over 70 roadway and bridge projects including field identification of listed species habitat, wetlands, historic resources, Section 4(f) and contaminated sites. *Contract Budget/Fees: $6,857,273*

i.

(1) TITLE AND LOCATION *(City and State)*
River Oaks Preserve Stormwater Park
City of Fort Lauderdale, Florida

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2011 – 2012	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☑ Check if project performed with current firm

The purpose of the project was to create a passive stormwater park with wetland features to relieve flooding in the River Oaks neighborhood and provide recreational use for local residents. Mr. Freedman provided permitting support for this project. *Project Budget/Fees: $29,757*

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Nadia G. Locke, PE, LEED AP	QA/QC / Assistant Project Manager / Senior Engineer	a. TOTAL: 32	b. WITH CURRENT FIRM: 18

15. FIRM NAME AND LOCATION *(City and State)*
E Sciences, Incorporated, Fort Lauderdale, Florida

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
B.S., Materials Science and Engineering	Professional Engineer: FL-58676

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
LEED AP Neighborhood Development; Certified FDEP Stormwater, Erosion and Sedimentation Control Inspector #3263 and Instructor #130 OSHA 40 Hour HAZWOPER / 8 Hour Site Supervisor; NAUI/PADI Advanced Open Water Diver. Memberships: National Council of Engineers Examiners; Florida Brownfields Association; Florida Bar Environmental Law and Land Use Section; Smart Growth Partnership

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Continuing Contract for General Environmental Services, City of Fort Lauderdale, Broward County, Florida	2007 – Ongoing	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Ms. Locke serves as the contract manager for the consulting contract to conduct miscellaneous environmental services for the City of Fort Lauderdale. Services conducted include emergency response to contamination identification during construction of a fire station; environmental reviews to comply with U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant requirements; Phase I and Phase II Environmental Site Assessments (ESAs); Opinion of post landfill closure costs; contamination assessment and remediation design; asbestos and indoor air quality surveys; development of construction documents for working in contaminated areas; endangered species surveys, permitting and relocation; benthic surveys, NPDES (stormwater permit) support; and grant support. *Contract Budget/Fees: $593,822*

b.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Environmental Engineering Continuing Services, City of Miami Beach, Miami-Dade County, Florida	2011 – Ongoing	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Ms. Locke is the contract manager for a consulting contract to conduct miscellaneous environmental services for the City of Miami Beach. Services conducted to date include Groundwater Elevations Monitoring and Mapping Project (Sea Level Rise Study), preparation of spill prevention control and countermeasure plans for 12 facilities including pump stations, fire stations, public works yard, Phase I and II ESAs for the area of the Miami Beach Convention Center, canoe/kayak launch/seawall rehabilitation permitting, bay walk permitting, tree canopy analysis, groundwater monitoring at golf courses and the fleet management facility and assessment and regulatory closure of the green waste facility. *Contract Budget/Fees: $415,857*

c.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
General Environmental Engineering Services, City of North Miami Beach, Miami-Dade County, Florida	2009 – Ongoing	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Ms. Locke is the contract manager for E Sciences ongoing environmental engineering consulting contract with the City of North Miami Beach. Taylor Park was slated for redevelopment when FDEP had their Brownfields contractor conduct a Brownfields Assessment of the site. The assessment revealed the presence of metals and petroleum constituents in the soil and metals in the groundwater. Assessment activities revealed the presence of buried solid waste on most of the 21.8-acre property. Since that time, regulatory issues restricted and complicated redevelopment efforts for the property. Ms. Locke was the engineer of record for the assessment and conceptual remediation design for the property. The remediation planning was closely coordinated with the community desires, the City's needs and the park master planners to ensure a solution to remedy the environmental issues in conjunction with all of the stakeholder needs. The County is now implementing the cleanup. Ms. Locke also provided project management for Phase I environmental site assessments under this contract and senior support for E Sciences' efforts to prepare a stormwater master plan, digitize their stormwater atlases and develop a stormwater management manual for staff to follow to comply with NPDES permitting requirements. *Contract Budget/Fees: $209,077*

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

19. RELEVANT PROJECTS

d.

(1) TITLE AND LOCATION *(City and State)*
Beach Corridor Rapid Transit Project,
Miami-Dade County, Florida

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 5/2017 – Ongoing
CONSTRUCTION (If applicable): N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☑ Check if project performed with current firm

Ms. Locke is the project manager for the environmental documentation to satisfy the NEPA requirements for federal funding. This project is an approximately 13-mile corridor that extends from the Miami Design District to Government Center, eastbound along I-395 to Miami Beach and north to the Miami Beach Convention Center. Several alternatives are being evaluated to provide a rapid transit solution. Funding agencies include the FDOT, Miami-Dade County and the Cities of Miami and Miami. E Sciences is now expediting permitting for the construction of the transitway across the bay. *Budget/Fees: $630,480*

e.

(1) TITLE AND LOCATION *(City and State)*
Pompano Beach CRA Continuing Contract for Environmental Engineering Services, Pompano Beach, Broward County, Florida

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2010 – Ongoing
CONSTRUCTION (If applicable): N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☑ Check if project performed with current firm

Ms. Locke is the contract manager for E Sciences' continuing services contract with the Pompano Beach CRA. Through this contract, E Sciences has conducted Phase I and II ESAs for several parcels in preparation for the CRA's redevelopment planning. Ms. Locke is working with the CRA to consider options on how to safely manage the identified contamination during the planning stages. Several of these properties are located along Martin Luther King, Jr. Boulevard, West Atlantic Avenue and North Dixie Highway. Community Gardens: E Sciences recently evaluated the suitability of three vacant, CRA-owned parcels for use as community gardens for the local school. The community gardens will be used to teach children about agriculture and healthy food choices. Vegetables grown on these lots will be used to provide fresh vegetables for families and children in the community. Broward Community & Family Health Center: E Sciences prepared Environmental Information and Documentation to satisfy Health Resources and Services Administration grant application requirements. The project was conducted to support the potential redevelopment of CRA parcels with a much-needed community health care facility. The documentation was required for the grant applicant to comply with NEPA. *Contract Budget/Fees: $153,154*

f.

1) TITLE AND LOCATION *(City and State)*
Wynwood NW 3rd Avenue Woonerf,
City of Miami, Miami-Dade County, Florida

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2018 – Ongoing
CONSTRUCTION (If applicable): N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☑ Check if project performed with current firm

This project involves the conversion of four blocks of urban hardscape in the heart of the Wynwood art district from NW 25th street to NW 29th street into a "woonerf" which is a Dutch-inspired, pedestrian friendly "living" complete street incorporating green design elements, ecological benefits, and pedestrian safety. E Sciences is providing stormwater engineering design and environmental specialist services including innovative stormwater retrofits involving Low Impact Development design for this unique, green streetscape project. Services will include environmental site analysis, canopy cover and tree evaluation including evaluation of heat island affect and considerations, energy resource considerations, vulnerabilities assessment, and community outreach and site design related to the stormwater and environmental aspects of the project. This project will feature stormwater designs conveying green infrastructure such as permeable pavement with underground storage and bio-retention planting areas; engineering; art; and climate change concepts through public education and outreach. This project will be used to demonstrate that stormwater management can also be displayed as environmental art. Ms. Locke is providing quality assurance oversight on this project. *Budget/Fees: $21,699*

g.

(1) TITLE AND LOCATION *(City and State)*
Fleet Management Seawall Rehabilitation for Resiliency,
City of Miami Beach, Miami-Dade County, Florida

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 5/2017 – 1/2018
CONSTRUCTION (If applicable): N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☑ Check if project performed with current firm

E Sciences provided environmental support as a subconsultant on this bulkhead design and repair project located for a Miami Beach Fleet Management Property within the Port of Miami, which is located within Biscayne Bay. This project was permitted twice. The initial permits were obtained to rehabilitate the dilapidated seawall; and the second set of permits reflected a new design to account for the need to adapt for the effects of sea level rise. Ms. Locke provided support and leadership on this project and assisted with the preparation of environmental permit applications to the Miami-Dade Department of Environmental Management, FDEP and USACE. She was also the project manager for the second permitting process that was conducted to account for the need to raise the elevation in anticipation of climate change. *Budget/Fees: $23,277*

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Brian Voelker, MS	Senior Scientist / Key Personnel	a. TOTAL: 23	b. WITH CURRENT FIRM: 7

15. FIRM NAME AND LOCATION *(City and State)*
E Sciences, Incorporated, Fort Lauderdale, Florida

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
MS, Coastal Zone Management / Marine Biology BS, Environmental Studies	N/A

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Professional Wetland Scientist; PADI Certified Rescue Diver; Certified Survey Technician Level I; Professional Wetland Scientist; Certified Arborist FL-5378A; Tree Risk Assessment Qualification; Certified FDEP Stormwater Erosion and Sedimentation Control Inspector #29437

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
General Engineering Contract, City of Doral, Miami-Dade County, Florida	2017 – Ongoing	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☑ Check if project performed with current firm

E Sciences conducted a city-wide tree inventory that included right-of-way street trees and trees located in parks and other city-owned properties. Based on the tree inventory, E Sciences identified and prioritized street tree planting locations throughout the City. Mr. Voelker performed the GPS inventory, prepared GIS tree databases and summary reports of general tree conditions and attended meetings with City staff. *Contract Budget/Fees: $171,969*

b.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Environmental Engineering Continuing Services, City of Miami Beach, Miami-Dade County, Florida	2011 – Ongoing	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Tree Inventory and Arborist Assessment: Mr. Voelker performed a GPS inventory and condition assessment of all trees within City roadway and right-of-way areas. The assessments include health and structure evaluations, identification of utility conflicts, pruning recommendations, and general risk evaluations. The resulting GPS data will be used to generate a GIS tree database which the City can then be used as a tool for managing urban forest resources in this particular community. The results of this analysis may then be used to develop the framework for a City-wide GIS tree database. *Contract Budget/Fees: $415,857*

c.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Continuing Contract for General Environmental Services, City of Fort Lauderdale, Broward County, Florida	2007 – Ongoing	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Mr. Voelker participates in ecological and environmental projects under this contract, such as the Benthic Surveys for Sylvan Lake Canal & Seminole River Canal: E Sciences conducted benthic resources surveys to support dredging projects in two City-maintained waterways. Mr. Voelker snorkeled each site to observe the presence of regulated benthic resources (i.e. seagrasses, corals, etc.). He assisted with the report needed for the permit applications. *Contract Budget/Fees: $593,822*

d.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Historic Vizcaya Southern Lagoon & Northern Canal Tidal Swamp Landscape Environmental Restoration Plan, Miami, Miami-Dade County, Florida	2012 – 2014	South Canal – 2014

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☑ Check if project performed with current firm

This project involved a multi-disciplinary landscape architecture and environmental restoration plan for the waterways and tidal pool within the museum's property, which balanced ecological function with creative landscape aesthetics, recreational functions and values, and improvements to water quality, and planting designs based on historic flora inventories, including mangroves, native hardwood hammock and coastal scrub species. Mr. Voelker was a project scientist for this project. *Project Budget/Fees: $123,412*

e.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Deep Dredge Environmental Monitoring, Miami-Dade County, Florida	2014 – Ongoing	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☑ Check if project performed with current firm

PortMiami relocated Acropora cervicornis corals in anticipation of the proposed deep dredging project that will make the port compatible with Panamax cargo ships that are anticipated to utilize the port following the widening of the Panama Canal. E Sciences is providing scientific divers to monitoring the success of the relocated corals at 6, 12- and 24-months following relocation. Mr. Voelker is providing scientific diving services for this project. *Project Budget/Fees: $138,743*

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

19. RELEVANT PROJECTS

f.

(1) TITLE AND LOCATION *(City and State)*
Southwest 137th Avenue,
Miami-Dade County, Florida

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2012
CONSTRUCTION (If applicable): N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☑ Check if project performed with current firm

The proposed project is the expansion of SW 137th Avenue from SW 200th Street to US-1. Mr. Voelker assisted with field assessments of wetlands/surface waters and assisted with a GPS tree inventory throughout the ±42-acre project corridor. He also assisted with the preparation of regulatory agency permit applications in association with surface water impacts and tree resource impacts associated with roadway development. *Project Budget/Fees: $50,525*

g.

(1) TITLE AND LOCATION *(City and State)*
Pennsuco Littoral Shelf Restoration Year Two Maintenance, City of Medley,
Miami-Dade County, Florida

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2012 – Ongoing
CONSTRUCTION (If applicable): N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☑ Check if project performed with current firm

A Miami-Dade County DERM permit was issued to facilitate the 50-year life of mining activities under the Lake Belt Plan. E Sciences assisted Titan with restoring these littoral marsh areas to be in compliance with the permit. Currently, Titan America desires to obtain the Wildlife at Work certification from the Wildlife Habitat Council. E Sciences has been retained to demonstrate that the littoral shelf restoration is contributing to wildlife habitat usage. E Sciences will monitor the site to evaluate the prevalence of amphibians, reptiles, fish and invertebrates, and collect photo-documentation, to complete the application. Mr. Voelker assisted with the monitoring services required for this project. *Project Budget/Fees: $126,000*

h.

(1) TITLE AND LOCATION *(City and State)*
Markham Park Target Range,
Broward County, Florida

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2012 – Ongoing
CONSTRUCTION (If applicable): N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☑ Check if project performed with current firm

The proposed project is to modify the stormwater management system to provide storage capacity for a 15.04-acre target/skeet and rifle range area within a 665-acre recreational park. The project proposes clearing, filling and grading a 12.6-acre area to an elevation ranging from 6.5 to 7 feet National Geodetic Vertical Datum as part of lead shot and clay target cleanup operations. The project will impact approximately 4.22 acres of wetlands and approximately 15 acres of wetlands will be enhanced within the Park to offset the wetland impacts. Mr. Voelker is assisting with functional assessments, design and permitting for the 15-acre wetland enhancement area. *Project Budget/Fees: $87,093*

i.

(1) TITLE AND LOCATION *(City and State)*
Venetian Islands Infrastructure Improvement Arborist Services,
City of Miami Beach, Miami-Dade County, Florida

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2013 – 2014
CONSTRUCTION (If applicable): N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☑ Check if project performed with current firm

This project consisted of reviewing an existing tree survey and proposed infrastructure plans to identify potential conflicts between existing trees and proposed infrastructure. E Sciences then performed field visits to visually inspect and mark potential conflict trees. The field visits also involved coordination with the contractor to determine the limits of construction and verify if particular trees would be impacted based upon proposed construction methods. Pending these field visits, E Sciences generated a final plan set mark up and associated tree table identifying conflict trees. *Project Budget/Fees: $8,500*

j.

(1) TITLE AND LOCATION *(City and State)*
Homestead Air Reserve Base (HARB) Fish Study / Twin Lake / Phantom Lake,
Miami-Dade County, Florida

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2012 – 2014
CONSTRUCTION (If applicable): N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☑ Check if project performed with current firm

HARB encompasses a total of 1,943 acres. The base has an extensive fresh-water canal drainage system (total of approximately 80,000 linear feet) consisting of a series of drainage ditches and canals within and along the base boundary. Other aquatic environments on the base include three artificial lakes and a stormwater reservoir. In addition to the lakes and canals, there are 232 acres of previously delineated jurisdictional wetlands present within the boundaries of HARB, the majority of which are located in and around the airfield. E Sciences is contracted to perform three tasks as part of this project: 1) Fish Population/Distribution Study; 2) Twin Lakes Feasibility Study; 3) Phantom Lake Improvement and Constraints Evaluation Study. We will evaluate the distributions and populations of non-native and native fish species within the aforementioned water bodies to give a baseline report of current ecological conditions. We will also evaluate the potential to enhance and maintain the natural communities surrounding and within the Twin Lakes by supporting native fish and wildlife species while at the same time not increasing the potential for bird strike hazards. Mr. Voelker assists with the evaluations and reporting of these services. *Project Budget/Fees: $151,849.00*

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Patrick Shearer, PE	Senior Engineer / Key Personnel	a. TOTAL: 12	b. WITH CURRENT FIRM: 4

15. FIRM NAME AND LOCATION *(City and State)*
E Sciences, Incorporated, Fort Lauderdale, Florida

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
B.S., Civil Engineering – Environmental Option; Natural Resources and Environmental Science / Integrated Stream and Stormwater Wetland Design in Urban Settings Class	Florida Professional Engineer; License No. 79596

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
FDEP qualified Stormwater Management Inspector #34890; American Society of Civil Engineers - Member, August 2003 – Present; ASCE Environmental and Water Resources Institute (EWRI), Miami-Dade Branch, Board of Directors, since 2016; American Water Resources Association, Member since 2017

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*
Melbourne Central Indian River Lagoon Water Quality Improvement Project Study, City of Melbourne, Brevard County, Florida

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2013 – 2017	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☑ Check if project performed with current firm

Mr. Shearer was the lead engineer responsible for project management for a study focused on identifying and evaluating water quality stormwater retrofit projects to address the Central Indian River Lagoon (CIRL) BMAP and develop a comprehensive watershed management plan for the CIRL basin within the City. He managed the project team to evaluate 20+ potential watershed retrofit projects to improve water quality. Mr. Shearer and the team developed conceptual stormwater retrofit plans for each project location. Additionally, he and the project team evaluated the function and effectiveness of existing stormwater structural and non-structural controls to make recommendations for improvements to water quality. Pollutant load reduction modeling and calculations were performed for each proposed project location, and planning level cost estimates were developed. The projects were ranked and prioritized based on several factors, including their cost effectiveness in pollutant load reduction, feasibility, and maintenance considerations. Stormwater projects included wet and dry pond retrofits, nutrient separating baffle boxes, vegetated filter strips, ditch and canal retrofits, off-line wet retention, algal turf scrubbers, bio-swales, biosorption activated media (BAM), regenerative stormwater conveyance channels, living shorelines and oyster restoration. The deliverable report summarizes the evaluation of these stormwater retrofits, prioritizes projects with respect to cost-effectiveness, and will assist the City in making future stormwater retrofits to address the CIRL BMAP. *Project Budget/Fees: $59,880*

b.

(1) TITLE AND LOCATION *(City and State)*
Autumn Woods Stormwater Quality Retrofit CEI Services, City of Melbourne, Brevard County, Florida

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2017	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☑ Check if project performed with current firm

Mr. Shearer was the engineer of record responsible for construction oversight services for stormwater retrofit improvements including the construction of the Autumn Woods wet detention pond. The pond was sited in a location that intersected an untreated stormwater conveyance system to the Eau Gallie River and restored treatment to areas which, prior to the project, were served by a dysfunctional treatment system. E Sciences developed construction plans and specifications, an engineer's cost estimate, obtained regulatory approvals, and secured all necessary permits from the St. Johns Water Management District and USACE for work within and impacts to Waters of the United States. The project site, which lies within the North Indian River Lagoon portion of the City's Municipal Separate Storm Sewer System (MS4), improved water quality treatment by reducing the stormwater pollutants for the drainage basin by 315 lb/yr of Total Nitrogen and 135 lb/yr of Total Phosphorus. Mr. Shearer was responsible for CEI services for this project that involved site observation inspections during various stages of construction, inspection documentation, addressing requests for information, review and approval of shop drawings, evaluation of deviations from approved plans, review and approval of pay applications, construction completion certification, and development and submittal of Record Drawings. E Sciences provided grant support services to the City for this project which included assistance with, preparation of, submittal, and award for a FY2015 Section 319 Grant for the project for $518,750 (~60% of total construction cost). Construction of this project was completed in July 2017. *Project Budget/Fees: $12,197*

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

19. RELEVANT PROJECTS

c.

(1) TITLE AND LOCATION *(City and State)*
Bell Avenue Stormwater Improvements CEI Services,
City of Melbourne, Brevard County, Florida

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2017	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☑ Check if project performed with current firm

Mr. Shearer was the engineer of record responsible for construction oversight services for stormwater retrofit improvements including the construction of two 2nd generation nutrient separating baffle boxes in line with two parallel 48" pipes prior to discharge into a stormwater drainage ditch. E Sciences developed construction plans and specifications, including an engineer's cost estimate and other information necessary for bid documents for the proposed improvements. The installation required an open cut into the existing pipes so that the structures could be inserted into place. The project site lies within the North Central Indian River Lagoon portion of the City's MS4 and this project improved water quality treatment by reducing the stormwater pollutants for the drainage basin by 358 lb/yr of Total Nitrogen and 72 lb/yr of Total Phosphorus. Additionally, one of the baffle boxes contains an upflow filter with BAM for enhanced nutrient removal, and the performance of this box is being monitored and compared against the box without BAM. Mr. Shearer was responsible for CEI services for this project which involved performing and coordinating site inspections during all stages of construction, inspection documentation, addressing requests for information, review and approval of shop drawings, evaluation of deviations from approved plans, claims review, review and approval of pay applications, construction completion certification, and development and submittal of Record Drawings. Construction of this project was completed in May 2017. *Project Budget/Fees: $24,861*

d.

(1) TITLE AND LOCATION *(City and State)*
North and South Garfield Stormwater Improvements and CEI Services,
City of Melbourne, Brevard County, Florida

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2017	5/2017

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☑ Check if project performed with current firm

Mr. Shearer was the engineer of record responsible for construction oversight services for stormwater retrofit improvements including the construction of two second-generation nutrient separating baffle boxes to replace two underperforming dry detention ponds. The second-generation nutrient baffle boxes are designed to remove sediment, foliage, and litter with minimal hydraulic head loss. E Sciences developed construction plans and specifications, including an engineer's cost estimate and other information necessary for bid documents for the proposed improvements. This project is located in a high-density residential neighborhood, and the outfall for this project flows directly into an impaired waterbody. The project site lies within the North Indian River Lagoon portion of the City's MS4 and the project improved water quality treatment by reducing the stormwater pollutants for the drainage basin by 221 lb/yr of Total Nitrogen and 44 lb/yr of Total Phosphorus. Mr. Shearer was also responsible for CEI services for this project that involved performing and coordinating site inspections during all stages of construction, inspection documentation, addressing requests for information, review and approval of shop drawings, evaluation of deviations from approved plans, claims review, review and approval of pay applications, construction completion certification, and development and submittal of Record Drawings. Construction of this project was completed in May 2017. *Project Budget/Fees: $69,452*

e.

(1) TITLE AND LOCATION *(City and State)*
Wynwood NW 3rd Avenue Woonerf,
City of Miami, Miami-Dade County, Florida

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
7/2018 – Ongoing	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☑ Check if project performed with current firm

This project involves the conversion of four blocks of urban hardscape in the heart of the Wynwood art district from NW 25th street to NW 29th street into a "woonerf" which is a Dutch-inspired, pedestrian friendly "living" complete street incorporating green design elements, ecological benefits, and pedestrian safety. Mr. Shearer is the project manager and project engineer providing stormwater engineering design and environmental specialist services including innovative stormwater retrofits involving Low Impact Development design for this unique, green streetscape project. He managed the environmental site analysis and vulnerabilities and resiliency assessment which included heat island effect considerations, energy resource considerations, stormwater and green infrastructure assessment, community outreach and site design related to the stormwater and environmental aspects of the project. The project is a pilot project designed to showcase and scale-up resiliency and adaptation design measures, and a variety of climate-change oriented sensors, metrics and grant funding approaches. This project features stormwater design conveying green infrastructure such as permeable pavement with underground storage and bio-retention planting areas; tree planter retention areas with structural soils; bio-sorption activated media; bioswales; cisterns; above-ground rain tanks; solar power; stormwater engineering art; and climate change concepts through public education and outreach. *Project Budget/Fees: $21,699*

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)	20. EXAMPLE PROJECT KEY NUMBER 1

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Tree Inventory City of Coconut Creek, Florida	2014	N/A

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Coconut Creek	Sharon Vollmer	(954) 956 1517

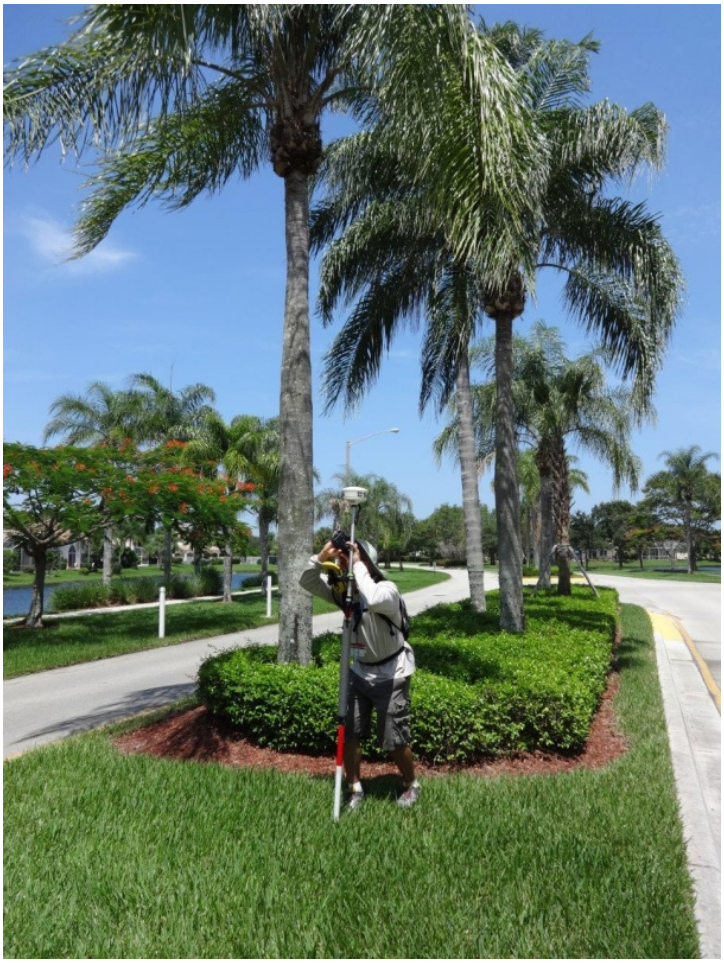
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost.)*

The City of Coconut Creek was awarded a Florida Forest Service Urban and Community Forestry Grant to conduct a tree inventory for a selection of the City's neighborhoods. E Sciences submitted the winning proposal for the project.

For trees located within each neighborhood, E Sciences' staff collected location information using sub-meter GPS receivers. Additional information collected for each tree includes the species (common and scientific name), diameter at breast height and a condition rating.

The purpose of the inventory was to update the City's understanding of tree diversity within each neighborhood and to plan future planting projects based on that information.

Project Budget/Fees: $20,500



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME E Sciences, Incorporated	(2) FIRM LOCATION *(City and State)* Fort Lauderdale/Miami	(3) ROLE Prime
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)	20. EXAMPLE PROJECT KEY NUMBER 2

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
General Environmental Engineering Consulting Services City of Fort Lauderdale, Broward County, Florida	2011 – Ongoing	N/A

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Fort Lauderdale	Mr. Larry Teich	(954) 828-7844

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

E Sciences was awarded a contract with the City of Fort Lauderdale to provide ongoing environmental engineering support during two separate consultant selection processes. The scope of the contract is broad and has provided us with a wide range of opportunities to support the City. The following summarizes some of the projects completed for the City:

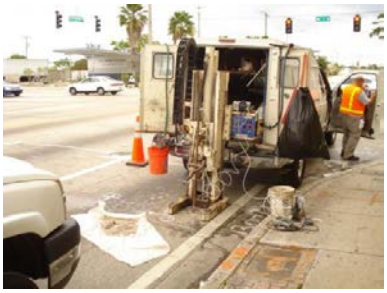
NPDES Permitting Support: NPDES Permitting Support: E Sciences has worked with the City to prepare their Total Maximum Daily Load (TMDL) Prioritization Plan and Assessment Program as required to be submitted within Year 1 of the City's NPDES MS4 permit. During Year 2 of the permit, E Sciences began preparing pollutant load analysis and reviewing monitoring data collected by the County to help the City understand the effects of their stormwater system improvements on neighboring waterbodies, as well as to comply with the permit. In addition, E Sciences is preparing the City's Bacteria Pollution Control Plan (BPCP), working with multiple stakeholders in the area for effective reporting and cost savings, which will be submitted with the City's Year 3 annual report. E Sciences continues to provide ongoing NPDES support as needed to the City including review annual report and Standard Operating Procedures (SOPs) to ensure compliance with permit requirements.

Bonnet House Greenway: E Sciences was engaged by the City to conduct an environmental evaluation for proposed greenway between Birch State Park through the Bonnet House Museum and Gardens property (Bonnet House) to North Birch Road to the South. The project objectives are providing connectivity from Sunrise Boulevard and Birch State Park to the island community located south of the Bonnet House property; immersing the user in the mangrove forest; maintaining a distance between the user and the Bonnet House activities and not interfering with the Bonnet House parking or landscaping. This evaluation was conducted to support a grant application for assistance under the National Park Service Rivers, Trails, and Conservation Assistance Program. E Sciences was requested to seek ways to minimize impacts to environmental resources that could be incorporated into the design of the greenway. E Sciences proposed an alternative greenway layout that would reduce mangrove impacts by shifting the greenway into disturbed uplands areas towards the south end of the greenway. This alternative layout would also result in decreased impacts to landscape trees and preserve parking areas for the users of the Bonnet House property. Design measures, including an elevated boardwalk and permeable pavement, could be implemented to further reduce impacts to natural resources.

Environmental Assessment – Grace Community Development: E Sciences was contracted to perform a HUD Environmental Review for an industrial property that was proposed to be redeveloped as a community center. The Environmental Review consisted of the Statutory Worksheet for Categorically Excluded projects. The preparation of this worksheet requires coordination with environmental regulatory agencies, including the State Historic Preservation Office, the FDEP, and the U.S. Environmental Protection Agency (EPA). The Statutory Worksheet includes a Determination section with three options. If the project does not require mitigation for compliance with listed statutes or authorities, nor require formal permit or license, then it converts to Exempt status. Based on the proposed change in use of the property, it was determined that the project did qualify as a Categorical Exclusion and required a higher level of review. Therefore, E Sciences completed an Environmental Assessment and completion of the HUD's NEPA Environmental Assessment Checklist, including an alternatives analysis, and the Environmental Assessment Worksheet to comply with federal laws and authorities.

Benthic Survey for Isle of Palms Seawall 15 Replacement: E Sciences provided support to the City in anticipation of replacement of 900 feet of seawall along the west side of Isle of Palms Drive. Sea level rise has caused surface waters to overtop this seawall and flood adjacent land and roads. The purpose of the project is to raise the height of the seawall and protect the shoreline from the effects of climate change. The City engaged E Sciences to conduct a benthic survey to support the design and permitting. Seagrasses were identified and data regarding on seagrass bed size, density, incidental species observed, and substrate conditions were recorded and documented. E Sciences collaborated with the design engineers to assist them in obtaining the regulatory agency permits and by the City to inform the construction procurement process. The report was delivered one week ahead of the contract schedule and under budget.

Sistrunk Boulevard: E Sciences was hired by the City to conduct soil and groundwater sampling along Sistrunk Boulevard from I-95 to Andrews Avenue. The project was conducted in order to support the CRA with implementing a streetscape, drainage and roadway enhancement project. E Sciences conducted soil and groundwater sampling at 36 locations to evaluate potential impacts to construction that may arise due to known contaminated sites historically located along the corridor. Potential sites of concern included historic dry cleaners, gasoline stations, junk yards and an incinerator ash landfill.



Prior to implementation, E Sciences worked with the FDOT (who was providing funding) to determine a scope of analytical services. E Sciences reconciled the proposed subsurface structure locations (drainage structures, light fixtures, etc.) identified on construction plan sheets with the existing corridor conditions and proximity to potentially contaminated areas. Due to the high number of utilities anticipated to be located in close proximity to the drilling locations, E Sciences engaged a private utility location contractor to locate underground utilities using ground penetrating radar and electromagnetic radiation surveys, in addition to review of City plans and coordination with Sunshine One Call. A Maintenance of Traffic (MOT) plan was prepared and submitted to the City prior to field activities.

In addition to an assessment report, E Sciences provided general notes and bidding specifications language outlining requirements for managing contaminated soils and groundwater to be incorporated into the bidding and contract documents for this project. During construction, we assisted the City in working with the contractor to minimize impacts to construction and keep the project moving forward.

This “stimulus” project meant that deadlines were critical and that the work needed to be expedited. We developed a scope of work, met with FDOT to negotiate the scope, conducted private utility location, developed an MOT plan, and initiated the sample collection within 13 days of the first phone call. Our draft report was provided to the CRA within an additional 12 working days. This project was completed to the satisfaction of the CRA and FDOT and we delivered the project under budget by more than $12,000.

HUD Environmental Documentation and Area-wide Floodplain Management Eight-Step Decision-Making Process: To enhance the quality of life in our neighborhoods, the City Commission has established four Community Investment Programs: the Neighborhood Community Investment Program, the Neighborhood Community Investment Grant Program, the Business Community Investment Program, and the Business Community Investment Grant Program. The goal of these programs is to provide matching grant funds for the construction of community improvements in the City’s rights-of-way that beautify neighborhoods and enhance the quality of life for those who live in, work in, and visit the City. The majority of individual actions considered for these projects include the following: street name decorative posts, entryway monuments, entryway signs, concrete curbing, swales, sidewalks, median islands, decorative lighting, solar decorative lighting, landscape lighting, trees, landscaping, and irrigation. E Sciences has prepared numerous environmental documentation packages to support HUD funding for the City of Fort Lauderdale’s neighborhood improvement projects. The majority of these involved the preparation of Environmental Checklists in compliance with HUD regulations. E Sciences also prepared an Area wide Floodplain Management Eight-Step Decision-Making Process for them to utilize when projects are located within a 100-year floodplain as defined by Federal Emergency Management Agency (FEMA).

Fire Station #49 Emergency Response: This project was undergoing redevelopment with a new City fire station when petroleum contamination was discovered during construction. E Sciences mobilized to the site the same day as requested to further investigate the implications of this finding on construction and regulatory notification. Historical and regulatory records indicated historic underground storage tanks (USTs) on the property. Consultation with regulatory agencies, collection of soil and groundwater samples and sound environmental judgment allowed this project to proceed with minimal time delay and costs to the project. E Sciences also conducted air monitoring for construction workers to evaluate potential health implications of exposure to the unknown products discovered and provided the City with such documentation.

Opinion of Post Closure Costs, Wingate Landfill: In response to a City audit, E Sciences was tasked to develop an opinion of post-remediation costs for this Superfund site. Historic and future operations with respect to maintenance and monitoring costs were compiled in several spreadsheets to provide future annual allocations until fiscal year 2032. E Sciences created the spreadsheets such that the costs forecasts may be updated annually.

Wingate Landfill Burrowing Owl Relocation: This is a hazardous waste superfund site that has undergone regulatory closure. A protective cap system was installed at this historical municipal landfill to eliminate potential exposure to contaminants and to prevent migration of contaminants in the landfill into the groundwater. A condition of the closure is conducting monitoring of the groundwater, surface water and fish tissues on a periodic basis for a period of 30 years. During a five-year inspection, the EPA identified the presence of two burrowing owl burrows on top of the capped area of the landfill. The EPA directed the City to remove the burrows and evaluate the integrity of the landfill cap. E Sciences was engaged to evaluate the possible damage and coordinate burrow removal with state and federal regulatory agencies.

The burrows were scoped and video recorded in an effort to assess whether or not the owls had affected/damaged the geomembrane with inconclusive results. However, it was determined that there were no eggs or flightless young in the burrows. Following coordination with the EPA and the Florida Fish and Wildlife Conservation Commission (FWC), starter burrows were created outside of the cap area to encourage relocation of the owls to this area. The burrows were excavated and it was found that the cap had not been affected by the owls. The burrows were removed and the owls relocated themselves in the area outside the cap.

Fort Lauderdale Executive Airport Endangered Species Surveys, Permitting and Relocation: E Sciences has conducted multiple endangered species surveys, migratory bird and gopher tortoise relocation permitting and relocation for proposed construction projects at Fort Lauderdale Executive Airport. Endangered species encountered, permitted or relocated include burrowing owls and gopher tortoises.

Regulatory Compliance Assistance for U.S. Customs and Border Protection Facility: E Sciences was engaged by the City to assist with understanding the outstanding environmental and regulatory issues at a tenant space at the Fort Lauderdale Executive Airport as part of the planning for a future U.S. Customs and Border Protection Facility. The property is currently occupied by another private tenant who historically operated two fueling facilities: one abandoned in place and one recently taken out of service UST. Our scope of services included interviewing the tenant and a site visit, review of the tenant's consultant assessment reports, and communications with Broward County's Environmental Protection and Growth Management Department (EPGMD). E Sciences provided periodic updates and advised the City in ways to reduce the potential for liability associated with these former fueling systems and reduce the potential for them to impact construction.

Benthic Surveys for Sylvan Lake Canal & Seminole River Canal: E Sciences conducted benthic resources surveys to support obtaining permits for dredging in two City-maintained waterways. E Sciences' biologists snorkeled each site to observe the presence of regulated benthic resources (i.e. seagrasses, corals, etc.) E Sciences provided the City reports to accompany their permit applications.

Phase I/II Environmental Site Assessments: E Sciences has prepared Phase I ESAs for the City's Neighborhood Services group in order to support federal funding, in preparation for redevelopment and prior to site acquisition. The following sites are examples of these projects: Twin Lakes: E Sciences conducted a Phase I ESA and asbestos survey to support the City's purchase and redevelopment of this residence as a park. Hortt Elementary: E Sciences conducted a Phase I and Phase II ESA for the City to support their purchase of this school property intended for redevelopment as a neighborhood park. This property was initially developed by Mr. M.A. Hortt who was one of the early Fort Lauderdale settlers. The project was expedited to meet the constraints of contract timing. Progresso Village Neighborhood: This Phase I ESA was conducted to support a grant application for neighborhood improvement projects. Melrose Manors Neighborhood: E Sciences conducted a Phase I ESA and HUD Environmental Review for the City's Neighborhood Services group in order to support application for federal funding for decorative light posts. Lauderdale Manors Neighborhood: E Sciences conducted a Phase I ESA and HUD Environmental Review for the City's Neighborhood Services group in order to support application for federal funding for decorative light posts. Golden Heights Neighborhood: E Sciences conducted a Phase I ESA for the City's Neighborhood Services group in order to support application for federal funding for decorative entranceway signs. Sailboat Bend Preserve: E Sciences was hired by the City to conduct a Phase I and II ESA of vacant property being designated for use as recreational space and installation of a "tot lot". The property is adjacent to the City's public works and police department complex. No environmental concerns were identified. Parcel Located at 538 NW 9th Avenue: E Sciences was engaged by the City's CRA to conduct a Phase I ESA of this property, located across the street from the CRA building. This vacant lot was being procured by the CRA as part of an assemblage of parcels for future development opportunities along Sistrunk Boulevard.

Fort Lauderdale Executive Airport Fuel Spill Regulatory Assistance: As a result of damage to an aircraft fuel tank during a low speed collision between two airplanes at Fort Lauderdale Executive Airport, a jet fuel discharge was reported to EPGMD. Immediately after the incident, staff employed emergency procedures and properly managed the spill. E Sciences was initially called in to conduct soil sampling to determine if the soils in the area were impacted with jet fuel. When E Sciences reviewed the documentation, we determined that discharge response had been sufficiently managed and that the activities should not require soil assessment or a formal discharge report, which would trigger a requirement to conduct a Site Assessment. E Sciences provided documentation and communications with EPGMD in order to prevent the reported discharge from entering the bureaucratic process of future assessment and remediation requirements.

Fort Lauderdale Low Level Bridges: E Sciences provided asbestos surveys in anticipation of demolition and reconstruction of three low level neighborhood bridges for the City: The Harborage, Marcetta River, and Carlotta River. These reports met the requirements for FDOT, as FDOT was providing funding for this project.

Fire Station #46: E Sciences was contracted with the City to provide an indoor air quality survey to evaluate comfort-related issues posed by building occupants regarding indoor air quality. The scope of services included a walkthrough of the building; interviews with building occupants; observations of the air conditioning systems; measurements for temperature, relative humidity, carbon monoxide, and carbon dioxide in each building area; and moisture readings in areas where either visible indications of moisture impact were noted or that were reported by building occupants.

Environmental Assessment – South Middle River Improvement: E Sciences' completed an environmental assessment of the project area to satisfy HUD financial support for paving and drainage improvements along a section of the South Middle River neighborhood. E Sciences completed an Environmental Review and completed the Statutory Worksheet for HUD projects categorically excluded per 24 CFR Part 58.25(a) to determine whether or not the project will have a significant impact on the environment. The Worksheet includes an environmental assessment of potential impacts to historic properties, floodplain management, wetland protection, coastal zone management, sole source aquifers, endangered species, Wild and Scenic Rivers,

air quality, farmlands, environmental justice, noise abatement, explosives and flammables, toxic and radioactive chemicals and airport clear zones. The results of the evaluation determined that the project was not categorically excluded and required completion of the NEPA Environmental Assessment Checklist, revising the Statutory Worksheet in the Environmental Assessment Worksheet format, and a Finding of No Significant Impact (FONSI) to satisfy HUD financial support. In addition, E Sciences previously completed the Eight-Step Decision Making Process for Floodplain Management for the project area, which was included as part of the documentation. The Eight-Step Decision Making Process is completed in order to evaluate compliance for projects located within a floodplain or within a designated wetland. In this case, it was triggered by the location of the project within a floodplain and included public notice, evaluation of practicable alternative locations, identification of potential direct and indirect impacts, evaluated minimization of impacts and restoration and preservation of beneficial values of the floodplain.

Statutory Worksheet: Community Redevelopment Agency Resurfacing Projects: The City required an environmental evaluation of the project area to satisfy HUD requirements for providing financial support for resurfacing streets within the Fort Lauderdale CRA boundary. The approximate area of the project encompassed approximately 1,400 acres. The scope of our services included the preparation of an Environmental Review to comply with federal laws and authorities that would apply to HUD under the NEPA. The City previously submitted an Area-wide Floodplain Management Eight-Step Decision-Making Process to HUD for projects of similar nature and scope that are eligible for Community Development Block Grant (CDBG) funds. However, this particular activity (resurfacing) was not contemplated by the City at the time of the preparation of the Area-wide Floodplain Management Eight-Step Decision Making Process documentation. Based upon our review of FEMA maps, the projects contemplated under this environmental review included areas within the floodplain requiring that the City evaluate the project in those areas in accordance with the citywide process. E Sciences performed a review of the CRA area and review of internal and public documents to evaluate existing environmental conditions as they relate to HUD regulations within the CRA and potential for impacts. The final deliverable was a Statutory Worksheet with the supporting documentation verifying compliance.

Contract Budget/Fees: $593,822

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME E Sciences, Incorporated	(2) FIRM LOCATION *(City and State)* Fort Lauderdale, Florida	(3) ROLE Prime Consultant
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)	20. EXAMPLE PROJECT KEY NUMBER 3

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Continuing Contract for Environmental Engineering Services, Pompano Beach, Broward County, Florida	2010 – Ongoing	N/A

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Pompano Beach CRA	Mr. Horacio Danovich, PE	(954) 786-7834

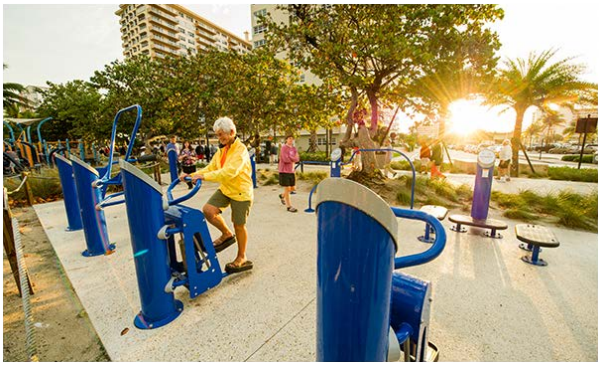
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost.)*

E Sciences was awarded a 2nd term contract with the Pompano Beach CRA to provide environmental engineering services. We also have a contract with the City of Pompano Beach to provide similar services, but this CRA contract is specific to assessing and remediating contamination to support redeveloping a blighted and disenfranchised community. All of the services provided under this contract are on properties within the designated Pompano Beach Northwest Brownfield Area.

Our approach to assisting this client has been to utilize creative assessment tools to identify the real potential concerns and to quickly assess how they can be addressed in a practical manner during design and construction. This approach is allowing the redevelopment projects to proceed without the obstacle of assessment and remediation. On numerous occasions, we have met in person with the client (at no cost) to understand the CRA's mission and overall goals and plans to ensure that our role on the team is integrated, practical and helpful. To date, E Sciences has provided tasks for several projects including the following:

CRA
POMPANO BEACH

Community Gardens Parcels: E Sciences evaluated the suitability of three vacant, CRA-owned parcels for use as community gardens for a local school. The community gardens will be used to teach children about agriculture and healthy food choices. Vegetables grown on these lots will be used to provide fresh vegetables for families and children in the community. Incremental sampling methodology was used for soil assessment at this site resulting in several thousands of dollars in savings for the CRA.



Broward Community & Family Health Center: E Sciences prepared Environmental Information and Documentation to satisfy Health Resources and Services Administration grant application requirements. The project was conducted to support the potential redevelopment of CRA parcels with a much-needed community health care facility. The documentation was required for the grant applicant to comply with NEPA.

Corner of Atlantic Avenue/West Dixie Highway: This is an assemblage of numerous parcels owned by the CRA and adjacent properties owned by others. E Sciences conducted a Phase I and Phase II ESAs on the multiple parcels. The Phase I ESA revealed Recognized Environmental Conditions (RECs) related to historical land uses such the following: dry cleaner, gasoline station, blueprint and photostat business, auto sales and service center with historic underground storage tanks and a lumber yard. The site was determined to be contaminated from the historic dry cleaner.

E Sciences prepared a site development evaluation for this property providing guidance to the CRA on how the presence of contamination could impact site redevelopment and set forth strategies for minimizing the impact of contamination on the construction; designing the site to minimize the impact of the construction and site development; and to reduce potential risks.

Blanche Ely and Adjacent Parcels: E Sciences assessed this property, which consists of 27 parcels in the CRA. Historic land uses such as dry cleaners, an automotive repair facility and an UST were identified to be RECs. Phase II testing indicated the presence of chlorinated solvents at this property. E Sciences further assisted the CRA on the best way to utilize the information in the context of the CRA's plans for future re-development. The CRA is currently moving forward with redevelopment of these properties.

Mallek Property: E Sciences performed a Phase I and Phase II ESA of multiple acres of urban land being purchased by the Pompano Beach CRA to evaluate potential environmental concerns. The Phase I ESA revealed the possible presence of a historic USTs and contamination associated with the historical land use. Phase II services included a geophysical survey, and soil and groundwater testing. A UST was discovered during the Phase II ESA. E Sciences provided guidance to the CRA as to the proper regulatory course of action to remove the UST and move forward with purchase and redevelopment of the Site.

8 Hammondville Road Parcels: E Sciences conducted a Phase I and II ESA for eight parcels within the Pompano CRA planned for future redevelopment. Buried debris was identified during the Phase II ESA, but guidance was provided to the CRA on how they could still redevelop the properties. The Site was successfully redeveloped and is currently occupied by a two-story commercial building and associated parking lot.

Flagler Avenue Property: E Sciences conducted a Phase I ESA of 0.5-acre parcel of land owned by the CRA to prepare for redevelopment. Our approach to performing this assessment included a review of the public records, interviews with appropriate local agencies, a site reconnaissance and preparation of a written report containing findings, opinions and conclusions.

731 Hammondville Road Parcel: E Sciences conducted a Phase I and II ESA for this parcel within Pompano CRA. The Phase I ESA revealed historic land uses that warranted further evaluation (gasoline station and dry cleaners). No contamination of concern was identified during the Phase II ESA.

Contract Budget/Fees: $153,154

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME E Sciences, Incorporated	(2) FIRM LOCATION *(City and State)* Fort Lauderdale, Florida	(3) ROLE Prime Consultant
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE

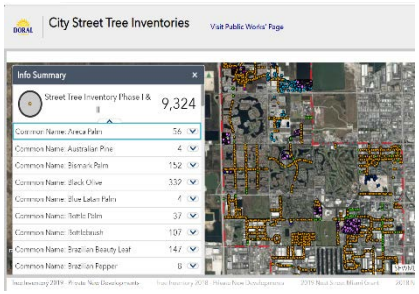
F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)	20. EXAMPLE PROJECT KEY NUMBER 4

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Environmental Engineering Continuing Services City of Doral, Miami-Dade County, Florida	2017 – Ongoing	N/A

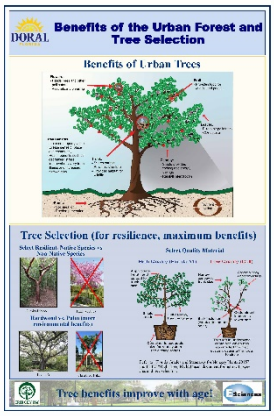
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Doral	Dulce Pantaleon	(305) 593-6740 Ext. 6010

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

City-Wide Tree Inventory: E Sciences conducted a city-wide tree inventory that included right-of-way street trees and trees located in parks and other city-owned properties. The inventory was conducted in three phases and was primarily funded through the Florida Forest Service Urban and Community Forestry Grant program. The inventory was uploaded onto the City of Doral website.



Street Tree Planting Plan: Based on the tree inventory, the City or Doral requested that E Sciences identify and prioritize street tree planting locations throughout the city. Locations were mapped and assessed for suitability. E Sciences provided a list of suitable tree options for each location, along with a planting budget and planting specifications.



Grant Writing: The City of Doral engaged E Sciences to prepare applications to the Florida Forest Service Urban and Community Forestry Grant program for a variety of urban forestry projects, including tree inventory and an urban forestry education program.

Urban Forestry Education Program: Using Florida Forest Service Urban and Community Forestry Grant program funds, the City or Doral engaged E Sciences to prepare materials to educate citizens on the importance and value of trees and how to care from trees in preparation for hurricanes. Materials included posters, pamphlets and a PowerPoint presentation. As part of this project, E Sciences presented the materials to community associations as a part of the City's "Mayor on the Move" program.

Environmental Sampling: The citizens of the City of Doral, have filed numerous complaints about the odors in various areas of the City. At the City's request, E Sciences conducted sampling to acquire data that would assist the City in identifying the nature and source of the odors noted in the northwest portion of the City. The goal of this sampling was to collect soil, groundwater, and surface water samples from areas identified by the City and laboratory analyze them for constituents (volatile aromatic compounds (VOCs) sulfide and ammonia) that may tend to contribute to the odors noted in the City. In addition, E Sciences was to screen the soil samples for organic vapors and hydrogen sulfide gas (H2S) using handheld meters, collect air screening samples using the handheld H2S meter, and collect air samples with SUMMA canisters for laboratory analysis.

Following completion of our initial field services, on January 23, 2020, H2S data loggers were installed at two locations. These systems were designed to provide long-term, continuous H2S gas monitoring at a minimum measurable level of 3 parts per billion (ppb) or 0.003 parts per million (ppm).

E Sciences provided the City with a report of the study's findings and recommendations for additional study. A second phase of sampling has been authorized and is currently underway.

Contract Budget/Fees: $171,969

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	E Sciences, Incorporated	Fort Lauderdale & Orlando, Florida	Subconsultant

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)	20. EXAMPLE PROJECT KEY NUMBER 5

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Environmental Engineering Continuing Services City of Miami Beach, Miami-Dade County, Florida	2011 – Ongoing	N/A

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Miami Beach	Elizabeth Wheaton	(305) 673-7010

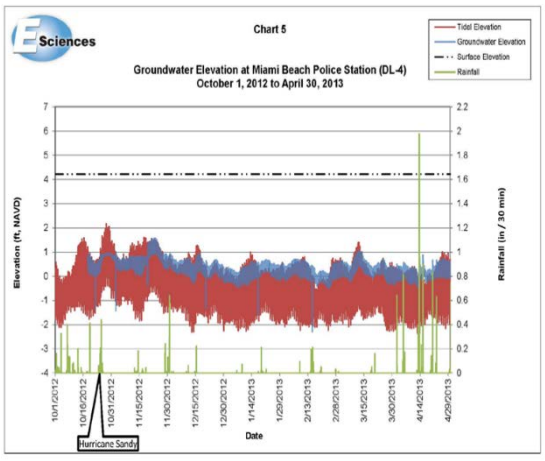
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost.)*

E Sciences was awarded a contract with the City of Miami Beach to conduct environmental engineering services. To date, E Sciences has provided the City with consulting services including the following:

Properties Adjacent to Miami Beach Convention Center: In preparation for redevelopment of City owned properties to enhance the convention center area, E Sciences conducted a Phase I ESA for land parcels adjacent to the Miami Beach Convention Center. These parcels included a parking lot west of the convention center, the 21st Street Community Center and Bandshell north of the convention center and the Fillmore theatre. The Phase I ESA revealed the operation of a historic golf course on the project sites. This finding was identified as a REC based on the potential historical application of herbicides and pesticides on the ground. A Phase II ESA was conducted by E Sciences to evaluate the potential presence of soil and groundwater impacts based on the historical use of the sites. Incremental Sampling Methodology (ISM) was selected as the soil sampling approach. ISM results were indicative of the presence of arsenic concentrations above approved naturally occurring concentration criteria specific for Miami Beach. Limited groundwater impacts were detected in one area. E Sciences assisted the City in evaluating a viable development approach to address the onsite impacts. Upon coordination with Miami-Dade County Department of Regulatory and Economic Resources (RER) Department, the City has elected to implement a combination of engineering controls (ECs) and source removal efforts as part of the development plan for the sites. Off-site assessment activities have been deferred to a later date. E Sciences documents were included as part of the bidding documents to provide guidance to the development contractor.

Proposed Miami Beach Convention Center Headquarter Hotel: E Sciences conducted a limited site assessment for a site including a portion of the Fillmore Theater and parking areas adjacent to the Convention Center. This assessment was conducted based on the former presence of a golf course discovered during a Phase I ESAs conducted by E Sciences for adjacent properties. The assessment included soil and groundwater sampling and confirmed the presence of localized soil arsenic impacts and the presence of nitrate concentrations above groundwater cleanup criteria at the site. The City indicated that they would address these discoveries during development planning and implementation at a future time.

Sea Level Rise Evaluation: E Sciences, Incorporated was engaged by the Miami Beach to evaluate areas within the City in anticipation of sea level rise (SLR). The purpose of the study was to evaluate low-lying areas vulnerable to flooding and SLR within Miami Beach based on the assumption that the groundwater levels are tidally influenced and therefore flooding may also be influenced or exacerbated by tidal fluctuations. These areas were identified as areas with limited soil storage capacity and where SLR is expected to further reduce the soil storage capacity. To accomplish this, E Sciences monitored groundwater elevations, tidal elevation and rainfall data over a period of twelve months. As part of this study, groundwater levels were compared to tidal conditions to evaluate the correlation between fluctuations in mean tide and mean high water. The data collected was used in conjunction with LiDAR topography to model vulnerability and provide valuable information to assist on future infrastructure planning for the City.



The E Sciences team (including Florida Atlantic University) developed a Soil Capacity Model intended to help identify areas of potential short- and long-term flooding and areas where SLR is expected to reduce unsaturated soil storage capacity further. The results of this model were contoured to provide a spatial representation of flood prone areas.

E Sciences submitted a report to the City presenting our methodology, the results of the study in narrative, charts and graphics, and recommendations E Sciences presented interim findings of this study at the Water Symposium held by the South Florida Association of Environmental Professionals as part of a presentation titled "*Integrating Engineering and Environmental Strategies to Mitigate for, and Adapt to, Climate Change Impacts to Coastal Urban Communities*." We were also requested to be a collaborator and advisor on a research project titled *Environmental Finance and Risk Management for Coastal Urban Resilience: Sustainability in South Florida Through Investment-Driven Ecology* with the University of Miami, Florida State University, Florida International University and the University of Hawaii.

Since the completion of this city-wide study, the City engaged E Sciences in the evaluation of groundwater elevation trends in the Sunset Harbor neighborhood. E Sciences provided technical training and support to the City on equipment installation and maintenance, data download and evaluation, and modeling efforts.

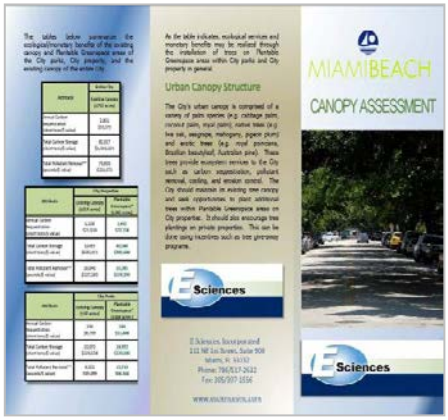
Spill Prevention Control and Countermeasure (SPCC) Plans: E Sciences prepared SPCC Plans for 12 facilities located throughout Miami Beach. These facilities included pump stations, fire stations, public works yard, Miami Beach Golf Club and the Convention Center. E Sciences' approach for developing the SPCC Plan(s) followed the steps outlined in applicable federal regulations (Title 40 CFR Part 112). The Plans were reviewed and certified by an E Sciences Professional Engineer. We also incorporated provisions to assist the City with compliance with state and local regulations. We conducted the following activities to obtain the information required to complete the Tier I SPCC Plans:

- Review available as-built drawings, surveys and plans related to the structures and drainage pathways
- Conduct a site visit of each facility with a person knowledgeable of the facility's tank systems, coordinated through the City's Environmental Department
- Interview the site manager or other personnel familiar with the tank systems and other oil storage systems
- Review records of previous spills
- Evaluate topography and surface water flow regimes
- Evaluate areas of obvious discharge potential and spill sources
- Identify environmentally sensitive areas and potential receptors if a spill were to occur
- Document security measures to prevent unauthorized access to oil handling
- Develop a list of emergency response personnel
- Review the City's spill response measures
- Review records of tank integrity and pressure tests
- Review the City's personnel training records

Green Waste Facility: This site was an undeveloped, bermed area located on the east side of the Miami Beach Golf Club. The site was previously used by the City of Miami Beach for solid waste management, and a portion of the area contained buried debris. In anticipation of constructing a wastewater reclamation facility, the City implemented a material screening plan to remove the buried solid waste and screen out the larger (greater than 2-inches) pieces of solid waste for off-site disposal. The recovered screened material (RSM) was merged with a berm around the solid waste handling area to separate it from adjacent properties and the golf course. The larger pieces of debris removed consisted primarily of rock, concrete and wood. Miami-Dade Regulatory and Economic Resources required the City to demonstrate that there was a minimum of two feet of clean fill or other EC in place covering areas of solid waste in or around the berm in order to pursue regulatory closure for the site.

E Sciences conducted environmental services to evaluate the top two feet of soil layer covering the berm. In order to complete the project in a time and cost-effective manner, E Sciences developed a phased sampling approach by collecting the necessary samples but conducting laboratory analysis on an iterative basis. The initial sampling results revealed the presence of regulated contaminants above regulatory criteria, therefore additional analysis was not deemed necessary. The City elected to implement an EC to achieve conditional site closure along with the adjacent golf course property, protecting human health and the environment. E Sciences prepared an EC design and provided oversight and regulatory coordination for the installation of the EC. The design and installation of the EC received regulatory approval, and E Sciences assisted with drafting the restrictive covenant to be used for the final conditional closure.

Fleet Management Facility: E Sciences conducted groundwater and soil assessment activities at the active City's fleet management facility. The assessment was completed in order to evaluate the presence of contamination associated with a historical petroleum discharge documented in 1992. This assessment revealed the presence of free-floating product in the groundwater and soil impacts within a localized area at the facility. E Sciences prepared and submitted a Site Assessment Report Addendum (SARA) including source removal plan recommendations. The SARA and source removal plan received regulatory approval from RER. E Sciences recently prepared a Monitoring Only Plan (MOP) as part of a Consent Agreement between RER and the City to maintain certain environmental provisions on the site while waiting to implement cleanup and remediation efforts during the anticipated development of the property. The MOP was approved by RER, and E Sciences is conducting groundwater monitoring in lieu of active remediation.



Tree Inventory: E Sciences has completed a six-phase, City-wide inventory encompassing trees on all municipal properties, including streets, parks, government centers, etc. A total of 48,650 trees were inventoried. The work was conducted using sub-meter accurate global positioning equipment. E Sciences provided the City with an ESRI ArcGIS shape file. The work included assessing each tree for its general condition and providing recommendations for maintenance.

Greenspace Canopy Assessment: Using i-Tree Canopy and i-Tree Vue, E Sciences assessed the extent of the City's urban forest canopy and the ecological services provided by the trees. E Sciences estimated the canopy coverage for the City's entire urban forest, its parks and its rights of way using i-Tree Canopy. We also estimated the percentage of available space remaining within the City for additional tree planting. E Sciences used this information to estimate the carbon sequestration and storage, as well as pollutant removal being provided by the trees. E Sciences developed a brochure for public education documenting the information from the study.

Carl Fisher Seawall State Permitting Support: The Carl Fisher Clubhouse was constructed in 1916 and is the oldest public standing structure in Miami Beach. It is on the National Register of Historic Places and is a locally designated historic structure. As part of the restoration of the Clubhouse, and to protect this historic resource, the City also needed to repair the seawall on Collins Canal, which was severely deteriorated. Mangroves had recruited to the area. E Sciences performed a field assessment with the SFWMD, performed an impact evaluation and functional assessment of the mangroves and acquired the Environmental Resource Permit from SFWMD. Permitting required coordination with the State Division of Historical Resources and reservation of saltwater mitigation credits from the Everglades Mitigation Bank.

Groundwater Elevation Monitoring and Mapping Support, Sunset Harbor: E Sciences assisted the City of Miami Beach with the completion of a groundwater elevation monitoring study in the Sunset Harbor neighborhood. This study was conducted by the City to evaluate the soil storage capacity within this area to support the design and installation of a stormwater management system.

E Sciences provided the City with training and support during installation of the equipment and data collection, data management and modeling efforts. We understand that the City has successfully installed equipment and downloaded data with the assistance of E Sciences personnel.

Contract Budget/Fees: $415,857

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME E Sciences, Incorporated	(2) FIRM LOCATION *(City and State)* Fort Lauderdale & Miami, Florida	(3) ROLE Prime Consultant

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)	20. EXAMPLE PROJECT KEY NUMBER 6

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Districtwide NPDES Stormwater Permit Compliance Contract, FDOT District Four, Broward, Palm Beach, Martin, St. Lucie and Indian River Counties	2008 – Ongoing	N/A

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
FDOT District Four	Ivette Leiva	(954) 777-4221

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

E Sciences is employed by the FDOT District Four to provide NPDES stormwater permit implementation and compliance services. FDOT District Four is located in South Florida and includes five counties: Broward, Palm Beach, Martin, St. Lucie and Indian River. The NPDES program throughout the U.S. divides the program into either Phase I – areas with large MS4s, generally serving populations of over 100,000, and Phase II – MS4s serving populations under 100,000. District Four has both Phase I areas (Broward and Palm Beach Counties) and Phase II areas (Martin, St. Lucie and Indian River Counties – collectively known as the Treasure Coast).

This aerial shows outfalls in Fort Lauderdale inspected by E Sciences staff

Services provided by E Sciences include preparation and submittal of Annual Reports to the FDEP each year for Phase I permits (Broward and Palm Beach Counties) and alternate years for Phase II (Treasure Coast); inspections of over 4,000 stormwater facilities and over 600 outfalls; annual inspections of the three FDOT maintenance yards; providing Illicit Discharge Detection and Elimination (IDDE), Spill Prevention, and Construction Site Erosion Control training to FDOT maintenance employee; and providing miscellaneous support such as investigating IDDE reports and representing FDOT at NPDES meetings. E Sciences has implemented numerous innovative tools to reduce inspection costs such as using tablets in the field to instantaneously generate reports, and closely tracking maintenance trends to reduce inspection frequencies


Outfalls to swale along interstate

Our services also include maintaining and updating the FDOT GIS database using two major sources of data: coordinating with Construction to obtain information about new facilities; and georeferencing the state road system using existing as-built plans that E Sciences download directly from FDOT's GIS database, scan, digitize, prepare attribute tables and submit to FDOT's GIS department.

Beginning in 2010, several TMDLs were adopted by the FDEP in District Four, two of which proceeded to the BMAP phase: the CIRL and St. Lucie Estuary TMDLs. E Sciences provides key technical support to FDOT for the TMDL program including representing FDOT at BMAP meetings, preparing basin GIS layers for submittal to FDEP, compiling treatment inventory, calculating pollution loads and pollution load reductions, assessing the FDEP TMDL models, and preparing Annual Progress Reports.

In 2011, FDEP issued the new Third Term NPDES MS4 Permits, which included requirements for pro-actively addressing TMDLs. In Broward County there were two new TMDLs: Pompano Canal (nutrient TMDL) and North Fork Snake Creek (WBID 3279A, bacteria TMDL). E Sciences provided technical data and senior review of the Monitoring Report for the Pompano Canal TMDL, which was successfully "de-listed". For WBID 3279A E Sciences developed a Walk the Roadway protocol accepted by FDEP for the single FDOT road in the WBID. FDEP approved FDOT's BPCP with no comments; it is noted that it was the first BPCP to be approved by FDEP.

Outfall to stormwater pond

With issuance of the new Fourth Term NPDES MS4 permit in January 2018, Broward County has 11 bacteria TMDLs and Palm Beach County three TMDLs to be addressed. E Sciences is working closely with FDOT to meet the permit requirements for prioritized TMDLs as well as assist other co-permittees on FDOT's behalf as requested. The first steps for the prioritized TMDLs (one in each county) was to georeference the entire stormwater system, map the drainage basins, coordinate with the maintenance staff for maintenance records, review land uses adjacent to FDOT's right-of-way, and calculate pollutant loads. The next steps are to team with stakeholders to map and perform field reconnaissance on areas of concern. The final step will be to compile the information into a BPCP.

Also new with the Fourth Term NPDES MS4 permit, FDEP is requiring all permittees submit individual Assessment Programs to assess whether the Stormwater Management Plans each co-permittee developed is effective, based on monitoring data and/or pollutant loading. E Sciences assisted several municipalities, including the City of Fort Lauderdale and the FDOT prepare their Assessment Program. The City of Fort Lauderdale's and FDOT's Assessment Programs were approved with no comments.

Drainage swale along interstate

Drainage swale and control structure

Contract Budget/Fees: $6,857,273

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME E Sciences, Incorporated	(2) FIRM LOCATION *(City and State)* Fort Lauderdale, Florida	(3) ROLE Prime Consultant

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)	20. EXAMPLE PROJECT KEY NUMBER 7

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Wynwood NW 3rd Avenue Woonerf City of Miami, Miami-Dade County, Florida	2017 – 2019	N/A

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Local Office Landscape and Urban Design	Ms. Jennifer Bolstad	(718) 788-1987

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

E Sciences provided environmental engineering services that included environmental site analysis and impact evaluations, vulnerability assessments, and resiliency planning and design related to green infrastructure and stormwater management at the NW 3rd Avenue Woonerf site in the Wynwood art district within the City of Miami. This project involves the conversion of four blocks of urban hardscape in the heart of the Wynwood art district from NW 25th street to NW 29th street into a "woonerf" which is a Dutch-inspired, pedestrian friendly "living" complete street incorporating green design elements, ecological benefits, and pedestrian safety.

E Sciences provided innovative stormwater retrofits involving low impact development (LID) design for this unique, green streetscape project. The environmental site analysis and vulnerabilities and resiliency assessments included heat island effect considerations, energy resource considerations, stormwater and green infrastructure assessment, community outreach and site design related to the stormwater and environmental aspects of the project. Metrics and grant funding approaches have included an E Sciences' evaluation to assist with project funding and resiliency.

The project is a pilot project designed to showcase and scale-up resiliency and adaptation design measures, and a variety of climate-change oriented sensors. This project will feature stormwater design conveying green infrastructure such as permeable pavement with underground storage and bio-retention planting areas; tree planter retention areas with structural soils; bio-sorption activated media; cisterns; above-ground rain tanks; solar power; stormwater engineering art; and climate change concepts through public education and outreach.

E Sciences led the green infrastructure design and integrating the LID principles to depict stormwater management as functional environmental art which ties the site to the Everglades and Biscayne Bay natural areas of Miami. The project is intended to improve pedestrian safety, harness social interaction and business development, and to improve water quality and flood reduction in the district. This project was presented for an international award competition at a Climathon event in Paris, France in January 2020.

Project Budget/Fees: $21,699

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME E Sciences, Incorporated	(2) FIRM LOCATION *(City and State)* Miami, Florida	(3) ROLE Subconsultant

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)		20. EXAMPLE PROJECT KEY NUMBER 8
21. TITLE AND LOCATION *(City and State)* Continuing Engineering Services, Islamorada, Village of Islands, Monroe County, Florida	22. YEAR COMPLETED PROFESSIONAL SERVICES 2001 – Ongoing	CONSTRUCTION *(If applicable)* N/A

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Islamorada, Village of Islands	b. POINT OF CONTACT NAME Cheryl Cioffari	c. POINT OF CONTACT TELEPHONE NUMBER (305) 664-6422

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

E Sciences has provided a variety of environmental engineering consulting services for Islamorada, Village of Islands, (Village) including the following:

Interim Director of Public Works: During transition between Village Public Works Directors, E Sciences was requested to fulfill the duties of the director on an interim basis. The transition took place during a critical phase of infrastructure growth — the Village was constructing its first wastewater treatment plant and collection system. E Sciences' role involved managing and overseeing multiple functions related to public works projects, including stormwater, wastewater and other capital improvement projects.

Wastewater Treatment Alternatives Analysis: E Sciences prepared a feasibility study and cost comparison to assist Islamorada in deciding whether to treat wastewater on-island or send all or a portion of it to a consolidated plant being constructed in Key Largo for treatment. This study involved a conceptual design of a transmission system from Key Largo to Islamorada, including all related wastewater facilities. We estimated capital and operational costs for four on-site wastewater treatment plants as well as a conveyance system to Key Largo's plant. Costs for the various scenarios were compiled and summarized to provide five alternatives for consideration. Additional considerations included construction and hook-up phasing, legal issues, environmental considerations, aesthetics, limited land availability, and legal issues. E Sciences met with the Village's Water Quality Improvement Citizens' Advisory Committee and presented the findings to the Village Council.

Stormwater Technical Manual: E Sciences prepared a Stormwater Technical Manual for the Village in order for them to provide guidance to engineers and developers that are preparing stormwater management plans for site development within the Village. The manual outlined the Village requirements and provided forms to streamline the review process for simple projects. In 2016, E Sciences updated this manual to incorporate modern technologies and stormwater management practices to promote design and development using technologies that are more sustainable and applicable to the uniqueness of the Village.

Stormwater Plan Reviews: The Village provides E Sciences with stormwater management plans for new developments and redevelopments that are submitted to planning and zoning. E Sciences reviews the plans for consistency with the Village's ordinances, land development regulations and Stormwater Technical Manual. Review letters providing our opinions and requests for additional information, if appropriate, are provided at the conclusion of the reviews. Reviews are typically completed within three to five days.

Wastewater Master Plan Due Diligence and Regulatory Compliance Assessment: E Sciences projected probable demand for reuse water, evaluated a full-service package wastewater treatment facility scenario, and assessed comparative mass nutrient loading and regulatory compliance issues. A regulatory compliance assessment was also performed which assessed (based on actual performance data of existing facilities currently operating in the Village) the reliability of producing compliant wastewater treatment effluent if a complete network of package wastewater treatment facilities was constructed. FDEP data records were reviewed regarding the compliance history of package wastewater treatment facilities currently operating within the Village.

Request for Proposals Development and Wastewater Rate Study: E Sciences prepared a RFP for the design, construction and implementation of a wastewater treatment facility and collection system to serve North Plantation Key. E Sciences assisted the Village with securing a design/build team for Phase I North Plantation Key/North Plantation Key Colony Wastewater Treatment and Collection System. Staff members researched technical specifications and reviewed the Preliminary Design Report for North Plantation Key Colony/North Plantation Key Wastewater Collection System as well as the Monroe County Wastewater Master Plan to prepare the technical RFP for the Village. E Sciences attended several meetings including Village Council Meetings, meetings with Village staff and Water Quality Committee Meetings. Staff worked closely with the water quality committee to address the communities' concerns in the RFP. E Sciences evaluated proposals submitted by bidders, ranked firms on technical merit and conducted interviews on behalf of the Village. We then shortlisted the bidders and conducted a second round of interviews to choose the Design/Builder. E Sciences assisted the Village in negotiations with the potential Design/Builder and helped to secure a Design/Build Agreement.

Program Management / Plantation Key Wastewater Treatment Facility: E Sciences provided Engineering Support Services to the Village of Islamorada for the design and construction of the North Plantation Key (NPK) wastewater treatment facility and collection system. The NPK project entailed the construction of a 0.355 MGD-MMADF wastewater treatment facility using a membrane bioreactor activated sludge biological nutrient removal treatment process. The project also includes a vacuum collection system with eight miles of vacuum sewer piping and force main. Construction of a reclaimed water system with 3.5 miles of transmission main was also part of the project. Construction was accomplished through two design/build contracts. E Sciences' role extended throughout the project. Our initial responsibilities included the preparation of technical Request for Proposals (RFPs) for the two phases of this project. During the most recent contractor selection process, E Sciences provided two engineers to participate in the selection committee. E Sciences negotiated with the contractor on behalf of the Village and also was a lead participant in ensuring that the Village was able to receive $6.5 million in grant funding by contributing technical ideas and research and project management services to ensure that ambitious grant-related milestones were met. E Sciences also supported the Village in the selection of the treatment plant operation and maintenance (O&M) contractor through the preparation of an RFP and participation in the selection committee. E Sciences acted as the Village's Design Consultant during the design phase of each NPK project. In this role we performed detailed reviews of plans and specifications for compliance with the contract documents, industry standards, constructability, ease of maintenance and other issues important to our client. During the construction phase of each project we performed construction engineering and inspection services. This included reviewing shop drawings, attending and participating in progress meetings, performing site inspections, reviewing the contractor's pay applications, evaluating change orders, oversight during the testing and acceptance phase, evaluating technical issues that arose during construction and offering solutions, and performing final inspections and developing punch lists. We also tracked the tasks required to transition from the construction phase to the operational phase and coordinated the construction and O&M contractors' activities to ensure a smooth transition.

Construction Engineering Services: E Sciences provided CEI and engineering support services for the NPK / NPK Colony Wastewater Treatment Facility and Collection System in Islamorada, Florida. E Sciences prepared the technical RFP for Phase I NPK Colony Wastewater Treatment Facility and Collection System and assisted the Village with securing a Design/Builder for the project. Staff served as the design consultant for the Village of Islamorada for this project. Responsibilities included plans and specifications review; shop drawing reviews; general CEI services, including on-site inspections; payment application processing; and interaction between the client and the Design/Builder. E Sciences conducted weekly site inspections and attended monthly progress meetings. These tasks also included negotiating a change order to expand the wastewater treatment facility from a 0.1 MGD-AADF facility to the current 0.25 MGD-AADF facility. E Sciences services included assistance with negotiations with regulatory agencies and permitting, CEI, RFP bid evaluation, biological survey, wetland delineation, and turbidity reports.

Indian Key Fill Bike Path/Stormwater Demonstration: This project was a first-year implementation project under the Village's Stormwater Master Plan. The project is located on a one mile long, narrow strip of land known as Indian Key Fill, which is bordered by Florida Bay on the west and the Atlantic Ocean on the east. In this area, these two water bodies are Outstanding Florida Waters and are part of the Florida Keys National Marine Sanctuary.

Indian Key fill is dissected by the Florida Keys major road artery, US 1, on either side of which was a sparsely vegetated, linear bike path that was on grade with the slope from the highway. The combination of the slope and sparse vegetation allowed stormwater to runoff almost unimpeded into the adjacent bay and the ocean. The goal of the project was to pre-treat stormwater runoff along the one mile stretch to improve water quality and minimize pollutants discharging into Florida Bay and the Atlantic Ocean. The first step in the project was to demolish the old bike path. The area was then re-graded, and a new, meandering bike path with swales was constructed on both sides of US 1. The final step was to install xeriscape landscaping using native plants. The result of the project was to provide water detention for the stormwater that allowed percolation and biofiltering prior to discharging into the adjacent water bodies. Additional benefits include enhanced areas for native wildlife and added recreational open space for residents and visitors.

Stormwater Land Development Regulations: E Sciences assisted Islamorada in developing land development regulations to address stormwater impacts during development/redevelopment within the Village. Services included compiling data related to existing stormwater systems within the Village and developing the language for the regulations. Areas covered in the regulation text included the development/redevelopment process and its relation to the Village's review process and adherence to existing county, water management district and state regulations. Services also included development of a matrix of alternatives related to the type of designated land use activities, as well as specific design criteria needed for each stormwater treatment facility.

Water Quality Master Plan: The project included several tasks, the first of which was an Assessment Report that included an inventory of Village residential canals, attributes and classification using the Monroe County Residential Canal and Inventory report. This was supplemented with Village water quality monitoring data and, using this data, a recommendation for suitable canals for the water quality project with the funds available was provided. Once a decision was made regarding the canal and treatment technology, drawings were generated to prepare a bid package, permit applications.

Contract Budget/Fees: $1,090,832

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME E Sciences, Incorporated	(2) FIRM LOCATION *(City and State)* Fort Lauderdale, Florida	(3) ROLE Prime Consultant
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)	20. EXAMPLE PROJECT KEY NUMBER 9

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
General Environmental Engineering Services City of North Miami Beach, Miami-Dade County, Florida	2009 – 2019	N/A

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of North Miami Beach	Frank Ruiz	(305) 948-2967

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

E Sciences maintains a continuing services contract with the City of North Miami Beach to conduct environmental engineering services on an as-needed basis. Through this contract, we have provided the following services to support the City:

- Phase I ESAs
- SARs and Remediation Planning
- Brownfields Designation Support
- Compilation of bids for services such as pre-demolition (asbestos, lead paint) surveys and debris removal
- Guidance on requests for off-site sampling
- Attendance and representation at various venues such as City Council and CRA meetings
- Stormwater support services
- Georeferencing and digitizing stormwater plans

The following outlines some example projects:

Washington Park Soil Testing: As a precautionary measure and at the City's request, E Sciences conducted soil testing at Washington Park, prior to planning for future redevelopment. Unaware of any spills or releases at the park, the City elected to test the soil in-situ prior to engaging a contractor to evaluate whether the soil required handling as "contaminated". Based on the known use of the property, the analytical scope was selected to include arsenic, pesticides and herbicides. Sampling was limited to the open ground accessible areas of the site. This project was time sensitive and was completed in two weeks from proposal to submittal of findings. This final report was submitted to the City in May 2019.

Asbestos Removal City Hall 3rd Floor: As part of the City Hall renovations, the City planned on the removal of the floor tile located within room numbers 301, 302, and 303 and the associated hallways prior to renovation activities. Because the floor tile was old and had the characteristics of typical vinyl asbestos tile, the City suspected that the material contained asbestos and elected to remove it in a prudent manner. The City requested that E Sciences coordinate the following services to be completed by a licensed asbestos consultant and removal contractor: asbestos survey of the flooring to confirm asbestos content; removal of asbestos content if present; conduct on-site asbestos awareness training; air clearance testing and monitoring; and provide documentation of project completion. The final Report of Abatement Oversight and Air Monitoring was submitted to the City in November 2014.

Stormwater Support Services: In order to assist the City with their stormwater management and NPDES programs, E Sciences developed three main tasks. The first task was to georeference and digitize the Stormwater Atlas that the City utilized to map their stormwater system. Under this task, E Sciences developed a GIS database converting the Stormwater Atlas (which was in pdf format) into a GIS database and accompanying attribute table; the final database included links to the applicable plan set for each component. The second task completed was the update of the City's 1993 NPDES Operating Manual to meet the new, Third Term NPDES MS4 permit conditions, such as developing SOPs, and developing systems for tracking program components such as maintenance, street sweeping and training. The third task was to develop a citywide stormwater master plan to assist the City with updating existing infrastructure, refining and prioritizing future stormwater infrastructure needs, and reviewing and updating codes (as needed). E Sciences reviewed extensive sources to gather the necessary data to develop a stormwater model and master plan for the City. The Stormwater Master Plan was deferred to a later time when the additional data collection necessary to complete the study could be collected. These services were provided to the City in 2015.

In addition, the following projects have been completed to date: Taylor Park: Taylor Park has been slated for redevelopment since 1999, when the FDEP had a Brownfields Assessment conducted. The assessment revealed the presence of metals and petroleum contamination in the soil and metals contamination in the groundwater. In 2005, assessment activities revealed the presence of buried solid waste within most of the 21.8-acre property. Since that time, environmental issues have continued to restrict and complicate redevelopment efforts for the property. The property was previously occupied by an inactive baseball field, a daycare facility, vacant land, and a lake.

Taylor Park: In the summer of 2009, E Sciences was contracted by the City to move the assessment, cleanup and redevelopment of the property forward. As a team, E Sciences, the City, and Akerman Senterfitt developed a comprehensive approach to coordinating management of the environmental issues at the site with the redevelopment of the property as a community park. Our approach involved the following:

Innovative techniques employed included conducting risk assessment of arsenic impacted areas to the satisfaction of the regulatory agency, geophysical surveys to identify the extent of buried solid waste and evaluating areas with higher concentrations of contaminants to plan for possible source removals. Remediation alternatives proposed included the following:

- Source removal;
- Continuous methane monitoring within the structures on-site;
- Installation of a surface cap to prevent infiltration of stormwater and exposure to buried materials;
- Quarterly methane monitoring at the site perimeter and interior of buildings; and
- Quarterly groundwater monitoring.

E Sciences submitted the assessment and conceptual remedial design to the Miami-Dade County Department of Environmental Resources Management and received approval in 2011.

The City ceased performing additional assessment and remedial actions due to funding limitations. The Miami-Dade County Department of Solid Waste Management (DSWM) has since assumed responsibility for assessment and remediation of the Site. The City and the County are working together to complete the assessment and remediation in order to accommodate the planned redevelopment of the park. The Site was accepted into Florida's Brownfields Program through execution of a Brownfield Site Rehabilitation Agreement on December 16, 2015. E Sciences is currently working with Miami-Dade DSWM on the ongoing remediation of the property.

Contract Budget/Fees: $209,077

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME E Sciences, Incorporated	(2) FIRM LOCATION *(City and State)* Fort Lauderdale & Miami, Florida	(3) ROLE Prime Consultant

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)	20. EXAMPLE PROJECT KEY NUMBER 10

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Miami Miscellaneous Environmental Engineering Services City of Miami, Miami-Dade County, Florida	2017 – Ongoing	N/A

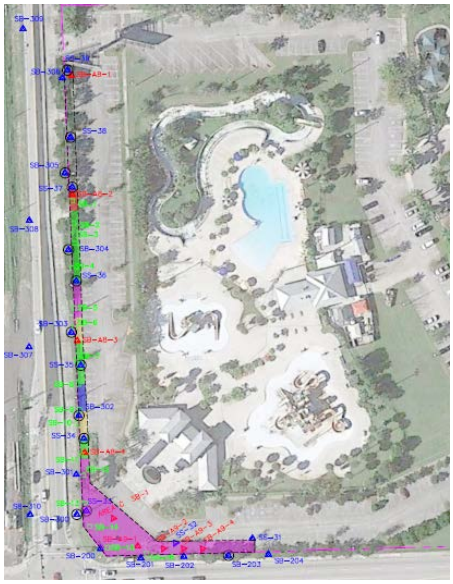
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Miami	Keith Ng	(305) 416-1298

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

Under our existing Miscellaneous Environmental Engineering Services contract, E Sciences is assisting the City of Miami with an environmental assessment and regulatory compliance for multiple City parks.

EC Inspections: The City of Miami has installed EC to address the presence of buried debris and contaminated soil in 11 parks. The ECs are intended to prevent exposure to contaminated media and prevent migration of the contaminated soil. E Sciences conducts monthly visits to document the condition and status of the EC in each park. The inspections are conducted in accordance with EC Plans approved by the Miami-Dade DERM. E Sciences compiles inspections forms and photographic documentation for quarterly submittal to DERM. The observations documented are used to determine the necessary corrective actions to ensure the integrity of the EC.

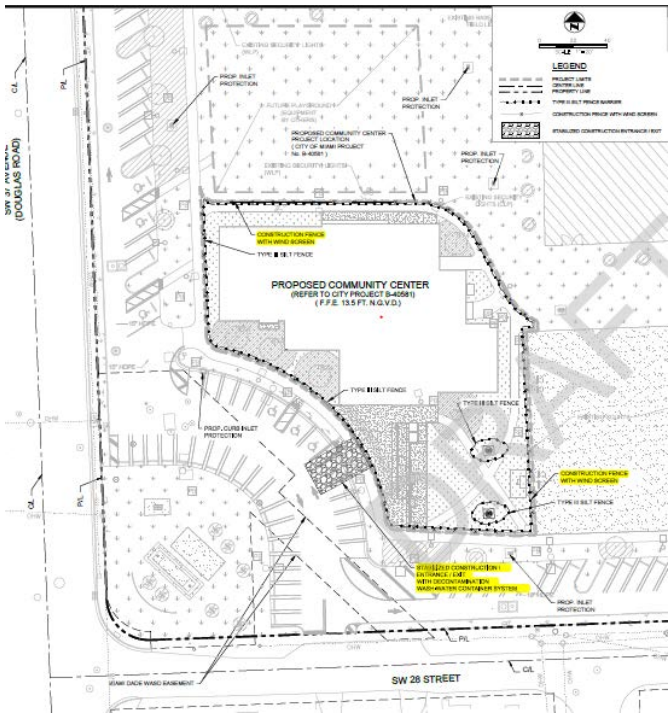
Grapeland Park: This City Park was historically utilized for growing strawberries and burial of municipal incinerator ash generated by the former city incinerator. Site assessment and source removal activities have been implemented at the Site. An EC has been installed as an interim measure in nine distinct areas where there was evidence of exposed debris and to prevent direct exposure to contaminated media. Based on review of assessment data, DERM requested that additional soil assessment be conducted to evaluate the presence of buried debris and arsenic impacts along the southern property boundary and site-wide groundwater sampling and analysis be conducted in accordance with an approved Monitoring Only Plan.



E Sciences was engaged to conduct additional soil assessment and implement the required groundwater monitoring. Soil borings were advanced along the site boundary to define the horizontal and vertical extent of the buried ash material and collect soil samples to define the impacted soil area to be addressed by source removal and engineering controls. The results of the soil assessment were documented in a Response to Comments dated November 17, 2017. Groundwater sampling results were documented in a Quarterly Groundwater Monitoring Report dated November 17, 2017 and February 14, 2018. Currently, E Sciences has been tasked with developing the scope and implementing remediation of the southern property boundary. Remediation of this area will consist of excavation and installation of an EC.

Douglas Park: Historically, the Site was known as Tousey Rock Pit. The City Commission adopted a resolution on July 13, 1938 setting aside the Tousey Rock Pit Tract for the "municipal purpose of dumping and burning of trash and rubbish". Previous assessment documents indicated that ash from the City's Coconut Grove incinerator facility was deposited at the Site during subsequent years and the park was under development in 1961. In 2013, the Miami-Dade County DERM inspected and collected samples from the Site as part of an ongoing evaluation of areas surrounding the former Coconut Grove incinerator at that time. The presence of solid waste and the presence of antimony, arsenic, barium, copper, iron, and lead concentrations of above applicable criteria were identified during this evaluation. Upon completion of additional assessment, the presence of soil impacts and buried debris were addressed through a combination of source removal and engineering controls across the site.

Construction activities associated with the corrective actions implemented at the site, led to the abandonment of monitoring wells across the site. DERM requested that a monitoring well replacement plan be submitted for review and approval upon completion of construction activities. Additionally, DERM noted that due to the presence of iron levels exceeding Miami-Dade County background levels; offsite delineation of the groundwater contaminant plume may be required. E Sciences was engaged by the City to install replacement wells and conduct groundwater sampling activities to evaluate the current groundwater contamination plume and develop the proposed course of action based on results. E Sciences completed well installation and groundwater sampling activities documented in a Groundwater Monitoring Well Installation and Sampling Report dated November 17, 2017 and a subsequent Groundwater Monitoring Report dated March 5, 2018. In correspondence dated December 11, 2017, DERM requested that additional delineation of the iron impacts. E Sciences is awaiting approval from the City to proceed with additional well installation and sampling activities.



The City is currently planning the construction of park amenities for the residents. The amenities will consist of a Community Center, a rubberized playground and an exercise equipment area and will be subject to the corrective action plan requirements. The City engaged E Sciences to prepare environmental documents that will be required to be provided to the Miami-Dade County for review during the permitting process or as a permit condition.

E Sciences has drafted environmental specifications for the contractor to manage solid waste or contaminated materials that may be generated during construction activities based on review of regulatory data documented at the site and approved regulatory documents. These specifications provide guidelines to the contractor for handling the buried solid waste or contaminated media, and how to track and properly dispose of the material and includes provisions for the contractor to implement to ensure that the engineering control areas that are breached will be properly repaired/replaced.

E Sciences has also developed a health and safety plan (HASP) and air monitoring plan (AMP) to be implemented by the contractor during construction. The AMP outlines air monitoring to be conducted during construction to monitor the ambient air and threshold values that may trigger personal protective equipment and/or corrective actions to reduce emissions. The AMP was developed for the specific park conditions and proposed construction based on general guidelines previously approved by DERM for construction activities in multiple parks across the city.

The City has requested that E Sciences provides air monitoring, field documentation and regulatory reporting associated with the implementation of EC repairs at the Site and installation of the playground and exercise equipment area. As part of this scope, E Sciences will oversee and certify the installation of the EC across affected areas.

Contract Budget/Fees: $378,048

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME E Sciences, Incorporated	(2) FIRM LOCATION *(City and State)* Fort Lauderdale & Miami, Florida	(3) ROLE Prime Consultant
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL (From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)	28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)									
		1	2	3	4	5	6	7	8	9	10
Justin Freedman, MS, CA	Project Manager/ Senior Scientist	X	X	X		X		X		X	
Nadia Locke, PE, LEED AP	QA/QC / Senior Engineer	X	X	X		X	X	X	X	X	X
Brian Voelker, MS, CA	Senior Scientist	X	X	X	X	X		X		X	
Patrick Shearer, PE	Senior Engineer					X	X	X	X		

29. EXAMPLE PROJECTS KEY

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Coconut Creek Tree Inventory, Coconut Creek, Broward County, Florida	6	Districtwide NPDES Permit Compliance Contract, FDOT District Four, Broward, Palm Beach, Martin, St. Lucie and Indian River Counties
2	General Environmental Engineering Consulting Services, City of Fort Lauderdale, Broward County, Florida	7	Wynwood NW 3rd Avenue Woonerf, City of Miami, Miami-Dade County, Florida
3	Pompano Beach CRA, Continuing Contract for Environmental Engineering Services to Support Redevelopment Projects, Pompano Beach, Broward County, Florida	8	Continuing Engineering Services, Islamorada, Village of Islands, Monroe County, Florida
4	Environmental Engineering Continuing Services City of Doral, Miami-Dade County, Florida	9	General Environmental Engineering Services, City of North Miami Beach, Miami-Dade County, Florida
5	Environmental Engineering Continuing Services, City of Miami Beach, Miami-Dade County, Florida	10	Miami Miscellaneous Environmental Engineering Services, City of Miami, Miami-Dade County, Florida

H. ADDITIONAL INFORMATION

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

E Sciences is an environmental, engineering and ecological consulting firm providing a wide range of services to clients in both the public and private sectors. Our company was formed in 2000, bringing together a team of professional and technical staff members with a long history of successfully executing projects throughout Florida and the Southeastern United States. Our fundamental philosophy is based on responsiveness, expertise and creating value for our clients.

Environmental Consulting Services

E Sciences provides a full range of environmental services to identify, remediate and resolve issues related to contamination of soil and groundwater. We have extensive experience investigating and remediating surface and subsurface environments for a variety of contaminants from petroleum, chlorinated solvents and other hazardous materials and are intimately familiar with geological and hydrogeological systems in Florida and the Southeastern United States. Our environmental staff includes registered professional engineers and geologists, and degreed scientists whose expertise provides a comprehensive combined set of skills that support our clients' goals through and even beyond the planning, design and construction phases of projects.

Engineering Consulting Services

Our engineering staff includes professionally licensed engineers with degrees in civil and environmental engineering. E Sciences provides a broad scope of engineering services related to water quality management, stormwater management, transportation support, infrastructure management, hydrologic restoration and preservation, watershed planning and FEMA floodplain management and permitting, and permitting and compliance. We assist clients with major regulatory programs such as NPDES Phase I and Phase II permitting and compliance, Clean Water Act services, and numerous other specialty areas. E Sciences professionals are skilled in facilities engineering, including transaction support services such as Property Condition Surveys and Development Feasibility Studies for industrial and commercial land uses.

Ecological Consulting Services

Our ecological staff includes full-time senior environmental scientists with degrees in soil and water science, ecology, biology, earth science, urban forestry and marine biology. E Sciences' primary ecological services include wetland delineation and evaluation; wildlife surveys and permitting; habitat assessments and conversation plans; marine and coastal ecology; wetland and habitat restoration; urban forestry and tree inventories; land management, and natural systems analysis. We have extensive experience permitting projects with the USACE, U.S. Fish & Wildlife Service, FDEP, Water Management Districts and local municipalities throughout Florida.

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE	32. DATE
	July 1, 2020

33. NAME AND TITLE

Peter K. Partlow, P.E., President

ARCHITECT ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any): RFQ 20-07-01

PART II – GENERAL QUALIFICATIONS

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

2a. FIRM (OR BRANCH OFFICE) NAME: E Sciences, Incorporated – Miami, Florida		3. YEAR ESTABLISHED: 2000	4. DUNS NUMBER: 001998678
2b. STREET: 1021 Ives Dairy Road, Ste #216		5. OWNERSHIP	
		a. TYPE: Corporation	
2c. CITY: Miami	2d. STATE: Florida	2e. ZIP CODE: 33179	b. SMALL BUSINESS STATUS: Small Business
6a. POINT OF CONTACT NAME AND TITLE: Justin Freedman, MS, Project Manager		7. NAME OF FIRM *(If block 2a is a branch office)*: E Sciences, Incorporated 34 East Pine Street Orlando, FL 32801	
6b. TELEPHONE NUMBER: (786) 517-2632	6c. E-MAIL ADDRESS: jfreedman@esciencesinc.com		
8a. FORMER FIRM NAME(S) *(If any)*: N/A		8b.YR ESTABLISHED: N/A	8c. DUNS NUMBER: N/A

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees (1) FIRM	c. No. of Employees (2) BRANCH
02	Administrative	10	
12	Civil Engineer	3	2
19	Ecologist	5	
23	Environmental Engineer	10	1
24	Environmental Scientist	21	
29	GIS Specialist	4	
30	Geologist	3	1
58	Technicians/Interns	5	
53	Scheduler	1	
	Total	62	4

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

a. Profile Code	b. Experience	c. Revenue Index Number (see below)
C18	Cost Estimating	2
E01	Ecological/Archeological Investigations	3
E09	Environmental Impact Studies/Assessments or Statements	4
E10	Environmental and Natural Resource Mapping	1
E11	Environmental Planning	2
E12	Environmental Remediation	2
E13	Environmental Testing and Analysis	1
G04	Geographic Info Systems Development/Analysis	1
H07	Highways, Streets, Airfield Paving, Parking Lots	3
H11	Housing (Residential, Multi-Family)	1
I03	Industrial Waste Treatment	1
M06	Mining and Mineralogy	1
U02	Urban Renewal; Community Development	1
S05	Soils & Geologic Studies, Foundations	1
S13	Storm Water Handling & Facilities	1
W02	Water Resources, Hydrology, Groundwater	1

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

(Insert revenue index number shown at right)

a. Federal Work	0
b. Non-Federal Work	7
c. Total Work	7

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

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

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE

b. DATE: July 1, 2020

c. NAME AND TITLE: Peter K. Partlow, P.E., President

Tab F

Firm References and Similar Work Completed

Tab F Firm References and Similar Work Completed

Reference 1

a. Client Name, Address, Contact, Phone and valid e-mail address

City of Fort Lauderdale
Larry Teich
100 N. Andrews Avenue, Fort Lauderdale, Florida 33301
Tel. (954) 828-7844 Email. lteich@fortlauderdale.gov

b. Project Title

General Environmental Engineering Consulting Services

c. Description of work performed, including the project location

E Sciences has provided a variety of services under our Fort Lauderdale contracts.
See our project description in the SF 330 for details.

d. Year completed

2011 – Ongoing

e. Contract Number of the agreement made between your firm and local municipalities, with a scope similar to this RFQ

E Sciences was just awarded our third consecutive contract, RFQ No. 12355-106.
We have worked under a variety of task work orders under this contract and previous contracts

Key Staff

Justin Freedman, Nadia Locke and Brian Voelker have worked under this contract.

Reference 2

a. Client Name, Address, Contact, Phone and valid e-mail address

City of Miami Beach
Elizabeth Wheaton
1700 Convention Center Drive, Miami Beach, Florida 33139
Tel. (305) 673-7010 Email. elizabethwheaton@miamibeachfl.gov

b. Project Title

Environmental Engineering Continuing Services

c. Description of work performed, including the project location

E Sciences has provided a variety of services under our Fort Lauderdale contracts.
See our project description in the SF 330 for details.

d. Year completed

2011 – Ongoing

e. Contract Number of the agreement made between your firm and local municipalities, with a scope similar to this RFQ

Our latest contract is RFQ 2014-346-YG.
We have worked under a variety of task work orders under this contract and previous contracts.

Key Staff

Justin Freedman, Nadia Locke, Patrick Shearer and Brian Voelker have worked under this contract

Reference 3

a.	Client Name, Address, Contact, Phone and valid e-mail address
	City of Doral Dulce Pantaleon 8401 NW 53 Terrace, Doral, Florida 33166 Tel. (305) 593-6740 Ext. 6010 Email. dulce.pantaleon@cityofdoral.com
b.	Project Title
	Continuing Professional Services Agreement
c.	Description of work performed, including the project location
	E Sciences has provided a variety of services under our Fort Lauderdale contracts. See our project description in the SF 330 for details.
d.	Year completed
	2014 – Ongoing
e.	Contract Number of the agreement made between your firm and local municipalities, with a scope similar to this RFQ
	E Sciences supports the City through two subcontracts under the contract RFP 201-21. We have worked under a variety of task work orders under this contract and previous contracts
	Key Staff
	Justin Freedman, Nadia Locke and Brian Voelker have worked under this contract

E Sciences is proposing no subconsultants for this contract.

Tab G

Corporate Standing and Authorized Signatory

Tab G Corporate Standing and Authorized Signatory

E Sciences is in good standing and James S. Bassett, PE is an Authorized Signatory to sign bids, proposals, negotiate and/or sign contracts, agreements, amendments, and related documents to which E Sciences will be duly bound. Below is a copy of our State Certificate of good standing from the Division of Corporations that lists the officers of the company.

Sunbiz.org Division of Corporations
an official State of Florida website

Department of State / Division of Corporations / Search Records / Search by Entity Name /

Detail by Entity Name

Florida Profit Corporation
E SCIENCES, INCORPORATED

Filing Information

Document Number	P00000081584
FEI/EIN Number	59-3667002
Date Filed	08/29/2000
State	FL
Status	ACTIVE
Last Event	AMENDMENT
Event Date Filed	02/09/2011
Event Effective Date	NONE

Principal Address

34 EAST PINE ST
ORLANDO, FL 32801

Changed: 09/29/2009

Mailing Address

34 EAST PINE ST
ORLANDO, FL 32801

Changed: 09/29/2009

Registered Agent Name & Address

BASSETT, JAMES S
34 E. PINE STREET
ORLANDO, FL 32801

Name Changed: 01/05/2005

Address Changed: 07/14/2009

Officer/Director Detail

Name & Address

Title PTD

PARTLOW, PETER K
34 E. PINE STREET
ORLANDO, FL 32801

Title VSD

BASSETT, JAMES S
34 E. PINE STREET
ORLANDO, FL 32801

Annual Reports

Report Year	Filed Date
2018	01/02/2018
2019	01/10/2019
2020	01/06/2020

Document Images

01/06/2020 -- ANNUAL REPORT	View image in PDF format
01/10/2019 -- ANNUAL REPORT	View image in PDF format
01/02/2018 -- ANNUAL REPORT	View image in PDF format
01/05/2017 -- ANNUAL REPORT	View image in PDF format
01/19/2016 -- ANNUAL REPORT	View image in PDF format
02/04/2015 -- ANNUAL REPORT	View image in PDF format
01/02/2014 -- ANNUAL REPORT	View image in PDF format
01/04/2013 -- ANNUAL REPORT	View image in PDF format
01/19/2012 -- ANNUAL REPORT	View image in PDF format
02/09/2011 -- Amendment	View image in PDF format
01/31/2011 -- ANNUAL REPORT	View image in PDF format
01/08/2010 -- ANNUAL REPORT	View image in PDF format
07/14/2009 -- Reg. Agent Change	View image in PDF format
03/04/2009 -- ANNUAL REPORT	View image in PDF format
02/01/2008 -- ANNUAL REPORT	View image in PDF format
04/16/2007 -- ANNUAL REPORT	View image in PDF format
01/31/2006 -- ANNUAL REPORT	View image in PDF format
01/05/2005 -- ANNUAL REPORT	View image in PDF format
01/09/2004 -- ANNUAL REPORT	View image in PDF format
01/21/2003 -- ANNUAL REPORT	View image in PDF format
05/05/2002 -- ANNUAL REPORT	View image in PDF format
05/02/2001 -- ANNUAL REPORT	View image in PDF format
08/29/2000 -- Domestic Profit	View image in PDF format

Florida Department of State, Division of Corporations

Tab H

Forms and Attachments

Tab H Forms and Attachments

E Sciences has completed and fully executed the following forms and attachments.

- Affidavit Forms
  - Non-Collusion Affidavit
  - Public Entity Crimes
  - Equal Opportunity/Affirmative Action
  - Conflict of Interest
  - Dispute Disclosure
  - Anti-Kickback Affidavit
  - Contractor Anti-Boycott Certification

- Respondent Submittal Forms
  - Request for Qualifications
  - Acknowledgement Form
  - Required Forms
  - Acknowledgement of Addenda
  - Respondent Submittal Form

E Sciences Current Certificate(s) of Insurance (for Proposal Purposes only) follows the signed forms

Firm licenses were provided in Tab E of this submittal.

NON-COLLUSION AFFIDAVIT

City of Sunny Isles Beach
18070 Collins Avenue
Sunny Isles Beach, FL 33160
Telephone: (305) 947-0606 Fax: (305) 949-3113

STATE OF FLORIDA)
)
COUNTY OF Orange)

The undersigned being first duly sworn as provided by law, deposes, and says:

This Affidavit is made with the knowledge and intent that it is to be filed with the City of Sunny Isles Beach City Commission and that it will be relied upon by said County, in any consideration which may give to and any action it may take with respect to this Bid.

The undersigned is authorized to make this Affidavit on behalf of,

E Sciences, Incorporated / James S. Bassett, PE
(Name of Corporation, Partnership, Individual, etc.)

a, Corporation, formed under the laws of Florida
(Type of Business) (State)

of which he is Vice President.
(Sole Owner, Partner, President, etc.)

Neither the undersigned nor any person, firm, or corporation named in above Paragraph 10.2, nor anyone else to the knowledge of the undersigned, have themselves solicited or employed anyone else to solicit favorable action for this Bid by the City, also that no head of any department or employee therein, or any officer of the City of Sunny Isles Beach, Florida is directly interested therein.

This Bid is genuine and not collusive or a sham; the person, firm or corporation named above in Paragraph 10.2 has not colluded, conspired, connived or agreed directly or indirectly with any proposers or person, firm or corporation, to put in a sham Bid, or that such person, firm or corporation, shall refrain from Bidding, and has not in any manner, directly or indirectly, sought by agreement or collusion, or communication or conference with any person, firm or corporation, to fix the prices of said Bid or Bids of any other proposers; and all statements contained in the Bid or Bids described above true; and further; neither the undersigned, nor the person, firm or corporation named above in Paragraph 10.2, has directly or indirectly submitted said Bid or the contents thereof, or divulged information or data relative thereto, to any association or to any member or agent thereof.

AFFIANT'S NAME

James S. Bassett, PE / Vice President
AFFIANT'S TITLE

TAKEN, SWORN AND SUBSCRIBED TO BEFORE ME this 4th day of August, 2020

Personally Known ✓ or Produced Identification _____;

Type of identification _____

(Affix seal here)

SARAH WALCOTT
Commission # GG 205132
Expires June 9, 2021
Bonded Thru Troy Fain Insurance 800-385-7019

Sarah Walcott
NOTARY PUBLIC (name printed or typed)

PUBLIC ENTITY CRIMES

City of Sunny Isles Beach
18070 Collins Avenue
Sunny Isles Beach, FL 33160
Telephone: (305) 947-0606 Fax: (305) 949-3113

SWORN STATEMENT PURSUANT TO SECTION 287.133(3)(a) FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES

PUBLIC ENTITY CRIMES

Pursuant to the provisions of paragraph (2) (a) of Section 287.133, Florida State Statutes - "A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a Bid on a Contract to provide any goods or services to a public entity, may not submit a Bid on a Contract with a public entity for the construction or repair of a public building or public Work, may not submit Bids on leases of real property to a public entity, may not be awarded to perform Work as a Contractor, supplier, Sub-Contractor, or Consultant under a Contract with any public entity, and may not transact business with any public entity in excess of the threshold amount Category Two of Sec. 287.017, FS for thirty six months from the date of being placed on the convicted vendor list".

THIS FORM MUST BE SIGNED AND SWORN TO IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICIAL AUTHORIZED TO ADMINISTER OATHS.

11.1. This sworn statement is submitted to City of Sunny Isles Beach

by James S. Bassett, PE, Vice President
[print individual's name and title]

for E Sciences, Incorporated
[print name of entity submitting sworn statement]

whose business address is:
34 E. Pine Street, Orlando, Florida

and (if applicable) its Federal Employer Identification number (FEIN) is 59-3667002.
(If the entity had no FEIN, include the Social Security Number of the individual signing this sworn statement:_____.)

11.2. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including, but not limited to, any Bid or Contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.

11.3. I understand that "convicted" or "conviction" as defined in Para. 287.133(1)(b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trail court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, non-jury trial, or entry of a plea of guilty or nolo contendere.

11.4. I understand that an "affiliate" as defined in Para. 287.133(1)(a), Florida Statutes, means:

a.) predecessor or successor of a person convicted of a public entity crime; or

b.) Any entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executors, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair

market value under an arm's length agreement, shall be a prime facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.

11.5. I understand that a "person" as defined in Para. 287.133(1)(e), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding Contract and which Bids or applies to Bid on Contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "persons" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of any entity.

11.6. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. (Indicate which statement applies.)

__X__ Neither the entity submitting this sworn statement, nor any of it's officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, nor any affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

____ The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

____ The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989. However, there has been a subsequent proceeding before a Hearing Officer of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Hearing Officer of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Hearing Officer determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted vendor list. (Attach a copy of the final order.)

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR THE PUBLIC ENTITY IDENTIFIED IN PARAGRAPH 11.1 (ONE) ABOVE IS FOR THAT PUBLIC ENTITY ONLY AND, THAT THIS FORM IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THE PUBLIC ENTITY PRIOR TO ENTERING INTO A CONTRACT IN EXCESS OF THE THRESHOLD AMOUNT PROVIDED IN SECTION 287.017, FLORIDA STATUTES, FOR CATEGORY TWO OF ANY, CHANGE IN THE INFORMATION CONTAINED IN THIS FORM.

By: _____
(Signature)
James S. Bassett, PE
(Printed Name)
Vice President
(Title)

Sworn to and subscribed before me this 4th day of August, 2020, by James Bassett.

(AFFIX NOTARY STAMP HERE)

SARAH WALCOTT
Commission # GG 205132
Expires June 9, 2021
Bonded Thru Troy Fain Insurance 800-385-7019

Sarah Walcott

Signature: Sarah Walcott

Personally Known X OR Produced Identification _____

EQUAL OPPORTUNITY / AFFIRMATIVE ACTION

City of Sunny Isles Beach
18070 Collins Avenue
Sunny Isles Beach, FL 33160
Telephone: (305) 947-0606 Fax: (305) 949-3113

EQUAL OPPORTUNITY/AFFIRMATIVE ACTION STATEMENT

The contractors and all subcontractors hereby agree to a commitment to the principles and practices of equal opportunity in employment and to comply with the letter and spirit of federal, state, and local laws and regulations prohibiting discrimination based on race, color, religion, national region, sex, age, handicap, marital status, and political affiliation or belief.

Signed: _____

Title: James S. Bassett, PE, Vice President

Firm: E Sciences, Incorporated

Address: 34 E. Pine Street

Orlando, Florida 32801

CONFLICT OF INTEREST

City of Sunny Isles Beach
18070 Collins Avenue
Sunny Isles Beach, FL 33160
Telephone: (305) 947-0606 Fax: (305) 949-3113

CONFLICT OF INTEREST STATEMENT

The award of any contract hereunder is subject to the provisions of Chapter 112, Florida State Statutes. Proposers must disclose with their Bids, the name of any officer, director, partner, associate or agent who is also an officer or employee of the City of Sunny Isles Beach or its agencies.

STATE OF FLORIDA
COUNTY OF Orange

BEFORE ME, the undersigned authority, personally appeared James S. Bassett, PE, who was duly sworn, deposes, and states:

18.1. I am the Vice President of E Sciences, Incorporated with a local office in Miami and principal office in Orlando.

18.2. The above named entity is submitting a Bid for the City of Sunny Isles Beach, RFQ No. 20-07-01 described as: RFQ Professional services. The Affiant has made diligent inquiry and provides the information contained in this Affidavit based upon his own knowledge.

18.3 The Affiant states that only one submittal for the above Bid is being submitted and that the above named entity has no financial interest in other entities submitting Bids for the same project.

18.4 Neither the Affiant nor the above named entity has directly or indirectly entered into any agreement, participated in any collusion, or otherwise taken any action in restraints of free competitive pricing in connection with the entity's submittal for the above Bid. This statement restricts the discussion of pricing data until the completion of negotiations if necessary and execution of the Contract for this project.

18.5 Neither the entity nor its affiliates, nor any one associated with them, is presently suspended or otherwise ineligible from participation in contract letting by any local, State, or Federal Agency.

18.6 Neither the entity, nor its affiliates, nor any one associated with them have any potential conflict of interest due to any other clients, contracts, or property interests for this project.

18.7 I certify that no member of the entity's ownership or management is presently applying for any employee position or actively seeking an elected position with the City of Sunny Isles Beach.

18.8 I certify that no member of the entity's ownership or management, or staff has a vested interest in any aspect of the City of Sunny Isles Beach.

18.9 In the event that a conflict of interest is identified in the provision of services, I, on behalf of the above named entity, will immediately notify the City of Sunny Isles Beach.

Dated this 4th day of August, 2020.

AFFIANT

James Bassett, Vice President
Print or Type Name and Title

Sworn to and subscribed before me this 4th day of August, 2020.

☑ Personally Known ✓ OR

☐ Produced Identification _____; Type of Identification _____

Sarah Walcott

NOTARY PUBLIC STATE OF FLORIDA

Sarah Walcott

SARAH WALCOTT
Commission # GG 205132
Expires June 9, 2021
Bonded Thru Troy Fain Insurance 800-385-7019

DISPUTE DISCLOSURE

City of Sunny Isles Beach
18070 Collins Avenue
Sunny Isles Beach, FL 33160
Telephone: (305) 947-0606 Fax: (305) 949-3113

DISPUTE DISCLOSURE FORM

Answer the following questions by placing a "X" after "Yes" or "No". If you answer "Yes", please explain in the space provided, or on a separate sheet attached to this form.

19.1. Has your firm or any of its officers, received a reprimand of any nature or been suspended by the Department of Professional Regulations or any other regulatory agency or professional associations within the last five (5) years?

YES _____ NO ___X___

19.2. Has your firm, or any member of your firm, been declared in default, terminated or removed from a contract or job related to the services your firm provides in the regular course of business within the last five (5) years?

YES _____ NO ___X___

19.3. Has your firm had against it or filed any requests for equitable adjustment, contract claims, Bid protests, or litigation in the past five (5) years that is related to the services your firm provides in the regular course of business?

YES _____ NO ___X___ If yes, state the nature of the request for equitable adjustment, contract claim, litigation, or protest, and state a brief description of the case, the outcome or status of the suit and the monetary amounts of extended contract time involved.

I hereby certify that all statements made are true and agree and understand that any misstatement or misrepresentation of falsification of facts shall be cause for forfeiture of rights for further consideration of this Bid for the City of Sunny Isles Beach.

E Sciences, Incorporated
Firm

8/4/2020
Date

Authorized Signature

James S. Bassett, PE, Vice President
Print or Type Name and Title

ANTI-KICKBACK

City of Sunny Isles Beach
18070 Collins Avenue
Sunny Isles Beach, FL 33160
Telephone: (305) 947-0606 Fax: (305) 949-3113

ANTI-KICKBACK AFFIDAVIT

STATE OF FLORIDA)
)
COUNTY OF Orange)

I, the undersigned, hereby duly sworn and deposed say that no portion of this sum herein Bid will be paid to any employees of the City of Sunny Isles Beach or its elected officials as a commission, kickback, reward or gift, directly or indirectly by me or any member of my firm or by an officer of the corporation.

By: _____

Title: James S. Bassett, PE, Vice President

The foregoing instrument was acknowledged before me this 4th day of August, 2020, by James Bassett [name of person], as Vice President [type of authority], for E Sciences, Incorporated [name of party on behalf of whom instrument was executed].

AFFIX NOTARY STAMP HERE:

SARAH WALCOTT
Commission # GG 205132
Expires June 9, 2021
Bonded Thru Troy Fain Insurance 800-385-7019

_____
Notary Public – State of Florida

Sarah Walcott
Print or Type Commissioned Name

Personally Known X OR Produced Identification _____
Type of Identification Produced _____

CONTRACTOR ANTI-BOYCOTT CERTIFICATION

[PURSUANT TO FLORIDA STATUTE § 215.4725]

I, James S. Bassett, PE, on behalf of E Sciences, Incorporated,
Print Name Company Name

certifies that E Sciences, Incorporated does not:
Company Name

1. Participate in a boycott of Israel; and
2. Is not on the Scrutinized Companies that Boycott Israel list; and
3. Is not on the Scrutinized Companies with Activities in Sudan List; and
4. Is not on the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List; and
5. Has not engaged in business operations in Cuba or Syria.

Signature

James S. Bassett, PE, Vice President
Title

8/4/2020
Date

DELIVER TO:
City of Sunny Isles Beach
City Clerk
18070 Collins Avenue
Sunny Isles Beach, FL 33160

REQUEST FOR QUALIFICATIONS SECTION 6 RESPONDENT SUBMITTAL FORMS

OPENING: 2:30 P.M. Tuesday, August 11, 2020

NOTE: City of Sunny Isles Beach is exempt from all taxes (Federal, State, and Local). Tax Exemption Certificate furnished upon request.

Issued by:	Purchasing Agent **Genesis Cuevas**	Date Issued: **Wednesday, July 8, 2020**	This Qualification Submittal **Consists of all required forms, including SF330, Questionnaires, Acknowledgements and Affidavits**

Submissions are subject to the Terms and Conditions of this Request for Qualifications and the accompanying Submittal. Such other contract provisions, specifications, drawings or other data as are attached or incorporated by reference in the Submittal, will be received at the office of the City Clerk at the address shown above until the above stated time and date, and at that time, publicly opened for furnishing services described in the accompanying Submittal Requirement.

RFQ No. 20-07-01

Continuing Contract for Professional Services CCNA

Firm Name E Sciences, Incorporated

Commodity Code(s): Environmental Engineering: A10, C07, C15 , C18 , D08, E01, E09, E10, E11, E12, E13, G04, H07, H08, H11, I03, I06, L03, M06, P01, P06, P13, R04, R11,S05, S07, S11, S13, U02, W02, W03

RETURN ONE ORIGINAL AND FOUR COPIES OF QUALIFICATION SUBMITTAL PAGES AND AFFIDAVITS

FAILURE TO SIGN PAGE 38 OF SECTION 6 QUALIFICATION SUBMITTAL WILL RENDER YOUR SUBMISSION NON-RESPONSIVE

6.1 ACKNOWLEDGEMENT FORM

NAME OF COMPANY:

E Sciences, Incorporated
(Name of company submitting RFQ)

CHECK CATEGORY (CATEGORIES) YOU ARE APPLYING FOR:

1- ARCHITECTS __

2- CIVIL ENGINEERS__

3- ELECTRICAL ENGINEERS___

4- SURVEYORS AND MAPPING__

5- LEAK DETECTION STUDIES__

6- MECHANICAL, HVAC & PLUMBING ENGINEERS___

7 - GEOTECHNICAL___

8 – STRUCUTRAL ENGINEERS___

9 – ENVIRONMENTAL ENGINEERS__X_

10. CONSTRUCTION ENGINEERING AND INSPECTION (CEI) SERVICES____

REQUIRED FORMS

PRIME FIRM

Role	Name of Individual Assigned to Project	Number of Years' Experience	Education, Degree
Principle-in-Charge:	James S. Bassett, PE	27	BS, Civil Engineering
Project Manager	Justin Freedman, MS	18	MS, Marine Biology BA, Biology
Asst. Project Manager	Nadia Locke, PE, LEED, AP	32	BS, Materials Science and Engineering
Other Key Member	Brian Voelker, MS	23	MS, Coastal Zone Management, Marine Biology BS, Environmental Studies
Other Key Member	Patrick Shearer, PE	12	BS, Civil Engineering

REFERENCES

Name	Firm Providing Reference	Phone #	Email Address
Larry Teich	City of Fort Lauderdale	(954) 828-7844	lteich@fortlauderdale.gov
Elizabeth Wheaton	City of Miami Beach	(305) 673-7010	elizabethwheaton@miamibeachfl.gov
Dulce Pantaleon	City of Doral	(305) 593-6740	dulce.pantaleon@cityofdoral.com

CITY OF SUNNY ISLES BEACH
18070 Collins Avenue
Sunny Isles Beach, Florida 33160
305.947.0606
www.sibfl.net

ACKNOWLEDGEMENT OF ADDENDA

INSTRUCTIONS: COMPLETE PART I OR PART II, WHICHEVER APPLIES

PART I:

LIST BELOW ARE THE DATES OF ISSUE FOR EACH ADDENDUM RECEIVED IN CONNECTION WITH THIS RFQ

Addendum #1, Dated 7/17/2020

Addendum #2, Dated 7/28/2020

Addendum #3, Dated 8/3/2020

Addendum #4, Dated _____

Addendum #5, Dated _____

Addendum #6, Dated _____

Addendum #7, Dated _____

Addendum #8, Dated _____

PART II:

☐ NO ADDENDUM WAS RECEIVED IN CONNECTION WITH THIS RFQ

FIRM NAME: E Sciences, Incorporated

AUTHORIZED SIGNATURE: _____ **DATE:** 8/4/2020

TITLE OF OFFICER: James S. Bassett, PE, Vice President

RESPONDENT SUBMITTAL FORM
RFQ 20-07-01 Continuing Professional Consulting Services (CCNA)

The undersigned Firm proposes and agrees, if this submission is accepted, to enter into an agreement with the City of Sunny Isles Beach to perform and furnish all Services as specified or indicated in the Contract Documents.

The Firm accepts all of the terms and conditions of this Request for Qualifications. This Bid will remain subject to acceptance for 90 days after the day of Bid opening. The Firms agrees to sign and submit the Agreement and other documents as required by the Bidding Requirements within ten days after the date of the City's Notice of Award.

In submitting this response, the Firm represents, as more fully set forth in the Agreement, that:

- The Firm has familiarized himself/herself with the nature and extent of the Contract Documents, Work, site, locality, and all local conditions and Law and Regulations that in any manner may affect cost, progress, performance, or furnishing of the Work.

- The Firm has studied carefully all reports and drawings of subsurface conditions and drawings of physical conditions.

- The Firm has given the City written notice of all conflicts, errors, discrepancies that it has discovered in the Contract Documents and the written resolution thereof by City is acceptable to the Firm.

- This solicitation is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization, or corporation; the Firm has not directly or indirectly induced or solicited any other Firms to submit a false or sham Bid; the Firm has not solicited or induced any person, firm or corporation to refrain from Bidding; and Firm has not sought by collusion to obtain for itself any advantage over any other Firms or over the City.

The City and the successful Firm will establish completion times for the services described in this Request for Qualifications and the successful Firm agrees that the services will be completed within the time frames agreed upon and stipulated in the individual Notice to Proceed.

Firm Name:

E Sciences, Incorporated

Street Address:

34 E. Pine Street, Orlando, Florida 32801

Mailing Address (if different):

Same as above

Telephone No. 407.481.9006 Fax No. 407.481.9627

Email Address: jbassett@esciencesinc.com FEIN No. 59-3667020-2

* ***"By signing this document the Responder agrees to all Terms***

Signature:

(Signature of authorized agent)

Print Name: James S. Bassett, PE

Title: Vice President

THE EXECUTION OF THIS FORM CONSTITUTES THE UNEQUIVOCAL OFFER OF FIRM TO BE BOUND BY THE TERMS OF ITS SUBMISSION. FAILURE TO SIGN THIS SOLICITATION WHERE INDICATED ABOVE BY AN AUTHORIZED REPRESENTATIVE SHALL RENDER THE SUBMISSION NON-RESPONSIVE. THE CITY MAY, HOWEVER, IN ITS SOLE DISCRETION, ACCEPT ANY SUBMISSION THAT INCLUDES AN EXECUTED DOCUMENT, WHICH UNEQUIVOCALLY BINDS THE FIRM TO THE TERMS OF ITS OFFER.

ESCIE-1 OP ID: BB

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 11/04/2019

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 have ADDITIONAL INSURED provisions or 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 JCJ Insurance Agency 2208 Hillcrest Street Orlando, FL 32803 Erin K. Kelley 321-445-1117	CONTACT NAME: Kristin McIntosh PHONE (A/C, No, Ext): 321-445-1117 FAX (A/C, No): 321-445-1076 E-MAIL ADDRESS: certs@jcj-insurance.com
INSURED E Sciences, Inc 34 E. Pine St Orlando, FL 32801	INSURER A : Continental Casualty Company — NAIC # 20443 INSURER B : Old Dominion Insurance Co. — 40231 INSURER C : The Zenith Insurance Co. — 13269 INSURER D : Scottsdale Insurance Company — 41297 INSURER E : INSURER F :

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

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE / X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY / X PRO-JECT / LOC OTHER:			B6074584025	11/02/2019	11/02/2020	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 2,000,000 $ 300,000 $ 10,000 $ 2,000,000 $ 4,000,000 $ 4,000,000
B	AUTOMOBILE LIABILITY X ANY AUTO OWNED AUTOS ONLY / SCHEDULED AUTOS HIRED AUTOS ONLY / NON-OWNED AUTOS ONLY			B1T6941T	11/02/2019	11/02/2020	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ $ $
A	X UMBRELLA LIAB / X OCCUR EXCESS LIAB / CLAIMS-MADE DED / X / RETENTION $ 10,000			B6074584039	11/02/2019	11/02/2020	EACH OCCURRENCE AGGREGATE	$ 3,000,000 $ 3,000,000
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y / N If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		Z133790603	11/02/2019	11/02/2020	X PER STATUTE / OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ 1,000,000 $ 1,000,000 $ 1,000,000
D	Professional Liab			BK1076896	11/02/2019	11/02/2020	Per Claim	2,000,000
D	Pollution Liab			BK1076896	11/02/2019	11/02/2020	Aggregate	3,000,000

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

CERTIFICATE HOLDER

FORPROP

For Proposal Purposes

CANCELLATION

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

AUTHORIZED REPRESENTATIVE

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