LEVY COUNTY BOARD OF COUNTY COMMISSIONERS

Request for Qualifications (RFQ) for a Comprehensive Vulnerability Assessment for Levy County, FL

DECEMBER 11, 2023

Dewberry

ELECTRONIC

SUBMITTED BY
Dewberry Engineers Inc.
800 North Magnolia Avenue
Suite 1000
Orlando, FL 32803-3251
407.843.5120

SUBMITTED TO
Levy County Board of County Commissioners
Procurement Department
P.O. Box 310
310 School Street
Bronson, FL 32621
352.486.5218

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TAB 1: Cover Page and Introductory Letter

LEVY COUNTY BOARD OF COUNTY COMMISSIONERS
PROCUREMENT DEPARTMENT
P.O. BOX 310
310 SCHOOL STREET
BRONSON, FL 32621
PHONE: (352) 486-5218 EXT. 2
FAX: (352) 486-5167
EMAIL: TRETHEWAY-ALI@LEVYCOUNTY.ORG

COVER PAGE

RFQ_2024_001 – COMPREHENSIVE VULNERABILITY ASSESSMENT

LAST DAY FOR QUESTIONS: 12/4/2023, 3:00 PM	**DUE DATE AND TIME: 12/11/2023, 2:00 PM**

SUMMARY OF SCOPE: Levy County is seeking to solicit qualifications from qualified respondents, for consideration in performing a comprehensive vulnerability assessment that is scientifically informed, comprehenisve, and focused on actionable outcomes. The vulnerability assessment must be developed in accordance with Section 380.093 Florida Statutes and Florida Rule 62S-8 addressing tidal, future high tide, storm, rainfall-induced, and compound flooding, and a minimum of two (2) local Sea Level Rise ("SLR") scenarios, planning horizons 2040 and 2070, and SLR data.

SUBMITTAL OF BID: Levy County only accepts electronic submittals through "E-Bidding" on the DemandStar platform www.DemandStar.com. In order to submit a bid in response to this solicitation the bidder must be registered with DemandStar.

For questions relating to the RFQ, contact Ali Tretheway, Procurement Coordinator at tretheway-ali@levycounty.org.

ITEMS THAT MUST BE INCLUDED WITH PROPOSAL: Submitting an incomplete document may deem the proposal non-responsive, causing rejection. Please check each box for each item submitted with proposal. Prior to submitting my proposal, I have verified that all forms are attached and are considered as part of my proposal:

- ☐ COVER PAGE
- ☐ INTRODUCTORY LETTER
- ☐ COMPANY, STAFF & TEAM QUALIFICATIONS
- ☐ RELATED EXPERIENCE
- ☐ CURRENT AND PROJECTED WORKLOADS
- ☐ DBE/SBE/MBE/WBE CERTIFICATION
- ☐ APPROACH TO SERVICES
- ☐ REQUIRED AND OPTIONAL FORMS

Company Name: Dewberry Engineers Inc.
Name: Jerry Sparks, PE
Email Address (Required): jsparks@dewberry.com
Address: 8401 Arlington Boulevard, Fairfax, VA, 22031
Mailing Address (if Different): _____
Telephone: 703.849.0476 FEIN: 13-0746510

By signing this form, I acknowledge I have read and understand, and my firm complies with all General Conditions and requirements set forth herein:
SIGNATURE OF AUTHORIZED REPRESENTATIVE: Jerry W. Sparks
DATE SUBMITTED: 12/7/2023

THIS DOCUMENT MUST BE COMPLETED AND RETURNED WITH YOUR SUBMITTAL

Dewberry

Dewberry Engineers Inc.
800 North Magnolia Avenue, Suite 1000
Orlando, FL 32803-3251

407.843.5120
407.649.8664 fax
www.dewberry.com

December 11, 2023

Attn: Ali Tretheway
Project Coordinator
Levy County Board of County Commissioners
Procurement Department
P.O. Box 310
310 School Street
Bronson, FL 32621

Subject: Request for Qualifications RFQ_2024_001 – Levy County Comprehensive Vulnerability Assessment

Dear Ali Tretheway;

Dewberry Engineers Inc. (Corporation) is please to submit a proposal for the Levy County Comprehensive Vulnerability Assessment. Levy County is developing the Comprehensive Vulnerability Assessment during a prime-time period to focus efforts on combating sea-level rise, natural disasters, and other climate-related challenges. The Dewberry team has the passion and experience to guide the County and maximize the potential of the Vulnerability Assessment. Our team has completed over 100 Vulnerability Assessments (VAs) within the past 10 years, including seven completed VAs in the State of Florida. This experience includes community-centric studies producing actionable resilience plans to inform communities on their exposure and risk. These efforts have a strong track record of implementation. We facilitate this through our long-standing relationships with funding agencies that turn identified actions into reality.

As Levy County embarks on this landmark resilience planning effort, our team appreciates the opportunity to submit this proposal and demonstrate our unique ability to successfully develop your County-wide VA, while helping your staff to strategically plan for a path forward in adaptation planning and project implementation.

We understand that Levy County possesses a unique set of critical assets such as conversation lands, as well as assets in small communities different than those of large urban cities. Our experience in working with other rural and small communities in six counties in the Northwest Florida Region, including coastal communities along the Gulf of Mexico, for over 20 years, uniquely positions our team to customize this study according to those characteristics.

Additionally, our team has experience helping our clients secure funding. Our VA and Adaptation Plan for the City of St. Augustine positioned the City for over **$26M in grant funds** in under four years. Our strong NEPA documentation and loan application helped Polk County Regional Water Cooperative secure a $235M Water Infrastructure Finance and Innovation Act loan. Our strategic partner **Erin L. Deady has secured over $94 million** for local governments in the Resilient Florida program to date.

Thank you for the opportunity to share our qualifications and potentially serve the County on this landmark project. By submission of this proposal, we affirm no conflict of interest.

Sincerely,

Robert Beltran, PE
Principal in Charge
863.345.1470 I rbeltran@dewberry.com

Hannah Hart
Project Manager & **Primary Point of Contact**
321.354.9779 I hhart@dewberry.com

TAB 2: Company, Staff & Team Qualifications

COMPANY, STAFF & TEAM QUALIFICATIONS

Proposed Staff Qualifications and Experience

Dewberry Engineers Inc.

Established in 1956, Dewberry has remained a family-owned business for 66 years. With over 2,000 employees, including a Florida-based Resilience team of modelers, project managers, geospatial analysts, and planners. We have the necessary depth to provide efficient and cost-effective products. Furthermore, our firm houses over 70 Certified Floodplain Managers (CFMs). Dewberry has provided a variety of services to the County for about seven years, and therefore has significant understanding of that County's current infrastructure and needs.

We bring best practices and lessons observed from numerous vulnerability planning efforts. We tailor needs to each community, big or small. This extensive experience allows us to create community-centric products that produce actionable resilience projects and align the best potential funding sources from both state and federal agencies. Listed below are other relevant projects that demonstrate our extensive experience in Flood Mitigation Planning.

- Led the Florida Community Resilience Initiative Sea Vulnerability Assessment and Adaptation Planning Project for the Florida Department of Economic Opportunity covering three Florida communities. The project included the development of flood hazard layers, precipitation analyses, stormwater standards, and policy responses to improve community resilience.
- **Leading four Vulnerability Assessments in the northwest Florida region**, compliant with the current Resilient Florida Grant program, including both inland and coastal exposure and sensitivity Analysis.
- Led the recently completed Washington County Pilot Flooding Assessment, a grant-funded project through the Department of Environmental Protection.
- **Leading a Primary Cooperative Technical Partner Risk Map Program for FEMA and managed the Northwest Florida Water Management District.** This contract has allowed Dewberry to provide over 10 years of direct experience in mapping, modeling, and assessing Flood Risk in the NW Florida region.
- Led the North Carolina statewide Sea Level Rise Impact Study, which assessed possible exposure of the natural community, and critical infrastructure to SLR and evaluated strategies to reduce long-term losses.

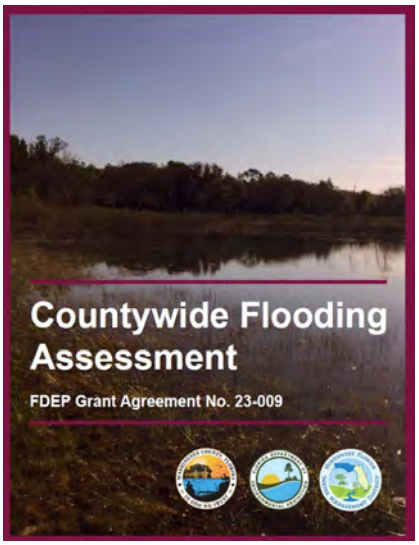


FIGURE 1: Washington County Pilot Flooding Assessment

Erin Deady Law

Erin L. Deady P.A. (ELD PA) has been on the forefront of resiliency planning in Florida as the field has evolved. For the past 12 years, the firm has been a known expert in the fields of planning, sustainability, energy policy, resiliency planning and harmonizing technical, legal and policy approaches to assist local governments with pursuing their resiliency and sustainability goals. **A core service has been securing grant assistance for local governments to further these efforts to plan for a more sustainable, resilient future.**

With ELD PA, the County will receive significant value-added services above and beyond a traditional consulting team because of the firm's work as a professional planning and consulting entity. The firm brings a different perspective to resiliency planning and can assist the County in not only carrying out policy, but actually formulating it through comprehensive plans and codes and within the legislative, administrative and other policy development arenas. The firm has a demonstrated track record with numerous local governments in executing high quality services and delivers high quality work products on time and on budget. The firm provides necessary coordination and communication to ensure a strong work product that will meet the client's objectives.

Erin L. Deady, AICP, Esq., LEED AP is the proposed Deputy Project Manager. Erin has helped local governments all over Florida undertake resiliency planning efforts and has become a subject matter expert in assisting local governments navigate the policy risk associated with climate change. Her professional planning and legal practice specifically targets formulating strategies to address climate challenges through new policy initiatives, comprehensive plans and codes. Listed below are other relevant projects that demonstrate ELD PA's extensive experience in Resilience Planning and Vulnerability Assessments:

- ELD PA has secured over $94 million for local government in Resilient Florida grants just in the last 3 years.
- Martin County Resilience and Watershed Management Plan - ELD PA led the project team consisting of Clearview Geographic, Balmoral Group and Lori Lehr. Work products were completed pursuant to Resilience Planning Grant R1911 and the Resilient and Watershed Management Plan document served as a basis for the creation of the Sea Level Rise Report (2021). ELD PA led the team to conduct outreach activities including a Facebook Live event and develop numerous presentation materials and other work products. ELD PA led the development of the recommendations for the planning effort which included 48 recommendations coalescing County departments, future data collection efforts and modeling activities.
- Monroe County Vulnerability Assessment - ELD PA developed the Resilience Planning Grant R2111 awarded to Monroe County to update its previous Vulnerability Assessment conducted in 2015. ELD PA led the team consisting of Clearview Geographic, OVID, HDR and other subcontractors to perform habitat analysis (one of the few vulnerability assessments to perform that analysis to date) including analysis of shorelines, all critical assets and the development of Adaptation Action Areas which the County anticipates adopting alter this year. ELD PA led multiple public outreach events and Commission briefings on the project. Work products were completed on time and on budget.
- Monroe County Roadway Vulnerability Analysis and Capital Plan - ELD PA's role on the Roadway Vulnerability Assessment has been to develop policy and strategy related to level of service determinations and potential special assessment methodologies. ELD PA has conducted significant policy analysis for the project which has shaped the transparency and communications with the public as well as the final methodology to prioritize the projects. ELD PA has also secured two grants to implement projects to date and developed grant applications for 15 more roads elevation projects.

Clearview Geographic

Clearview Geographic stands at the forefront of integrating Geographic Information Systems (GIS), environmental science, and cutting-edge technologies to enhance environmental resilience and strategic planning efforts. Their innovative approach to data management and analysis propels workflows forward and helps create comprehensive climate adaptation strategies. Clearview Geographic is committed to guiding organizations in leveraging geospatial technologies for a transformative impact. Relevant to Levy County's RFQ, Clearview Geographic offers:

- A streamlined data request and gap anaylsis process facilitated by an easy-to-use collaborative document
- Sea-level rise, high tide flooding, storm surge, rainfall and combined flood event modeling using industry-standard GIS software and previously approved methodologies
- Community wide customizable spatial analysis with multiple opportunities for input
- Print-ready atlas style mapping
- ESRI's ArcGIS Online Development with Story Map and Survey123 utilities for public engagement

Listed below are other relevant projects that demonstrate Clearview Geographic's extensive experience in geospatial analysis for Vulnerability Assessments:

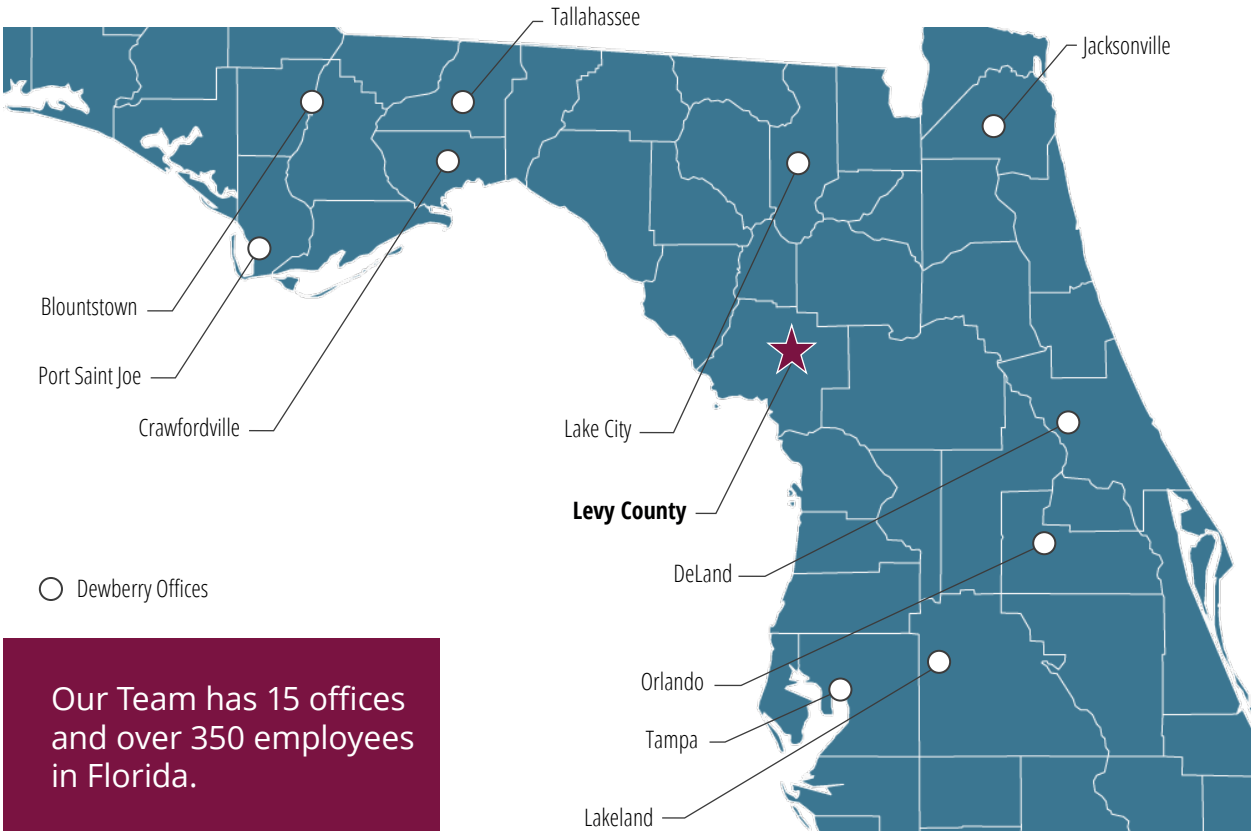
- For Martin County's Resilience and Watershed Management Plan, Clearview Geographic developed several map books and corresponding GIS data detailing the regionally significant IPCCAR5, NOAA, and USACE sea-level rise projections. Using a 2040, 2070 and 2100 planning horizon the NOAA Intermediate High and Intermediate Low flood projections were leveraged in an analytical model that assigned a ranked priority based on timeline to impact and estimated water depth for the critical assets, areas, and infrastructure.
- Using a combination of field-collected data, county and city provided data, as well as office-digitized data, Clearview Geographic developed a geospatial model for assessing Monroe County's vulnerability to sea-level rise. Integrating building elevation certificates, FEMA's HAZUS program, and the county's mass appraisal system into the study, Clearview Geographic modeled various depth-damage curves to provide an estimate of property damage. The project utilized updated flood risk projections asset inventories, and the Sea Level Affecting Marsh Model for habitat change.

Minimum Qualifications

1. Must be legally authorized to conduct business in the State of Florida;
See page 10.

2. Must have conducted, at a minimum, at least three (3) studies addressing risk with tidal, future high tide, rainfall, flooding and/or sea level rise for a coastal community of similar nature to Levy County within the past five (5) years.
See Tab 3 Related Experience.

3. Must be an individual, firm, partnership, corporation, association, or other legal entity permitted by law to practice engineering under Chapter 471, Florida Statutes; and/or land surveying and mapping under Chapter 472 Florida Statues.
See page 8.



Our Team has 15 offices and over 350 employees in Florida.

State of Florida
Department of State

I certify from the records of this office that DEWBERRY ENGINEERS INC. is a New York corporation authorized to transact business in the State of Florida, qualified on December 26, 2000.

The document number of this corporation is F00000007242.

I further certify that said corporation has paid all fees due this office through December 31, 2022, that its most recent annual report/uniform business report was filed on April 24, 2022, and that its status is active.

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

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Fifth day of January, 2023

Secretary of State

Tracking Number: 2476514278CU

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

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

1. Qualification Certification

ATTACHMENT "A" – QUALIFICATION CERTIFICATION

The Undersigned presents this Qualifications Submittal to be considered as a Qualified Engineering Firm for the provision of professional engineering services for the Comprehensive Vulnerability Assessment.

A copy of the licenses(s) under which our firm is engaged in the business of contracting in the State of Florida is attached. This license was issued in accordance with provisions of Section 471.023 Florida Statutes, and is currently valid and in force.

It is further understood that qualification, if given, shall be valid for the purpose of responding to the above solicitation, unless suspended or terminated by Levy County.

The Undersigned authorizes and requests any public official, engineer, architect, Surety Company, bank depository, material or equipment manufacture or distributor or any person, firm or corporation to furnish all information requested by Levy County, to verify statements given with this Qualification Submittal.

The Undersigned further authorizes Levy County, FL designee to disclose, without any liability whatsoever, any and all information contained in the Qualifications Submittal.

The Undersigned has not been disqualified by any public agency in Florida except as indicated below. (If none, insert: "N/A").

N/A

Dated this 7th day of December, 2023.

Signature of Affiant

Jerry Sparks, PE | ~~Executive~~ SENIOR Vice President

Printed Name & Title of Affiant

Dewberry Engineers Inc.

Full Legal Name of Consultant/Contractor

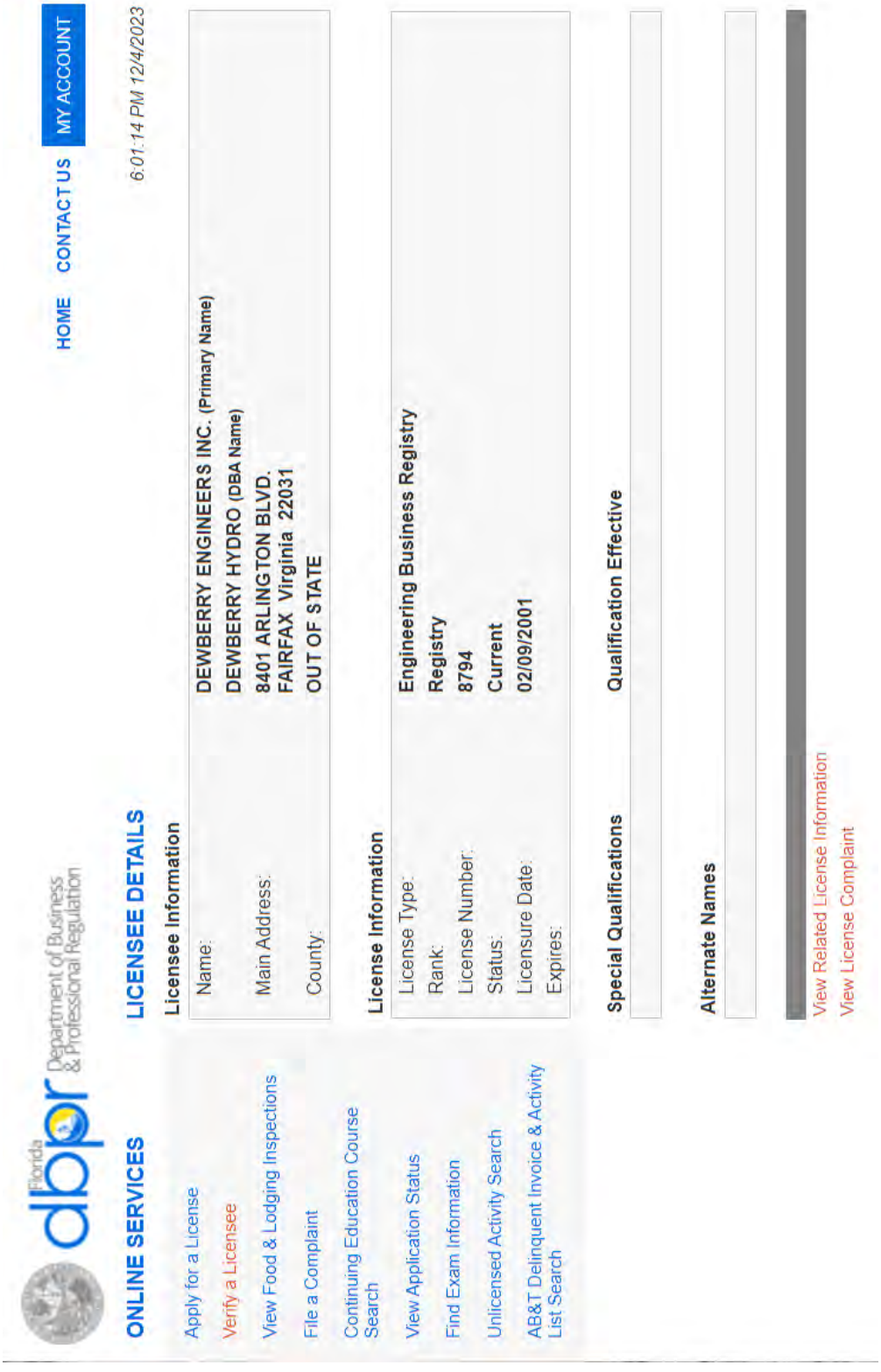
Sworn to (or affirmed) and subscribed before me by means of ☑ physical presence or ☐ online notarization, this 7th day of December, 2023, by Affiant. Who is ☑ personally known to me or has produced _____ as identification.

VERONICA LYNNE SANDERS
COMMONWEALTH OF VIRGINIA
REGISTRATION NO. 7106546
MY COMM. EXPIRES 1.31.2025
NOTARY PUBLIC

Notary Public

My Commission Expires: January 31, 2025

Florida Engineering License



Florida dbpr Department of Business & Professional Regulation

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ONLINE SERVICES

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File a Complaint
Continuing Education Course Search
View Application Status
Find Exam Information
Unlicensed Activity Search
AB&T Delinquent Invoice & Activity List Search

LICENSEE DETAILS

6:01:14 PM 12/4/2023

Licensee Information

Name:	DEWBERRY ENGINEERS INC. (Primary Name) DEWBERRY HYDRO (DBA Name)
Main Address:	8401 ARLINGTON BLVD. FAIRFAX Virginia 22031
County:	OUT OF STATE

License Information

License Type:	Engineering Business Registry
Rank:	Registry
License Number:	8794
Status:	Current
Licensure Date:	02/09/2001
Expires:	

Special Qualifications — **Qualification Effective**

Alternate Names

View Related License Information
View License Complaint

2. Claims, Liens, and Litigation History

ATTACHMENT "B" – CLAIMS, LIENS, LITIGATION HISTORY

Respondents must complete all questions below and provide information requested as applicable. Failure to appropriately complete the questions below, or provide requested information may be grounds for disqualification. Any material misrepresentation of information may also be grounds for disqualification.

1. Within the past 7 years, has your organization filed suit or a formal claim against a project owner (as a prime or subcontractor) or been sued by or had a formal claim filed by an owner, subcontractor or supplier resulting from a project dispute?

   ☐ Yes ☑ No

   If yes, please attach additional sheet(s) to include:
   - Description of every action Captions of the Litigation or Arbitration
   - Amount at issue
   - Name(s) of the attorneys representing all parties:
   - Amount actually recovered, if any
   - Name(s) of the project owner(s)/manger(s) to include address and phone number

2. List all pending litigation and or arbitration.

Case Caption, Case Number, Court	Amount At Issue	Name Of Attorneys Representing Each Party	Amount Recovered	Name Of Project Owner(S)/ Manager(S)	Project	Claim Reason	Outcome
Jorge C. Figueredo and Heavenly R. Figueredo. v Victoria Park HOA, Inc.; Sawyer's Landing HOA, Inc; Dewberry Engineering Inc. City of Deland - 2022-11879-CIDL - In the Circuit/County Court in and for Volusia County, Florida	N/A	Figueredo - Schuyrow R. Wolfe Esq - Schuyrow R. Wolfe PA dba My Legal Wolfe	N/A	M3 Development, LLC	Victoria Park HOA	Plaintiffs are alleging stormwater ponds at levels higher than the estimated seasonal groundwater elevations which caused water to leak onto their property.	Matter Pending

3. List and explain all litigation and arbitration within the past seven (7) years – pending, resolved, dismissed, etc.

Case Caption, Case Number, Court	Amount At Issue	Name Of Attorneys Representing Each Party	Amount Recovered	Name Of Project Owner(S)/ Manager(S)	Project	Claim Reason	Outcome
Jorge C. Figueredo and Heavenly R. Figueredo. v Victoria Park HOA, Inc.; Sawyer's Landing HOA, Inc; Dewberry Engineering Inc. City of Deland - 2022-11879-CIDL - In the Circuit/County Court in and for Volusia County, Florida	N/A	Figueredo - Schuyrow R. Wolfe Esq - Schuyrow R. Wolfe PA dba My Legal Wolfe	N/A	M3 Development, LLC	Victoria Park HOA	Plaintiffs are alleging stormwater ponds at levels higher than the estimated seasonal groundwater elevations which caused water to leak onto their property.	Matter Pending

4. Please list all liens (including Federal, State, and Local) which have been filed against your Company within the past seven (7) years. List in detail the type of Lien, date, amount and current status of each Lien. If none, so state.
   Dewberry Engineers Inc. does not have any liens.

5. Have you ever abandoned a job, been terminated or had a performance/surety bond called to complete a job?
   ☐ Yes ☑ No – If yes, on separate sheet(s), provide an explanation of those instances.

6. For all claims filed against your company within the past five (5) years, have all been resolved satisfactorily with final judgment in favor of your company within 90 days of the date the judgment became final?
   ☑ Yes ☐ No – If no, on separate sheet(s), explain why.

7. On separate sheet(s), list the status of all pending claims currently filed against your company. If none, so state.

8. Has a project owner ever withheld retainage, issued liquidated damages or made a claim against any Performance and Payment Bonds?
   ☐ Yes ☑ No – If yes, on separate sheet(s) explain in detail

3. Insurance Coverages

ACORD®

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 11/29/2023

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 MARSH USA, LLC. 1050 CONNECTICUT AVENUE, SUITE 700 WASHINGTON, DC 20036-5386	**CONTACT NAME:** Ashley Oliver **PHONE (A/C, No, Ext):** 410 347 3631 **FAX (A/C, No):** **E-MAIL ADDRESS:** Ashley.Oliver@marsh.com
CN102736896-7/1-1.1a-23-24 GAWP	**INSURER(S) AFFORDING COVERAGE** — **NAIC #**
INSURED DEWBERRY ENGINEERS INC. 800 N. MAGNOLIA AVENUE, SUITE 1000 ORLANDO, FL 32803	**INSURER A :** The Charter Oak Fire Insurance Company — 25615 **INSURER B :** The Travelers Indemnity Company Of America — 25658 **INSURER C :** Travelers Property Casualty Co. Of America — 25674 **INSURER D :** Beazley Insurance Company, Inc. — 37540 **INSURER E :** N/A — N/A **INSURER F :**

COVERAGES **CERTIFICATE NUMBER:** CLE-007157466-01 **REVISION NUMBER:** 8

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.

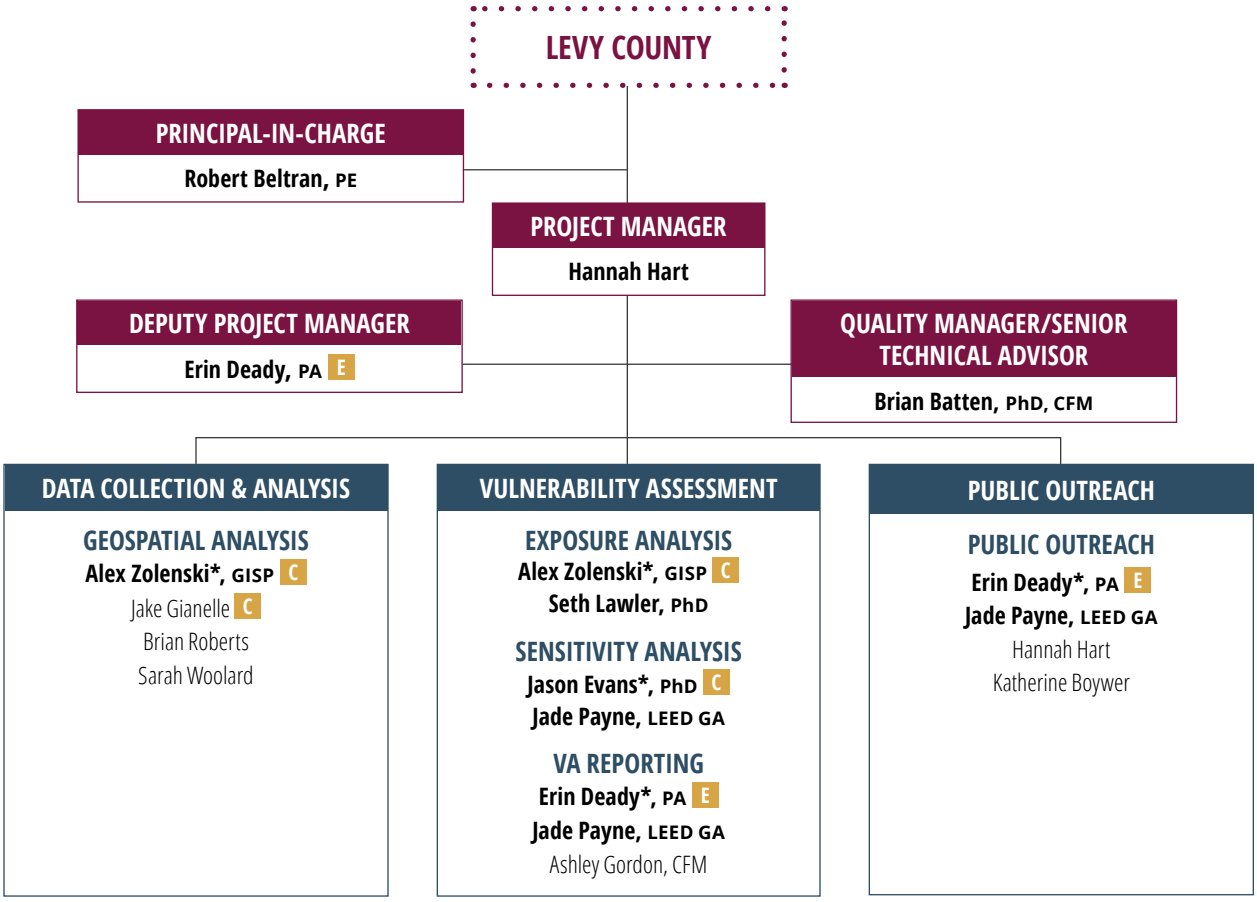
INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X **COMMERCIAL GENERAL LIABILITY** [ ] CLAIMS-MADE [X] OCCUR X CONTRACTUAL INS. COV. [ ] (INSURED CONTRACTS) GEN'L AGGREGATE LIMIT APPLIES PER: X POLICY [ ] PRO-JECT [ ] LOC [ ] OTHER:	X	X	P-630-7792B312-COF-23	07/01/2023	07/01/2024	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 $ 1,000,000 $ 10,000 $ 1,000,000 $ 2,000,000 $ 2,000,000 $
B	**AUTOMOBILE LIABILITY** X ANY AUTO [ ] OWNED AUTOS ONLY [ ] SCHEDULED AUTOS [ ] HIRED AUTOS ONLY [ ] NON-OWNED AUTOS ONLY	X	X	810-1N788974-23-43-G	07/01/2023	07/01/2024	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) COMP / COLL DED:	$ 2,000,000 $ $ $ $ 1,000
	[ ] **UMBRELLA LIAB** [ ] OCCUR [ ] **EXCESS LIAB** [ ] CLAIMS-MADE [ ] DED [ ] RETENTION $						EACH OCCURRENCE AGGREGATE $	$ $ $
C	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** Y / N ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? N **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N / A	X	UB-6P972264-23-43-G	07/01/2023	07/01/2024	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 LIABILITY			V11B5E231401 RETRO. DATE: FULL PRIOR ACTS	07/01/2023	07/01/2024	PER CLAIM/AGGREGATE	5,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
RE : DEWBERRY PROJECT/JOB/PLN # 302135, BU1462, COMPREHENSIVE VULNERABILITY ASSESSMENT
LEVY COUNTY, A POLITICAL SUBDIVISION OF THE STATE OF FLORIDA, ITS ELECTED OFFICIALS, OFFICERS, EMPLOYEES, AGENTS, AND VOLUNTEERS ARE INCLUDED AS ADDITIONAL INSURED WHERE REQUIRED BY WRITTEN CONTRACT WITH RESPECT TO GENERAL LIABILITY AND AUTOMOBILE LIABILITY. WAIVER OF SUBROGATION IS APPLICABLE WHERE REQUIRED BY WRITTEN CONTRACT WITH RESPECTS TO GENERAL LIABILITY, AUTO LIABILITY AND WORKERS COMPENSATION.

CERTIFICATE HOLDER	CANCELLATION
Levy County, a political subdivision of the State of Florida, its elected officials 310 School Street Bronson, FL 32621	**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 of Marsh USA LLC**

4. Key Personnel

The Organizational Chart below provides an overview of our proposed team members and their role. All have performed Vulnerability Assessment work in Florida and have also supported multiple task areas, providing for a cohesive inter-disciplinary team that knows this region. See detailed resumes on the following pages.



E Erin Deady Law

C Clearview Geospatial

* indicates Task Lead

Bold indicates key personnel

Robert Beltran, PE

PRINCIPAL-IN-CHARGE

EDUCATION
MS • Tulane University • Environmental Engineering • 1995

BS • Tulane University • Civil Engineering • 1994

LICENSURES & CERTIFICATES
Professional Engineer • FL

Certified General Contractor • FL

YEARS OF EXPERIENCE
Dewberry • 7

Prior • 22

Robert has worked on integrated water projects in Florida for 29 years which includes water, wastewater, reclaimed, and stormwater systems. Robert's experience includes serving as the Southwest Florida Water Management District Assistant and then Executive Director. In these roles, he worked on water policy and projects that helped form the foundation of key elements of Florida's water laws today. Other initiatives he directed while at SWFWMD include leading the solutions team for the Central Florida Water Initiative (CFWI) to confirm adequate alternative water supply projects that overlap three water management districts, and chairing the Management Oversite Committee to find water supply solutions for Central Florida Utilities. Robert is leading Dewberry's State of Florida One Water Practice bringing his knowledge and experience in holistic water supply projects and plans to serve our clients needs.

Plant City, Water Treatment Plant #5, Plant City, FL, Principal-in-Charge
This projects includes the design of a 5 MGD rated new water plant for the City. Services included testing the existing well at rates over 5 MGD to determine impacts on the existing wetland and providing I&C upgrades at the existing water plants #1-4. The site includes chemical addition of polyphosphate for corrosion control, hydrofluosilicic acid to maintain fluoride levels in the drinking water, and sodium hypochlorite for water disinfection.

Polk County Utilities, Cherry Hill Water Production Facility, Phase II, Polk County, FL, Principal-in-Charge
PCU contracted with Dewberry to provide services for planning, design, permitting, bidding, and construction of the Cherry Hill WPF. Dewberry assisted PCU with establishing the conditions for the three regional plants that will serve the Northwest Regional Service Area (NWRSA). Additionally, Dewberry is completing services through design, bidding, and construction of the Cherry Hill Regional WPF, which will replace two smaller facilities and allow for the addition of alternative water supply at the facility in the future.

Polk Regional Water Cooperative (PRWC), Southeast Lower Floridan Aquifer Project, Polk County, FL, Principal-in-Charge
Project includes preliminary design of 61 miles of transmission pipeline to distribute potable water to multiple municipalities throughout Polk County. Project included route analysis of over 200 miles of corridor for the pipeline. Multiple funding sources were leveraged, including State Revolving Fund loans, SWFWMD co-funding ($236 million), and WIFIA loans ($230 million) future.

PCU, Gibson Oaks Pipeline Design, Polk County, FL, Principal-in-Charge
This project included a plan and profile design of raw and potable water pipelines. Roughly 34,000 linear feet (LF) of pipeline to loop potable water distribution systems and connect off-site water production wells to the treatment facility.

Clay County Utilities Authority (CCUA), Governor's Park Interim Water Treatment Plant, Clay County, FL, Principal-in-Charge
This project included a plan and profile design of raw and potable water pipelines. Roughly 34,000 linear feet (LF) of pipeline designed to loop potable water distribution systems and connect off-site water production wells to the treatment facility.

Hannah Hart

PROJECT MANAGER

EDUCATION
BS • University of Florida • Wildlife Ecology and Conservation • 2003

YEARS OF EXPERIENCE
Dewberry • 5

Prior • 16

Hannah has 13 years of experience in Project and Program management and over 20 years of experience in public and private industry. For ten years, she managed environmental programs for FDOT and the St. Johns River Water Management District. She has extensive stakeholder and public engagement experience, and a technical background in nature-based design solutions for both coastal and freshwater systems. Hannah has over 15 years of experience in managing projects requiring NEPA compliance, field and reporting experience for consumptive-use regulations, construction-phase compliance, disaster response, federal funding compliance, preparing federal grant applications, and writing legislation and policy for local government and state agencies.

City of Destin Vulnerability Asssessment, Destin, FL, Project Manager
Leading a Citywide VA that includes public outreach, data collection, exposure, and sensitivity analysis, development of focus areas for the City's most vulnerable critical assets. Dewberry is also reviewing the County Local Mitigation Strategy (LMS) for Project Alignment with potential mitigation projects associated with vulnerable critical assets.

Jackson County Vulnerability Assessment, Jackson County, FL, Project Manager
This project entails a county-wide comprehensive vulnerability assessment, including 10 incorporated cities and towns within the County. The study will be compliant with Section 390.093, Florida Statutes. Task work includes data collection, exposure analysis, sensitivity analysis of critical assets, the establishment of focus areas for mitigation opportunities and projects, LMS alignment, and stakeholder and public outreach.

Washington County Pilot Flood Study, Washington County, FL, Project Manager
This project was an accelerated pilot flood study, completed in six months, to document available data related to recent flooding concerns in the County. Focus areas included the southeast region and limited areas in the southwest region of the county, where multiple closed basins have experienced unprecedented flooding events in the past five years. Available reports from FDEP, NWFWMD, and other agencies were reviewed. Field reviews were conducted to document current conditions on flood levels; rainfall projections and a history of rainfall patterns were also analyzed. Several mitigation projects were also proposed along with the alignment of proposed funding resources for recommended projects.

St. Johns County Public Waterway Access Master Plan, St. Johns County, FL, Project Manager
This project developed a Public Waterway Access Master Plan for St. Johns County Park and Recreation Department. The Plan is a 5-year strategic roadmap to implement prioritized investments, that promote and maximize the public benefit and safe enjoyment of the Intracoastal Waterway, St. Johns River, other significant navigable waterways, and associated amenities. The Plan will also address future sea-level rise conditions, how it effect recreational access, future maintained channels, review the growing needs of the County's maritime community, and provides recommendations for design, to improve resilience of existing boat ramps and dredged channels. The project includes stakeholder outreach and engagement with non-governmental agencies, commercial business owners, and regulatory agencies.

Brian Batten, PHD, CFM

QUALITY MANAGER/SENIOR TECHNICAL ADVISOR

EDUCATION
PhD • Stony Brook University • Coastal Oceanography • 2003

MS • Stony Brook University • Marine Environmental Science • 1999

BS • Coastal Carolina University • Marine Environmental Science • 1997

LICENSURES & CERTIFICATES
Certified Floodplain Manager • US

YEARS OF EXPERIENCE
Dewberry • 18

Prior • 9

Leveraging over 25 years of experience, Brian has provided project and technical leadership for federal, state, and municipal clients on an array of consulting projects in the coastal sector. He is a seasoned, outcome-oriented professional with experience in delivering to big picture outcomes through strategic planning, science to application, and integrated team management and engagement. Brian received Consultant of the Year award by the mid-Atlantic APWA for his leadership of Virginia Beach's strategic response to sea level rise. He is a recognized national expert and if frequently invited to speak on the issues of coastal resilience, including to federal advisory committees for both FEMA and NOAA.

Advisory Sea Level Rise Study, Hillsborough and Pinellas Counties, FL, Technical Lead
Technical lead of study for FEMA headquarters to explore modeling approaches for future conditions. Provided technical leadership in approaches to model and map future storm surge and wave hazards, with considerations for barrier island and marsh loss. Examined approaches to create future flood insurance rate maps using innovative geospatial mapping techniques.

Florida Department of Economic Opportunity - Community Sea Level Rise Vulnerability/Adaptation Study Pilot Project Study, FL, Techincal Lead
Technical lead of state pilot project to conduct sea level rise and coastal hazard risk and vulnerability analysis to inform adaptation planning measures for integration into existing local planning, policy and budgeting mechanisms. Effort included Clearwater, St. Augustine, and Escambia. Project explored multiple approaches to engage communities to select sea level rise scenarios, and tailored products to specific community challenges and concerns.

Monroe County Coastal Storm Risk Study, FDOT D6, Monroe County, FL, Technical Lead
Technical lead for existing and future climate-change condition coastal flood hazard and risk assessment of 126 miles of roadway, including 61 bridges on US1 from between Florida City and Key West. The study effort is selecting future climate scenarios and developing tidal and multi-frequency storm surge hazard data with consideration of wave effects to evaluate medium (2050) and long-term (2100) exposure of this critical road and bridge network throughout the Florida Keys. Exposure, sensitivity, and adaptive capacity analysis will be completed to identify and prioritize reaches for detailed assessment and flood risk reduction strategy development.

Virginia Coastal Resilience Master Plan, Statewide, VA, Project Manager
Project Manager of consulting team supporting the Commonwealth of Virginia in the development of the Coastal Master Plan. Responsible for overall project administration, direction, thought leadership, and engagement of key commonwealth stakeholders in support of the Master Plan objectives and goals. The plan outcomes will benefit the stakeholders by taking a broader view of the entire coast in terms of critical needs, exiting gaps and inequities, to help align resources to benefit the coastal regions.

Erin L. Deady, ESQ., AICP

DEPUTY PROJECT MANAGER

EDUCATION
J.D. • Nova Southeastern University • 2000

MPA • Florida Atlantic University • 1997

BA • University of Miami • 1993

LICENSURES & CERTIFICATES
Juris Doctorate, Florida Bar

YEARS OF EXPERIENCE
Erin L. Deady, P.A. • 12

Prior • 14

PUBLICATIONS
"Statewide Flooding and Sea Level Rise Resilience: New Legislation and Opportunities to Implement and Fund Resiliency" • Environmental and Land Use Law Section Reporter • 2022

"Statewide Flooding and Sea Level Rise Resilience: New Legislation and Opportunities to Implement and Fund Resiliency" • Environmental and Land Use Law Section Reporter • 2021

"New Evolutions in the Law of Climate Change and Sea Level Rise" • Florida Bar Journal • 2020

"Why the Law of Climate Change Matters: From Paris to a Local Government Near You" • Florida Bar Journal • 2017

Erin has extensive knowledge of the Always Ready requirements (Section 380.093, F.S.) including Chapter 62S-8, F.A.C. grant criteria including evaluation of grant applications for both planning and capital projects exhibited by a $94M successful track record for the granting program. To date, Erin L. Deady P.A. has completed or is in the process of completing 15 vulnerability assessments in Florida. The firm's work also includes legally-based policy, comprehensive plan, code and other projects/policy initiatives.

Monroe County Vulnerability Assessment, Adaptation Action Areas Maps and Comprehensive Plan Amendments, Key Largo, FL, Prime Consultant
Erin served as the project manager and prime consultant on this grant funded project completed in 2021. Erin has secured multiple grants for Monroe County and updated its previous work conducted in 2015 for the County's Vulnerability Assessment. This scope of work conducted in 2019 and 2020 was to draft Adaptation Action Areas (AAAs) goals, objectives and policies for the Comprehensive Plan as well as to create maps. She developed a policy overview and drafted language for AAAs in the Coastal and Conservation Element of the Comprehensive Plan including maps for the AAAs. In addition, Erin and Clearview Geographic updated the County's Vulnerability Assessment in 2021, prior to the enactment of Section 380.093, F.S.

Martin County Vulnerability Assessments, Stuart, FL, Prime Consultant
Erin served as the project manager and prime consultant on this grant funded project completed in 2021. She has worked with Clearview Geographic to conduct an initial Vulnerability Assessment for Martin County and most recently assisted with securing a Resilient Florida Planning Grant award to bring that work into compliance with new statutory requirements for vulnerability assessments in Section 380.093, F.S. This most recent work launched in October 2022 and is expected to be completed by March 2024 to align the Vulnerability Assessment work products with the requirements of Section 380.093, F.S.

Martin County Vulnerability Assessments, Stuart, FL, Prime Consultant
Erin served as the project manager and prime consultant on this grant funded project completed in 2021. She has worked with Clearview Geographic to conduct an initial Vulnerability Assessment for Martin County and most recently assisted with securing a Resilient Florida Planning Grant award to bring that work into compliance with new statutory requirements for vulnerability assessments in Section 380.093, F.S. This most recent work launched in October 2022 and is expected to be completed by March 2024 to align the Vulnerability Assessment work products with the requirements of Section 380.093, F.S.

City of Pensacola Vulnerability Assessment, Pensacola, FL, Prime Consultant
Erin worked with Clearview Geographic to complete the City's first Vulnerability Assessment in 2021 pursuant to a grant awarded in the Resilient Florida Program prior to the enactment of Section 380.093, F.S. The Team modeled multiple scenarios, identified tidal valve retrofit projects and drafted Peril of Flood amendments ultimately adopted by the City. Two stormwater grants were awarded to the City based on this work and the Team is currently conducting a Vulnerability Assessment update to bring all work products into compliance with the Resilient Florida statutory criteria.

Alex Zelenski, GISP

GEOSPATIAL ANALYSIS AND EXPOSURE ANALYSIS

EDUCATION
BS • Stetson University • Environmental Science & Geography • 2016

LICENSURES & CERTIFICATIONS
GISP

FCC Radio Operator license

YEARS OF EXPERIENCE
Clearview Geographic • 7

AFFILIATIONS
Association of State Floodplain Managers

PUBLICATIONS
Evans, J.M., A. Clark, M. Blakely, S. Cooler, Z. Hoffman, T. McDonald, C. Reich, R. Brown, and C. Tolleson. "Chatham County and City of Savannah Joint Coastal Watershed Management Plan: Stormwater System Assessments with Future Sea-Level Rise and 100-Year Coastal Flood Conditions" 2020

Evans, J.M. and A. Clark. "Sea-Level Rise Inundation Assessment for the City of Rockledge Stormwater System. DeLand: Stetson University Institute for Water and Environmental Resilience" 2019

Alex has extensive knowledge of the Always Ready requirements (Section 380.093, F.S.) for modeling in Vulnerability Assessments as well as the State of Florida's GIS submittal requirements. Clearview Geographic has served as a subconsultant on numerous similar projects across the state focused on the exposure, sensitivity, GIS and analytical portions of many Vulnerability Assessments. To date, this includes work on previously completed or in process 11 vulnerability assessments in Florida. The firm's work also includes both public sector and private sector projects incorporating geospatial analytics, data visualization, data compilation, mapping, web applications, interactive reports and flood inundation modeling. Clearview has also supported the technical analysis incorporated into numerous Resilient Florida grant applications.

Monroe County Vulnerability Assessment, Adaptation Action Areas Maps and Comprehensive Plan Amendments, Key Largo, FL, Sub Consultant
Clearview served as the lead modeling, GIS and technical analysis for this grant funded project completed in 2021. This scope of work conducted in 2019 and 2020 was to draft maps for the vulnerability assessment and Adaptation Action Areas (AAAs). Clearview Geographic updated the County's Vulnerability Assessment in 2021, prior to the enactment of Section 380.093, F.S. and serves as the technical lead presently updating that plan to address the state's new assessment requirements.

Martin County Vulnerability Assessments, Stuart, FL, Sub Consultant
Clearview served as the technical lead on this grant funded project completed in 2021. Clearview Geographic to assisted in conducting an initial Vulnerability Assessment for Martin County and most recently assisted with securing a Resilient Florida Planning Grant award to bring that work into compliance with new statutory requirements for vulnerability assessments in Section 380.093, F.S. This most recent work launched in October 2022 and is expected to be completed by March 2024 to align the Vulnerability Assessment work products with the requirements of Section 380.093, F.S.

St. Lucie County Vulnerability Assessment, St. Lucie County, FL, Sub Consultant
Clearview led the technical aspects of the St. Lucie County Vulnerability Assessment (VA) as a product of Resilience Planning Grant R2133 as a subcontractor. The project included the County and the municipalities within the County. The VA addresses (1) flood related impacts under various sea level rise scenarios and tidal flooding, (2) critical buildings and infrastructure, (3) natural resources, and (4) at-risk populations. The analysis forms the foundation of an evidence-based, strategic resilience plan that systematically prioritizes and develops adaptive strategies to address areas of vulnerability. The ELD PA / Clearview team led the entire VA approach, all data collection efforts, a modeling strategy and significant mapping output. The team conducted numerous elected official briefings and public outreach events in conjunction with Oxbow Eco-Center in St. Lucie County. The work has served as the foundation for a supplemental Resilient Florida Grant and the County is currently engaged in efforts to develop a Stormwater Master Plan that will provide significant data for the next VA effort funded by the Resilient Florida program.

Seth Lawler, PhD

EXPOSURE ANALYSIS

EDUCATION

PhD Candidate • George Mason University • Civil Engineering • 2020

MS • George Mason University• Civil and Environmental Engineering • 2016

BS • George Mason University • Civil Engineering • 2014

BA • San Francisco State University • History • 2005

YEARS OF EXPERIENCE

Dewberry • 8

Prior • 10

Seth is a Computational Scientist with extensive expertise in coastal and riverine surface water modeling. He is a subject matter expert in scientific and geospatial programming with experience developing and scaling serial applications for parallel processing in High Performance and Cloud Computing environments. Seth has worked on broad range of projects at the national, state, and local level including the development and quality control of tools in use by the U.S. Army Corps of Engineers, the National Oceanographic and Atmospheric Administration, and the United States Geological Survey. Seth has a PhD in Civil Engineering from George Mason University, where he conducted research with the National Weather Service to enhance modeling and forecasting.

Virginia Coastal Resilience Master Plan, Statewide Coastline, VA, Data Analyst

Seth led the development of the cloud based systems used for data processing, QAQC, and other automation and scheduling services. Designed the system architecture for hosting the web application including internal and external API's. The Commonwealth of Virginia's first state-wide plan to enhance coastal resilience in the face of climate change and rising sea levels. Key products included state-wide coastal hazard mapping, resilience project inventory and evaluation framework, financing strategy evaluation, website development, technical direction for approaches to future condition modeling of fluvial and pluvial hazards, and development of the master plan document and website.

Texas GLO, Central Region, TX, Solutions Architect

Led the design and deployment of a cloud native data collection system. Integrated and exposed complex and varied datasets critical for modeling and outreach activities. Provided resources and created tools to ensure continuous delivery and integration of services supporting risk analysis activities.

City of Houston, Houston, TX, Engineering Lead

Led the flood modeling team supporting Civis Analytics Harvey Data Project in the development of a high-resolution, coupled HEC-RAS and HEC-HMS 2D modeling system for hindcasting for Hurricane Harvey to provide complex flood risk data for loss and damage calculations.

FEMA Probabilistic Flood Risk Assessment, Nationwide, Solutions Architect

Led the STARR II JV computing team in the design of software and cloud tools for executing the Probabilistic Flood Risk Assessment project. Developed modules and processes for automating creation, execution, and analysis of 10's of thousands of HEC-RAS simulations in the Amazon Web Services and Azure Clouds.

Floodcast, National Academy of Science, Engineering Lead

Designed and developed a microsystems framework using Docker to provide real-time forecast at state highways for DOT's. Includes automation routines that create 1D hydraulic models which are forced using automated retrieval of forecast data from National Water Model.

Jason Evans, PhD

EXPOSURE AND SENSITIVITY ANALYSIS

EDUCATION

Ph.D. • University of Florida • Interdisciplinary Ecology, with Area of Concentration in Environmental Engineering Sciences • 2007

M.S. • Interdisciplinary Ecology • University of Florida • 2002

B.A. • New College of Florida • Philosophy • 1998

YEARS OF EXPERIENCE

Clearview Geographic • 5

Prior • 6

Dr. Jason Evans is trained as a landscape and systems ecologist with a high level of expertise in dataset development, spatial modeling, and flood hazard vulnerability assessments using geographic information systems (GIS). Since 2011, Jason has served as principal investigator or co-principal investigator for fourteen separate projects that focus on coastal flooding vulnerability and adaptation across coastal Georgia, Florida, South Carolina, and North Carolina. Several of these projects have focused on identifying vulnerability of stormwater systems to sea-level rise and increasing precipitation.

Monroe County Vulnerability Assessment, Adaptation Action Areas Maps and Comprehensive Plan Amendments, Key Largo, FL, Senior Advisor

Jason provided support for all modeling, GIS and technical analysis for this grant funded project completed in 2021. This scope of work conducted in 2019 and 2020 was to draft maps for the vulnerability assessment and Adaptation Action Areas (AAAs). Clearview Geographic updated the County's Vulnerability Assessment in 2021, prior to the enactment of Section 380.093, F.S. and serves as the technical lead presently updating that plan to address the state's new assessment requirements.

Martin County Vulnerability Assessments, Stuart, FL, Senior Advisor

Jason completed the GIS analysis work for this project. Clearview assisted in conducting an initial Vulnerability Assessment for Martin County and most recently assisted with securing a Resilient Florida Planning Grant award to bring that work into compliance with new statutory requirements for vulnerability assessments in Section 380.093, F.S. This most recent work launched in October 2022 and is expected to be completed by March 2024 to align the Vulnerability Assessment work products with the requirements of Section 380.093, F.S.

St. Lucie County Vulnerability Assessment, St. Lucie County, FL, Senior Advisor

Jason led all the GIS analysis work for this project. Clearview led the technical aspects of the St. Lucie County Vulnerability Assessment (VA) as a product of Resilience Planning Grant R2133 as a subcontractor. The project included the County and the municipalities within the County. The VA addresses (1) flood related impacts under various sea level rise scenarios and tidal flooding, (2) critical buildings and infrastructure, (3) natural resources, and (4) at-risk populations. The analysis forms the foundation of an evidence-based, strategic resilience plan that systematically prioritizes and develops adaptive strategies to address areas of vulnerability. The ELD PA / Clearview team led the entire VA approach, all data collection efforts, a modeling strategy and significant mapping output. The team also conducted numerous elected official briefings and public outreach events in conjunction with Oxbow Eco-Center in St. Lucie County. The work has also served as the foundation for a supplemental Resilient Florida Grant and the County is currently engaged in efforts to develop a Stormwater Master Plan that will provide significant data for the next VA effort funded by the Resilient Florida program.

Jade Payne, LEED GA

VULNERABILITY ASSESSMENT AND PUBLIC OUTREACH

EDUCATION
MA • Columbia University • Climate and Society • 2018

BS • University of Central Florida • Environmental Science • 2017

LICENSURES & CERTIFICATIONS
LEED Green Associate • US

YEARS OF EXPERIENCE
Dewberry • 3

Prior • 2

Jade is a Resilience Planner, focused on working on hazard risk assessments and community capabilities to create actionable strategies for resilience. She has served clients at the local, state, and federal levels in integrating risk information in their decision-making and strategically communicating it to internal and external audiences. Her current focus is hazard mitigation planning for state and local clients that integrates climate adaptation and prioritizes equity. Jade has worked in and with states such as Virginia, Maryland, and New York while also working with FEMA on the federal level to enhance nationwide resilience through hazard mitigation policy and risk communication. She also has experience working on environmental and sustainability projects in Orlando and in her hometown of Largo, FL.

Liberty County Vulnerability Assessment, Liberty County, FL, Public Outreach
This projet consisted of a comprehensive countywide vulnerability assessment study that is compliant with Section 390.093, Florida Statutes. Task work includes data collection, exposure analysis, sensitivity analysis of critical assets, the establishment of focus areas for mitigation opportunities and projects, LMS alignment, and stakeholder and public outreach.

Jackson County Vulnerability Assessment, Jackson County, FL, Public Outreach
This project entails a county-wide comprehensive vulnerability assessment, including 10 incorporated cities and towns within the County. The study will be compliant with Section 390.093, Florida Statutes. Task work includes data collection, exposure analysis, sensitivity analysis of critical assets, the establishment of focus areas for mitigation opportunities and projects, LMS alignment, and stakeholder and public outreach.

FEMA Mitigation Directorate, Nationwide, Policy Analyst
Jade has supported FEMA's Hazard Mitigation Assistance Division of the Mitigation Directorate through hazard mitigation grant policy analysis and writing. She primarily worked with policies that focused on the eligibility for individual project types, but she has helped with all elements of current HMA grant policy guidance. Jade also designed and facilitated one of the most successful virtual policy sprints in the division.

Comprehensive Sea Level Rise & Recurrent Flood Analysis and Planning, Virginia Beach, VA, Task Manager and Policy Analyst
Responsible for voluntary acquisition research, policy development, and public outreach. Dewberry is assisting the city in conceptual design and funding analysis for implementing various aspects of repetitive and projected increases in flooding and related issues. The study, which began in 2015, is phased over three key elements consisting of an impact assessment, adaptation strategy development, and implementation. The final study phase will develop the watershed-level plans to provide conceptual design, overall costs, possible funding sources, and outreach activities in an actionable framework.

TAB 3: Related Experience

RELATED EXPERIENCE

City of St. Augustine Vulnerability Assessment and Adaptation Plan (FLDEO Resiliency Pilot Project)

CITY OF ST. AUGUSTINE, FL

Following the state legislature's passing of the Community Planning Act, the Florida Department of Economic Opportunity (DEO) pursued climate adaptation activities related to sea level rise (SLR) at the state, county, and community level under a NOAA-funded Community Resiliency Initiative. This effort engaged three communities, including the City of St. Augustine, with unique perspectives, data assets, vulnerabilities, and resilience goals.

Dewberry proposed an integrated approach for creating informed adaptation strategies from a community's risk portfolio. The Coastal Hazard Vulnerability and Risk Analysis (Task 1) and development of the Hazard Adaptation Plans (Task 2) were completed in a sequenced approach. Key steps for each community included: Vulnerability Assessment Kick-off Meeting, Data Acquisition and Review, Design Charrettes with representatives from St. Augustine, Draft and Final VAs, Community Engagement, and Final Adaptation Plans. The Adaptation Plan provided resilience strategies that directly addressed the issues particular to St. Augustine including the impacts of sea level rise, intense storms, and heavier downpours. This Plan was intended to complement the Vulnerability Assessment and to provide St. Augustine with a law and policy framework for pursuing coastal resiliency.

- **COST**

  PROJECTED BUDGET: $97K

  FINAL COST: $97K

- **TIME FRAME OF PERFORMANCE**
  01/2015-01/2017

- **PROJECT OWNER**
  Florida Department of Economic Opportunity

- **CLIENT POINT OF CONTACT**
  Barbara Lenczewski
  850.717.8502
  barbara.lenczewski@deo

City of Clearwater Vulnerability Assessment and Adaptation Plan (FLDEO Resiliency Pilot Project)

CITY OF CLEARWATER, FL

Following the state legislature's passing of the Community Planning Act, the Florida Department of Economic Opportunity (DEO) pursued climate adaptation activities related to sea level rise (SLR) at the state, county, and community level under a NOAA-funded Community Resiliency Initiative. This effort engaged three communities, including the City of Clearwater, with unique perspectives, data assets, vulnerabilities, and resilience goals.

Dewberry proposed an integrated approach for creating informed adaptation strategies from a community's risk portfolio. The Coastal Hazard Vulnerability and Risk Analysis (Task 1) and development of the Hazard Adaptation Plans (Task 2) were completed in a sequenced approach. Key steps for each community included: Vulnerability Assessment Kick-off Meeting, Data Acquisition and Review, Design Charrettes with representatives from Clearwater, Draft and Final VAs, Community Engagement, and Final Adaptation Plans. At the City's request, the Adaptation Plan describes key legal and policy constraints and supports for responses to vulnerabilities identified by Dewberry and identifies possible ways for Clearwater to respond to those vulnerabilities. These identified vulnerabilities include sea level rise impacts such as flooding, precipitation changes, beachfront changes, and groundwater changes.

- **COST**

  PROJECTED BUDGET: $97K

  FINAL COST: $97K

- **TIME FRAME OF PERFORMANCE**
  01/2015-01/2017

- **PROJECT OWNER**
  Florida Department of Economic Opportunity

- **CLIENT POINT OF CONTACT**
  Barbara Lenczewski
  850.717.8502
  barbara.lenczewski@deo

Escambia County Vulnerability Assessment and Adaptation Plan (FLDEO Resiliency Pilot Project)

ESCAMBIA COUNTY, FL

Following the state legislature's passing of the Community Planning Act, the Florida Department of Economic Opportunity (DEO) pursued climate adaptation activities related to sea level rise (SLR) at the state, county, and community level under a NOAA-funded Community Resiliency Initiative. This effort engaged three communities, including Escambia County, with unique perspectives, data assets, vulnerabilities, and resilience goals.

Dewberry proposed an integrated approach for creating informed adaptation strategies from a community's risk portfolio. The Coastal Hazard Vulnerability and Risk Analysis (Task 1) and development of the Hazard Adaptation Plans (Task 2) were completed in a sequenced approach. Key steps for each community included: Vulnerability Assessment Kick-off Meeting, Data Acquisition and Review, Design Charrettes with representatives from Escambia County, Draft and Final VAs, Community Engagement, and Final Adaptation Plans. At the City's request, Final Adaptation Plan also identifies legal, political, economic, among other limits on the county's potential resiliency initiatives.

Since the completion of these plans, these communities have been successful in leveraging over $40 million dollars in additional grant funds from the Resilient Florida Grant program, all citing the completed plans under this project.

- **COST**
  PROJECTED BUDGET: $97k
  FINAL COST: $97K
- **TIME FRAME OF PERFORMANCE**
  01/2015-01/2017
- **PROJECT OWNER**
  Florida Department of Economic Opportunity
- **CLIENT POINT OF CONTACT**
  Barbara Lenczewski
  850.717.8502
  barbara.lenczewski@deo

City of Pensacola Vulnerability Assessment

PENSACOLA, FL

Erin L. Deady, P.A. worked with Clearview Geographic to complete the City's first Vulnerability Assessment in 2021 pursuant to a grant awarded in the Resilient Florida Program prior to the enactment of Section 380.093, F.S. The Team modeled multiple scenarios, identified tidal valve retrofit projects and drafted Peril of Flood amendments ultimately adopted by the City. Two stormwater grants were awarded to the City based on this work and the Team is currently conducting a Vulnerability Assessment update to bring all work products into compliance with the Resilient Florida statutory criteria.

- **COST**
  PROJECTED BUDGET: $85K
  FINAL COST: $85K
- **TIME FRAME OF PERFORMANCE**
  06/2021 - 06/2022
- **PROJECT OWNER**
  City of Pensacola
- **CLIENT POINT OF CONTACT**
  Cynthia Cannon, AICP
  850.435.1670
  ccannon@cityofpensacola.com

Countywide Flooding Assessment

WASHINGTON COUNTY, FL

Over the past five years, portions of Northwest Florida, including Washington County, have experienced multiple storm events, including hurricanes and significant rainstorms. The frequency and duration of these storm events have exceeded historic averages which has caused substantial flooding in portions of Washington County, especially within the southwest region of the County.

The Florida Department of Environmental Protection (FDEP) provided grant funds to conduct a countywide flood assessment, to review available data, and coordinate with local county stakeholders. This information was assessed to report on confounding factors that have influenced recent flooding events.

The project report was accelerated to be completed in six months to provide initial research and data, to support an upcoming County-wide Vulnerability Assessment. The project identified primary and recurrent areas of flooding with available data and stakeholder feedback from federal, state, local agencies, and other sources. Staff also mapped and graphed available data through exhibits and tabular summaries. Through field assessments and use of available data, staff also documented primary flooding risk or known challenges in these areas, with a focus on closed basin regions, to propose potential mitigation projects to alleviate flooding and improve water quality.

- **COST**

  PROJECTED BUDGET: $50K

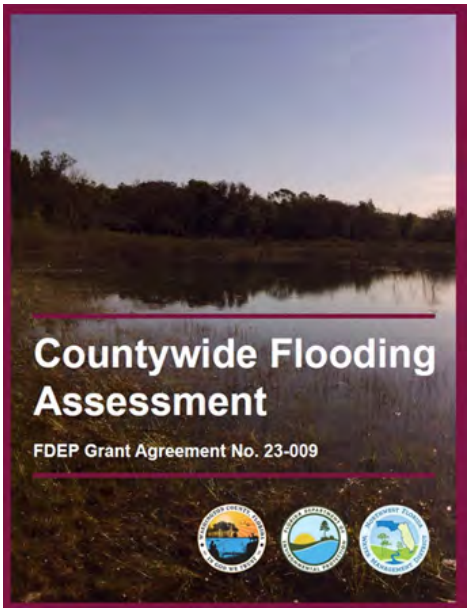
  FINAL COST: $50K

- **TIME FRAME OF PERFORMANCE**
  12/2022 - 08/2023

- **PROJECT OWNER**
  Washington County, FL

- **CLIENT POINT OF CONTACT**
  Jeff Massey
  850.638.6200
  jmassey@washingtonfl.com

Projects and their estimated costs were identified to mitigate flooding, and water quality challenges were identified. Potential sources of state and federal grant funding were also identified for the County. Additionally, countywide social vulnerability status and challenges were described, to demonstrate and document needs for mitigation projects. The initial report was submitted to Northwest Florida Water Management District (NWFWMD) and FDEP for review in June 2023. Final report preparation is underway, for project completion in August 2023.



"The County Administrator .... said everything he requested was in the assessment, and our road and bridge supervisor was very pleased as well. Great job!"

KAREN SHAW
COUNTY GRANT MANAGER

St. Lucie County Vulnerability Assessment (ED)

ST. LUCIE, FL

ELD PA and Clearview led the development of the St. Lucie County Vulnerability Assessment (VA) as a product of Resilience Planning Grant R2133 as subcontractors to Tetra Tech. The project included the County and the municipalities within the County. The VA addresses (1) flood related impacts under various sea level rise scenarios and tidal flooding, (2) critical buildings and infrastructure, (3) natural resources, and (4) at-risk populations. The analysis forms the foundation of an evidence-based, strategic resilience plan that systematically prioritizes and develops adaptive strategies to address areas of vulnerability.

Development of the key findings and data analysis for the VA was led by ELD PA and Clearview Geographic. The first effort was initiated before the Section 380.093, F.S. legislation was enacted for the Resilient Florida program but serves as a basis to update that information in a forthcoming VA update and implementation of a CDBG-MIT resilience planning effort.

The ELD PA / Clearview team led the entire VA approach, all data collection efforts, a modeling strategy and significant mapping output. The team also conducted numerous elected official briefings and public outreach events in conjunction with Oxbow Eco-Center in St. Lucie County. The work has also served as the foundation for a supplemental Resilient Florida Grant and the County is currently engaged in efforts to develop a Stormwater Master Plan that will provide significant data for the next VA effort funded by the Resilient Florida program.

- **COST**

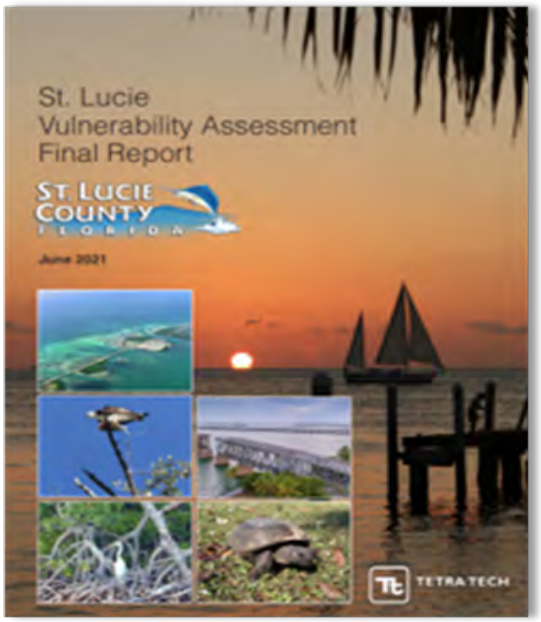
  PROJECTED BUDGET: $75,000

  FINAL COST: $75,000

- **TIME FRAME OF PERFORMANCE**
  06/2020 - 06/2021

- **PROJECT OWNER**
  St. Lucie County

- **CLIENT POINT OF CONTACT**
  Sandra Bogan
  772.462.1848
  bogans@stlucieco.org



Monroe County Vulnerability Assessment (ED)

MONROE COUNTY, FL

ELD PA has led the County's resilience planning efforts supporting staff since 2013 and developed the Resilience Planning Grant R2111 awarded to Monroe County to update its original vulnerability assessment (VA) conducted in 2015. For this 2020-2021 work, ELD PA led the team, which also included Clearview, performing habitat analysis (one of the only VAs to perform that analysis to date) among other modeling efforts.

Using a baseline GIS database containing building elevation certificates, planning-grade sea level adjusted floodplains, and local sea-level-rise tide projections, the team identified multiple climate-driven vulnerabilities and provided visualizations of potentially flooded infrastructure in 2040, 2070, and 2100. To help communicate the severity of sea level risk inundation, the team created a fly-over-style animation of the southern portions of unincorporated Monroe County, Florida. The team conducted the GIS analysis to identify potential vulnerabilities with consideration of natural areas, assets, and infrastructure, as well as the social fabric of the community.

Multiple modeling tools were used including SLAMM, Hazus and other GIS based tools. The project team also created a story map of the project methods and results. Modeling change in habitat and mangrove encroachment, the team identified habitats that are especially vulnerable to rising sea levels. This data served as a foundational component for identifying the County's adaptation action areas.

- **COST**

  PROJECTED BUDGET: $92,000

  FINAL COST: $92,000

- **TIME FRAME OF PERFORMANCE**
  06/2019 - 06/2020

- **PROJECT OWNER**
  Monroe County

- **CLIENT POINT OF CONTACT**
  Rhonda Haag
  305.453.8774
  haag-rhonda@
  monroecounty-fl.gov

Northwest Florida Water Management District - Apalachee Bay St. Marks Watershed Risk MAP

MULTIPLE COUNTIES, FL

In support of NWFWMD's CTP Program, Dewberry is providing full Risk MAP Project support for the Apalachee-St. Marks Watershed, which includes updated flood hazard analysis for select stream reaches in Leon, Jefferson, and Wakulla Counties. Dewberry is providing a wide range of program support for this project, including assistance with scope development; GIS data collection, formatting, and geodatabase development; LiDAR based terrain processing; hydraulic structure surveys; detailed 1D/2D riverine modeling and flood hazard mapping; FIRM and Flood Insurance Study (FIS) Report Compilation; Development of Flood Risk Assessment Products; Post Preliminary Due-Process Coordination, and Community Outreach. Dewberry completed multiple other tasks under this contract that included ICPR4.

- **COST**

  PROJECTED BUDGET: $955k

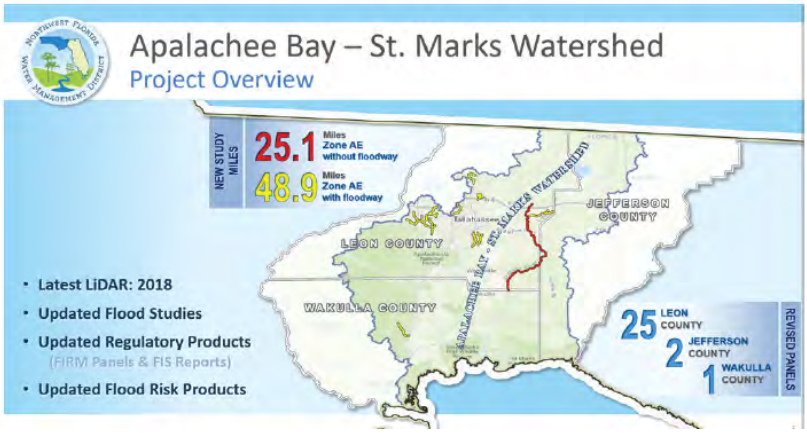
  FINAL COST: $955K

- **TIME FRAME OF PERFORMANCE**
  06/2018 - 12/2019

- **PROJECT OWNER**
  Northwest Florida Water Management District

- **CLIENT POINT OF CONTACT**
  Jerrick Saquibal
  850.539.5999 ext. 229
  jerrick.saquibal@nwfwater.com

As part of this project, Dewberry implemented flood hazard modeling workflows and product development for nearly 80 detailed stream miles located throughout the Apalachee-St. Marks Watershed. This included capturing detailed survey data, schematics, and photos for over 170 hydraulic structures (culverts, bridges, dams, and weirs) located along scoped streams. In addition, community supplied stormwater inventory data was used to further refine modeling inputs for more accurate analysis results. To determine the flood risk for the identified stream reaches, dewberry utilized a more complex rainfall runoff modeling approach using HEC-HMS, which was deemed suitable for the project area's complex geologic regions. Both 1-D and 2-D modeling approaches were applied for the conducted analysis, using steady and unsteady state modeling techniques. In some areas, coupled 1-D/2-D models were created to more accurately model flow exchange between stream channels and unconfined overbank areas. HEC-RAS 5.0.7 was primarily used for the completed hydraulics analysis, however, PCSWMM was also used in several areas to model underground flow within Leon County's piped stormwater network. In addition, XPSWMM models completed by Dewberry under a separate, local effort was also leveraged in support of this project. Per community request, the XPSWMM modeling results for approximately 10 miles of analysis were used to build and calibrate HEC-RAS models for use in the Apalachee-St. Marks Risk MAP Project. For this conversion, Hydrologic flow information was transferred from XPSWMM to a FEMA ready HECRAS model, while Hydraulic results from the XPSWMM model were used to calibrate the HEC-RAS results. This allowed for a more FEMA ready modeling result, that also aligned more closely with the community's internal flood hazard management data.



Saddle Creek/Audubon Tract Restoration,
POLK COUNTY, FL

Saddle Creek is integral to the Peace River-Saddle Creek Watershed, located within Polk County and spanning 146.2 square miles. The watershed contains 79 named lakes/ponds and seven named rivers/streams/canals. The 2006 TMDL adopted by the US Environmental Protection Agency (EPA) for Lake Hancock and Lower Saddle Creek requires significant reductions in annual nutrient loads (reduction of 702,167 pounds of TN and 227,320 pounds of TP annually) or a 75.5% reduction in loading from stormwater sources.

The Dewberry team conducted a feasibility study to update Saddle Creek conceptual alternatives based on more recent data and assess potential water quality improvements that can be achieved by developing offline water treatment BMPs within the floodplain. Based on direction from the County, the development of conceptual alternatives needed to rely on gravity and could not contain any mechanical pumping or chemical treatment, two common engineering and scientific approaches to maximizing treatment efficiencies to reduce pollutant loadings.

- **COST**

  PROJECTED BUDGET: $232K

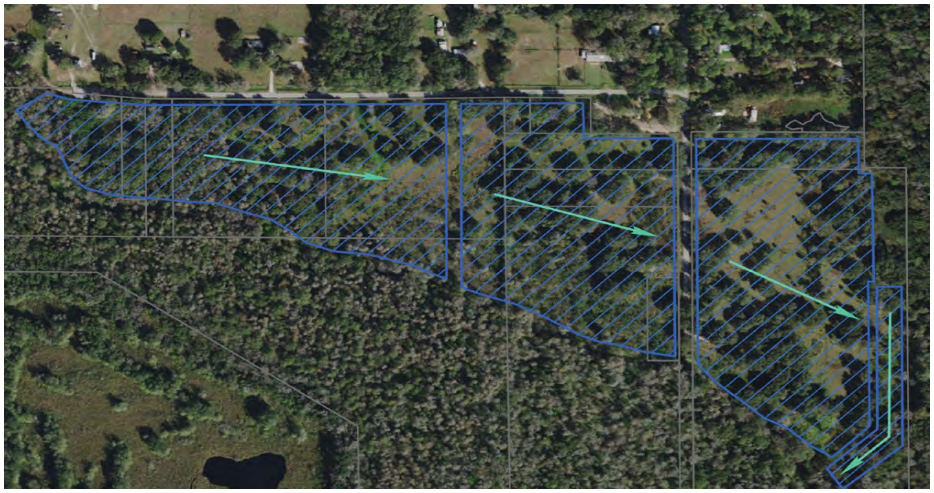
  FINAL COST: $232K

- **TIME FRAME OF PERFORMANCE**
  03/2021 - 12/2022

- **PROJECT OWNER**
  Polk County Parks and Natural Resources Division

- **CLIENT POINT OF CONTACT**
  Greg Knothe
  863.534.7377
  gregoryknothe@polk-county.net

Over the eight-month project duration, the project team, in collaboration with the Polk County Natural Resources Division and SWFWMD, analyzed water quality and sediment data acquired from multiple sites where water quality improvement projects could be implemented. The existing H&H model was also updated to current industry standards and converted to ICPR4 continuous simulation model to confirm no off-site impacts, increase floodplain storage, provide hydrological improvements, and estimate pollutant load reductions. In total, the Dewberry team designed three conceptual alternatives developed to reduce pollutant load as well as improve hydrology and ecology. The field data collection efforts confirmed that the Audubon site currently serves as a source of nutrient loading to the creek during high flow conditions, but the original concept assumed the site was not a contributing source. The conceptual alternative continued to reduce loads but did not hydrologically improve the conditions within the pit significantly. However, the team added the Saddle Creek Farms Road wetlands as a second element of the Audubon site, which also provided water quality improvement and achieved the objective of increasing floodplain storage. The last conceptual alternative included Saddle Creek Park, where it was discovered that the current reclaimed mine pit was improving water quality from Lake Parker, due to the residence time of the water moving through the park, the proposed project approach constructs wetlands at the downstream portion of the park before its outfall.



Sawgrass Players Club Stormwater Vulnerability Study

HILLSBOROUGH COUNTY, FL

Dewberry serves as the Association's stormwater engineer providing technical oversight regarding a range of engineering issues including flood control conceptual design and permitting, and review of St. Johns River Water Management District permit applications (which require Association approval). The 2,400-acre Sawgrass community with a variety of uses including the PGA TOUR and other golf courses, residential and commercial development, schools, a public library, and about 100 interconnected lakes and channels discharged by two large pump stations. Lakes are connected by weirs, gates, drop structures, channels, and culverts. Conceptual design of flood control improvements included a comprehensive study of the Sawgrass stormwater system to determine its ability to manage stormwater runoff, maintain acceptable water quality, and provide flood control. The study included lake stage-storage improvements based on lidar, calibration, and application of the Interconnected Channel and Pond Routing Model, Version 4 (ICPR4) to simulate the system's response to 100-year, 24- and modified 48-hour design rainfall events, as well as Hurricane Irma. Simulations included existing, baseline conditions as well as potential system improvements including increased pumping, culvert replacements, channel deepening, and combinations. The study resulted in a detailed stormwater management plan. Other work includes hydraulic modeling (HECRAS) of a pump station discharge canal to the Intracoastal Waterway through Roscoe Blvd for increased pump capacity permitting and potential improvements to Roscoe Blvd, and pump station improvement recommendations to increase resiliency.

- **COST**

  PROJECTED BUDGET: $25k

  FINAL COST: $25K

- **TIMEFRAME OF PERFORMANCE**
  08/2023 - 11/2023

- **PROJECT OWNER**
  Sawgrass Players Club Association

- **CLIENT POINT OF CONTACT**
  Paul Rushton
  205.587.5226.
  paul.rushton3@icloud.com

FIGURE 2: Sawgrass Pump Stations serve as critical assets to control flooding and provide community resilience.

City of Plant City, McIntosh Park Integrated Water Project (Basis of Design Report), Modeling for Design

PLANT CITY, FL

The McIntosh Integrated Water Project at McIntosh Preserve expands upon a previous SWFWMD project and provides the beneficial reuse of reclaimed water in lieu of surface water discharge. The project includes 172 acres of multi-purpose constructed treatment wetlands. To address the dehydration experienced by the original treatment wetland and increase treatment, this project reconfigures the original wetland cells, adds additional treatment wetlands, and includes the addition of highly treated reclaimed water for hydration of some of the wetlands. The new wetlands cells receive supplemental, makeup water from Plant City's reclaimed water system during dry periods.

- **COST**

  PROJECTED BUDGET: $293K

  FINAL COST: $293K

- **TIMEFRAME OF PERFORMANCE**
  04/2020 - 04/2021

- **PROJECT OWNER**
  City of Plant City

- **CLIENT POINT OF CONTACT**
  Lynn Spivey
  813.757.9190
  spivey@plantcitygov.com

This project included the development of an integrated surface water and groundwater model (ICPRv4) to design and evaluate the proposed 172-acre wetland treatment system. The ICPR model was developed by converting an 8,500- acre portion of the existing Hillsborough River watershed SWMM model and incorporating the 2D groundwater and evapotranspiration components. The ICPR model was used to simulate three-years of NexRAD rainfall data to represent wet, dry, and average years, as well as the range of SWFWMD design storm simulations to evaluate potential impacts and benefits of the project. The project will increase the stormwater system capacity to reduce localized flooding conditions. The site continues to accept off-site stormwater and adds improvements in the southern portion of the project to increase the efficiency of the conveyance of water, reducing the duration of localized flooding. The expansion of wetlands and installation of a backflow preventer in the northeastern corner of the property will reduce off-site flooding and lessen the duration of and extent of standing water. The expanded wetland treatment decreases nutrient loading to East Canal, beyond the original project, with a net reduction of 7,620 pounds a year of total nitrogen (TN) and 2,280 pounds of total phosphorus (TP). The BODR concept has progressed and is currently in the 90% design phase.

FIGURE 3: The park development is a collaborative effort between the City's Parks and Recreation and Utilities to plan and construct a natural system with recreational and water resources benefits.

Hillsborough County, Cypress Creek Watershed Model Update and Tampa Bay Water Facility Master Drainage Plan

HILLSBOROUGH COUNTY, FL

The purpose of this project was to update the Hillsborough County portion of the Cypress Creek watershed model. As a subconsultant to Atkins, Dewberry was responsible for the model updates and model verification. The Hillsborough County portion of the Cypress Creek Watershed encompasses approximately 33 square miles in northern Hillsborough County. The overall Cypress Creek Watershed, including areas within Pasco and Hillsborough Counties, is approximately 160 square miles. The hydraulic &hydrologic model was updated to be consistent with the 2017 lidar-derived DEM and 2017 aerial imagery. In addition to the new topography, the update incorporated areas of new development (since the previous 2015 WMMP update), utilizing ERPs and comparing previous and current DEMs. Boundary conditions were updated with recently completed and ongoing model updates. The updated model was verified by re-running the verification event from the previous study. The result is an updated model and geodatabase, sufficient for the County to submit to FEMA as part of the county-wide riverine Flood Insurance Study (FIS) update.

Dewberry also developed a detailed existing conditions ICPR4 hydrologic and hydraulic model of the existing permitted stormwater management facilities to obtain a comprehensive ERP for the 62-acre Tampa Bay Water Cypress Creek Water Treatment Facility.

- **COST**

  PROJECTED BUDGET: $196K

  FINAL COST: $188K

- **TIMEFRAME OF PERFORMANCE**
  03/2016 - 02/2020

- **PROJECT OWNER**
  Tampa Bay

- **CLIENT POINT OF CONTACT**
  Jie Gao, PE, CFM, GISP
  813.635.5400
  gaoj@
  hillsboroughcounty.org

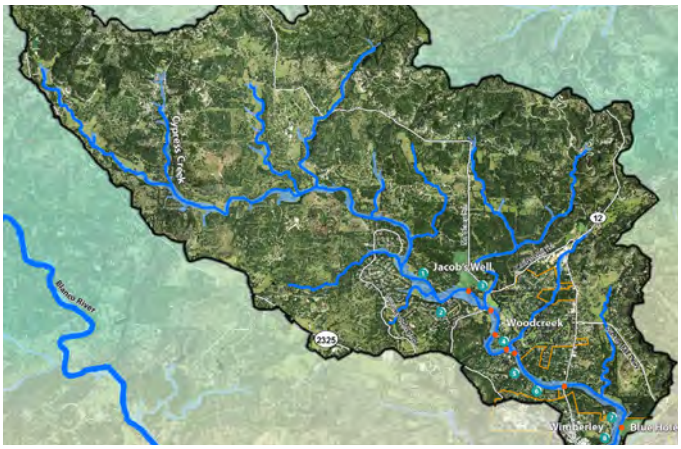


FIGURE 4: The overall Cypress Creek Watershed, including areas within Pasco and Hillsborough Counties, is approximately 160 square miles.

TAB 4: Current and Projected Workloads

CURRENT AND PROJECTED WORKLOADS

CURRENT AND PROJECTED WORKLOADS				
CONTRACTS/PROJECTS	**PROJECT OWNER**	**POINT-OF-CONTACT**	**STATUS**	**TIME FRAME**
Hannah Hart, *Project Manager*				
Liberty County Vulnerability Assessment	**Name:** Liberty County **Location:** Liberty County, FL	**Name:** Rhonda Lewis **Phone:** 850.643.2339 **Email:** lcem@gtcom.net	Current	On time
Calhoun County Vulnerability Assessment	**Name:** Calhoun County **Location:** Calhoun County, FL	**Name:** Hunter Flowers **Phone:** 850.674.3966 **Email:** hflowers@calhouncountyfl.gov	Current	On time
City of Destin Vulnerability Assessment	**Name:** City of Destin **Location:** City of Destin, FL	**Name:** Jeffery Cozad **Phone:** 850.279.4228 **Email:** jcozadd@cityofdestin.com	Current	On time
Climate Risk Assessment	**Name:** Port Authority of New York and New Jersey **Location:** New York/New Jersey	**Name:** Elizabeth Thompson **Phone:** 212.202.5708 **Email:** evthompson@panynj.gov	Current	On time
Jackson County Vulnerability Assessment	**Name:** Jackson County **Location:** Jackson County, FL	**Name:** Sarah Sun **Phone:** 850.482.9633 **Email:** suns@jacksoncountyfl.gov	Current	On time
Erin L. Deady, ESQ., AICP, *Deputy Project Manager*				
Monroe County Vulnerability Assessment	**Name:** Monroe County **Location:** Monroe County, FL	**Name:** Rhonda Haag **Phone:** 305.395.9928 **Email:** haag-rhonda@monroecounty-fl.gov	Current	On time
City of West Palm Beach Vulnerability Assessment	**Name:** City of West Palm Beach **Location:** West Palm Beach, FL	**Name:** Penni Redford **Phone:** 561.804.4981 **Email:** predford@wpb.org	Current	On time
Islamorada Vulnerability Assessment	**Name:** Islamorada **Location:** Islamorada, FL	**Name:** Peter Frezza **Phone:** 305.664.6427 **Email:** peter.frezza@islamorada.fl.us	Current	On time
Palm Beach County Vulnerability Assessment	**Name:** Palm Beach County **Location:** Palm Beach County, FL	**Name:** Georgia Vince **Phone:** 561.236.8692 **Email:** georgia.vince@tetratech.com	Current	On time
Hollywood Vulnerability Assessment	**Name:** Hollywood **Location:** Hollywood, FL	**Name:** Georgia Vince **Phone:** 561.236.8692 **Email:** georgia.vince@tetratech.com	Current	On time
Brian Batten, PhD, CFM, *Quality Manager/Senior Technical Advisor*				
Liberty County Vulnerability Assessment	**Name:** Liberty County **Location:** Liberty County, FL	**Name:** Rhonda Lewis **Phone:** 850.643.2339 **Email:** lcem@gtcom.net	Current	On time
VA Beach Sea Level Rise & Recurrent Flooding Analysis and Planning	**Name:** City of Virginia Beach **Location:** Virginia Beach, VA	**Name:** Kristina Searles **Phone:** 757.385.4475 **Email:** KSearles@vbgov.com	Current	On time
Coastal Adaptation and Resilience Plan	**Name:** The Nature Conservancy **Location:** Oyster Village, VA	**Name:** Susan Bates **Phone:** 757.414.9229 **Email:** susan.bates@tnc.org	Current	On time

CURRENT AND PROJECTED WORKLOADS				
CONTRACTS/PROJECTS	**PROJECT OWNER**	**POINT-OF-CONTACT**	**STATUS**	**TIME FRAME**
Newport News Stormwater Master Plan, Floodplain Management, and Climate Resilience Master Plan	**Name:** Newport News **Location:** City of Newport News, VA	**Name:** Kathie Angle **Phone:** 757.926.8655 **Email:** anglekk@nnva.gov	Current	On time
City of Destin Vulnerability Assessment	**Name:** City of Destin **Location:** City of Destin, FL	**Name:** Jeffery Cozad **Phone:** 850.279.4228 **Email:** jcozadd@cityofdestin.com	Current	On time
Alex Zelenski, GISP, *Geospatial Analysis and Exposure Analysis*				
Monroe County Vulnerability Assessment	**Name:** Monroe County **Location:** Monroe County, FL	**Name:** Rhonda Haag **Phone:** 305.395.9928 **Email:** haag-rhonda@monroecounty-fl.gov	Current	On time
City of West Palm Beach Vulnerability Assessment	**Name:** City of West Palm Beach **Location:** West Palm Beach, FL	**Name:** Penni Redford **Phone:** 561.804.4981 **Email:** predford@wpb.org	Current	On time
Islamorada Vulnerability Assessment	**Name:** Islamorada **Location:** Islamorada, FL	**Name:** Peter Frezza **Phone:** 305.664.6427 **Email:** peter.frezza@islamorada.fl.us	Current	On time
Palm Beach County Vulnerability Assessment	**Name:** Palm Beach County **Location:** Palm Beach County, FL	**Name:** Georgia Vince **Phone:** 561.236.8692 **Email:** georgia.vince@tetratech.com	Current	On time
Hollywood Vulnerability Assessment	**Name:** Hollywood **Location:** Hollywood, FL	**Name:** Georgia Vince **Phone:** 561.236.8692 **Email:** georgia.vince@tetratech.com	Current	On time
Seth Lawler, PhD, *Exposure Analysis*				
FEMA PTS Open Source Tooling	**Name:** Federal Emergency Management Agency **Location:** Nationwide	**Name:** David Rossa **Phone:** 202.646.3317 **Email:** david.rosa@fema.dhs.gov	Current	On time
FEMA IRWA	**Name:** Federal Emergency Management Agency **Location:** Nationwide	**Name:** David Rossa **Phone:** 202.646.3317 **Email:** david.rosa@fema.dhs.gov	Current	On time
FEMA Tech Support	**Name:** Federal Emergency Management Agency **Location:** Nationwide	**Name:** David Rossa **Phone:** 202.646.3317 **Email:** david.rosa@fema.dhs.gov	Current	On time
Liberty County Vulnerability Assessment	**Name:** Liberty County **Location:** Liberty County, FL	**Name:** Rhonda Lewis **Phone:** 850.643.2339 **Email:** lcem@gtcom.net	Current	On time
Texas GLO MATCH Tool	**Name:** Texas General Land Office **Location:** Texas	**Name:** Shonda Mace **Phone:** 512.463.5370 **Email:** shonda.mace.glo@recovery.texas.gov	Current	On time
Jason Evans, PhD, *Sensitivity Analysis*				
Monroe County Vulnerability Assessment	**Name:** Monroe County **Location:** Monroe County, FL	**Name:** Rhonda Haag **Phone:** 305.395.9928 **Email:** haag-rhonda@monroecounty-fl.gov	Current	On time
City of West Palm Beach Vulnerability Assessment	**Name:** City of West Palm Beach **Location:** West Palm Beach, FL	**Name:** Penni Redford **Phone:** 561.804.4981 **Email:** predford@wpb.org	Current	On time

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CONTRACTS/PROJECTS	**PROJECT OWNER**	**POINT-OF-CONTACT**	**STATUS**	**TIME FRAME**
Islamorada Vulnerability Assessment	**Name:** Islamorada **Location:** Islamorada, FL	**Name:** Peter Frezza **Phone:** 305.664.6427 **Email:** peter.frezza@islamorada.fl.us	Current	On time
Palm Beach County Vulnerability Assessment	**Name:** Palm Beach County **Location:** Palm Beach County, FL	**Name:** Georgia Vince **Phone:** 561.236.8692 **Email:** georgia.vince@tetratech.com	Current	On time
Hollywood Vulnerability Assessment	**Name:** Hollywood **Location:** Hollywood, FL	**Name:** Georgia Vince **Phone:** 561.236.8692 **Email:** georgia.vince@tetratech.com	Current	On time
Jade Payne, LEED GA, *Vulnerability Assessment and Public Outreach*				
State Hazard Mitigation and Climate Adaptation Plan	**Name:** CT Department of Emergency Management and Homeland Security **Location:** Connecticut	**Name:** Kenneth Dumais **Phone:** 860.250.2472 **Email:** Kenneth.dumais@ct.gov	Current	On time
Newport News Stormwater Master Plan, Floodplain Management, and Climate Resilience Master Plan	**Name:** City of Newport News **Location:** City of Newport News, VA	**Name:** Kathie Angle **Phone:** 757.926.8655 **Email:** anglekk@nnva.gov	Current	On time
FEMA HMA	**Name:** Federal Emergency Management Agency **Location:** Nationwide	**Name:** Glen Seipp **Phone:** 301.447.7264 **Email:** glen.seipp@fema.dhs.gov	Current	On time
Jackson County Vulnerability Assessment	**Name:** Jackson County **Location:** Jackson County, FL	**Name:** Sarah Sun **Phone:** 850.482.9633 **Email:** suns@jacksoncountyfl.gov	Current	On time
Calhoun County Vulnerability Assessment	**Name:** Calhoun County **Location:** Calhoun County, FL	**Name:** Hunter Flowers **Phone:** 850.674.3966 **Email:** hflowers@calhouncountyfl.gov	Current	On time

Staff Capacity

	AVAILABLE CAPACITY											
	2024				2025				2026			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Hannah Hart *Project Manager*	50%	60%	65%	65%	70%	70%	70%	70%	75%	75%	75%	75%
Erin L. Deady, ESQ., AICP *Deputy Project Manager*	40%	40%	45%	45%	45%	50%	55%	60%	65%	70%	75%	80%
Brian Batten, PHD, CFM *Quality Manager/Senior Technical Advisor*	30%	30%	35%	40%	40%	45%	45%	50%	50%	60%	65%	70%
Alex Zelenski, GISP *Geospatial Analysis and Exposure Analysis*	30%	30%	35%	40%	40%	45%	45%	50%	50%	60%	65%	70%
Seth Lawler, PhD *Exposure Analysis*	30%	30%	35%	40%	40%	45%	45%	50%	50%	60%	65%	70%
Jason Evans, PhD *Sensitivity Analysis*	30%	30%	35%	40%	40%	45%	45%	50%	50%	60%	65%	70%
Jade Payne, LEED GA, *Vulnerability Assessment and Public Outreach*	40%	40%	45%	45%	50%	50%	60%	65%	70%	80%	90%	90%

TAB 5: DBE/SBE/MBE/WBE Certification

DBE/SBE/MBE/WBE CERTIFICATION

TAB 6: Approach to Services

APPROACH TO SERVICES

Value Add

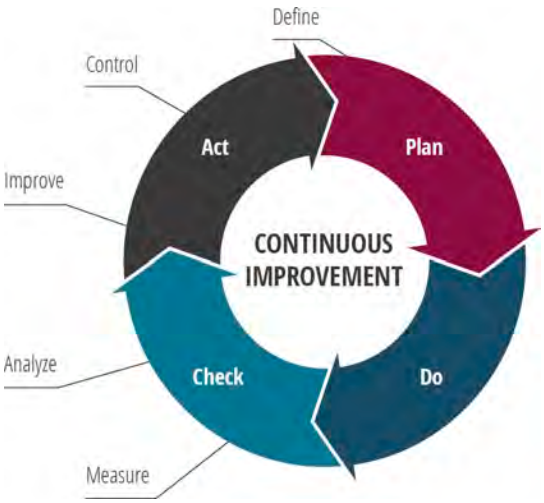
The Dewberry team has the qualifications and expertise to deliver a Comprehensive Vulnerability Assessment to Levy County. Sections of our approach that are accompanied by the icon on the left describe how our team adds value to the County and this project.

Quality Control and Quality Assurance Approach

Dewberry's Quality Management System (QMS) is a firm-wide program that outlines the operating procedures used to achieve a consistently high level of quality and includes methods for monitoring compliance and procedures for continual improvement. Our goal is to enhance quality, productivity and client satisfaction. Our foundation has been and will continue to be focused on providing our clients with a wide spectrum of professional planning, design, consultation, and development services that meet their requirements and the standards of the profession. Our written QMS specify the core components and standards of our Quality Assurance/ Control commensurate with the criteria set forth by ISO 9001:2015. Our commitment to excellence is achieved using our written project-specific Project Management Plan. An integral part of the PMP is the project specific QAP in which we identify and implement quality control measures to carefully plan, do, check, and review work before it is delivered to our client.

At the core of Dewberry's technical expertise is our corporate commitment to provide clients with quality projects delivered with integrity, mature judgment, and a devotion to excellence.

We manage all our projects under an ISO 9001:2015 compliant framework leveraging the Plan–Do–Check–Act cycle of project and quality management. All major projects are managed under our corporate quality management system and manual. Our Quality Manager will establish the QA/QC plan for the project in consultation with our technical lead and task managers. We have existing toolsets established and vetted through prior resilience projects, such as scripts for flood mapping and vulnerability analysis that provide quality assurance. Quality review requirements will be established for each task and enforced captured through documented review.



Deliverable quality emerges from how we perform our work and apply our quality management systems. Dewberry's Quality Management System (QMS) has been developed to improve productivity, minimize rework, and deliver a final product to the satisfaction of our clients. Proactive quality management is enabled by ensuring processes are clearly understood through training and by providing a custom Knowledge Management System (KMS) to the project team that enables work to be performed with a full understanding of contract requirements.

Our program contains standardized procedures for Quality Assurance and Control (QA/QC) and independent quality audits. Our system is set up to be Actionable, Accountable and Always Improving. Our internal Quality

Management program begins in concert with Notice-to-Proceed and consists of the following elements:

- Multi-disciplined technical input and design coordination through structured project team meetings including all assigned sub-consultant personnel
- Continual, over the shoulder reviews and consultations by senior staff for all project staff
- Structured reviews at key projects milestones with internal and external QA/QC teams independent of production to minimize the need for rework
- Building time into the schedule specifically allocated to QA/QC reviews
- Periodic peer review during deliverable development for suitability, consistency, and accuracy

The quality control program will address both QA/QC elements, to ensure products delivered to the County can be utilized with confidence. Our process is totally transparent, with quality plan documents available for client review at any point during scope execution.

Coordination of Subconsultants

The Dewberry team includes a diverse group of Task Managers, technical staff, and subconsultants who will support the County's needs and provide the broad spectrum of services required under this contract. Our combined team of Dewberry and subconsultants, has 2,000+ employees to provide multi-disciplinary planning, research, data collection and analysis, and outreach and public engagement support services for this contract. We can respond to any needs required by the County.

As the County's primary point of contact, Hannah has the authority to act on behalf of the team to commit the necessary technical staff for task assignments. She will coordinate directly with our team's subconsultants to confirm tasks are completed on time and within budget. Dewberry's Quality Management System (QMS), includes processes for managing conflict resolution and issues with deliverable deemed unsatisfactory. Hannah will be responsible to oversee that QMS is implemented by all Dewberry and subconsultant staff to make sure deliverables are of good quality.

Ability to Meet Schedules

The Dewberry team has performed all the services anticipated by the County under this project for a variety of clients in Florida. By matching our skills with our clients' needs, we have earned the respect of municipalities throughout the region as a full-service, responsive, and technically superior team of resilience professionals.

Hannah will coordinate with our team's task managers to develop a Microsoft Project schedule and PMP. The schedule will include tasks, start and finish dates, assigned resources as personnel categories, and milestones. The schedule will also identify all critical path tasks in the project. Upon receipt of NTP, Hannah will update the project schedule to reflect the actual start date and any changes which may have occurred. In addition to schedule and PMP creation, the Dewberry Resilience team utilizes Microsoft Business Intelligence (BI) software and Microsoft Project (Online) to track staff workloads; we also hold bi-weekly division meetings with all PMs and Leadership, to manage successful resourcing for all of our clients.

During our project teams' regular coordination meetings, Hannah will review the schedule and discuss necessary adjustments as needed. Workloads will be modified to maintain milestones and deadlines. Hannah will make sure that key staff are aware of critical path items. Unforeseen circumstances that could possibly introduce delays will be identified and immediately brought to the attention of the County Project Officer in writing.

Project Management and Coordination

Internal Planning and Communication

We establish a Project Management Plan (PMP) for every project. The plan identifies the scope, schedule, task budgets, milestones, **quality plan checklists, project risks, and strategies to mitigate identified risks.** The PMP also identifies task leads, staffing allocation, and interim deliverables with dates. This living document is regularly updated and establishes a single location for reference and communication with all team members, including County staff. We believe that "planning the work and working the plan" prevents communication failures and keeps all staff accountable.

Project Initiation Meeting

Upon Notice to Proceed, we will work with the County Project Manager, and draw from our experience, to identify an initial delivery approach. We recognize the importance of understanding context, client intentions, preferences, and priorities across these outcomes. Such nuances help us tailor our approach to delivery with the study schedule budget constraints.

We envision the Project Initiation Meeting as separate from the administrative project kick-off meeting. We will jointly review the listed outcomes for each task and facilitate discussion of the expected outcomes to increase understanding from the County team members who desire to provide feedback. **We also find that holding a short call with each County commissioner, individually, is a very helpful effort that allows our team to initially explain the intent of the study, allows the commissioners to spread the message of the benefits of the study, and for the consultant team to gain local knowledge of flooding concerns each county district.** This knowledge transfer will establish joint understanding between the out team and the County and inform refinements to our project approach.

Task Kick-Off Meetings

Following the project initiation meeting and on full understanding of data resources, we will refine work plans for each major task. We anticipate holding distinct kick-off meetings for each of the major study tasks to review the work plan and methods. Where options in methods may exist, our team will outline the alternatives, benefits and limitations, and engage the County in final decision-making.

Schedule Alignment with Critical Path Items

Our team is proposing an 11-month schedule with multiple critical path items commencing simultaneously.

Milestones	2024										
	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV
Kickoff Meeting & Establishing Project Plan											
Public Meeting #1											
Data Collection											
Exposure/Sensitivity Analysis											
Public Meeting											
Final VA and Reporting											

Close attention to the critical path items is essential to a successful project. We will provide this attention through:

- Identification of critical path funding, including the need to complete the VA prior to Grant application deadlines with the Resilient Florida Grant program in 2025, to the extent necessary.
- Project risks and mitigation strategies.
- Use of project management software for structured schedule management and milestone tracking.

- Monthly team meetings with proactive schedule updates, resource reviews, and bi-weekly meetings during the first two months and at every major milestone or task kickoff project efforts, at the County's discretion.
- Use of appropriate available datasets at the Federal, State, Regional and local levels to fulfill statutory requirements for creation of the Critical Asset Inventory, including review of the latest statewide dataset, recently released in August by FDEP.
- Workload balancing and resourcing from our deep bench (80 staff dedicated) of the professional resilience division.

Public and Municipal Outreach

Successful plans are not developed in a vacuum. Community and stakeholder engagement is a fundamental part of our resilience planning approach, and our team brings decades of experience designing and executing outreach activities to support resilience planning and programs. We believe in the value of creative approaches, proactive and tailored outreach, diverse engagement opportunities, and accessible communication materials. Coordination with municipalities will need to occur early in the project so that data on assets can be collected efficiently and comprehensively.

Resilience planning efforts require early identification and coordination with stakeholders from various backgrounds and locations to ensure that those who want to participate have the opportunity and are aware of the effort. If overlooked, the communities that may be the most impacted by climate stressors may be the least represented in engagement and planning efforts.

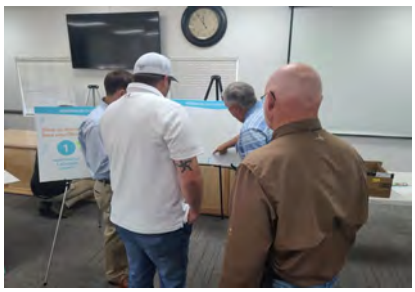
Stakeholders will likely include:

Internal: Key Levy County staff, such as the County Administrator, Commissioners, and County Emergency Management Staff

External: Local City Council and key city staff in Levy County, North Central Regional Planning Council, The Nature Conservancy, FWC, USFWS, SRWMD, and others as identified with the County.

To encourage participation throughout the community, we have found success working with trusted local community leaders to conduct outreach to disadvantaged communities by using various virtual and in-person engagement strategies, workshop-style public outreach with interactive discussion tools (such as interactive boards shown in the pictures below), promoting outreach events through social media, email, and considering alignment of timing with other important community meetings and engagement. Specifically, the team is currently engaged in numerous vulnerability assessment projects around the state. We've used surveying, virtual and social media tools and developed web content to communicate project status effectively. An approach to internal and external coordination and outreach is necessary, but it is also key is to have adequate experience on vulnerability and resiliency planning, as it's a highly specific necessary skill to communicate very technical information in a way that builds community trust and support.

The County will be able to identify key stakeholders, align with similar efforts at the County and municipal levels, and integrate stakeholder insights into the through our integrated approach to workshops and engagement. Our team will work closely with the County to develop our final communication and outreach approach and will coordinate with the County's Public Information Officer (PIO) prior to engagement or submittal of any information prior to finalizing plans.


Road Map to Collaborative Engagement

Levy County Comprehensive Vulnerability Assessment

Identify Stakeholders and Develop a Communication and Outreach Strategy

Dewberry will leverage the outputs from the County brainstorming session to help the County identify key stakeholder groups for the effort and develop a tailored Communication and Outreach Strategy to coordinate workshops, key meetings, and outreach to update the public and promote opportunities for involvement in the effort. The strategy will support alignment with the County's existing Community Rating System (CRS) program to the extent possible to maximize outreach credits.

Launch Outreach Awareness Campaign

We will develop materials for social media release, blog post, and talking points to support the County in sharing the meeting notification through online channels and local media outlets. Workshop notifications and announcements will solicit widespread participation across diverse audiences, such as older adults, non-drivers, and traditionally underserved communities.

Host Initial Interactive, Hybrid Public Workshop

Initial hybrid (virtual and in-person) public workshops will be held to present the framework and approach for the planning process. Data and hazard information from the Vulnerability Analysis will be shared with participants in addition to an overview of the effort, goals, and objectives. The workshop will also emphasize the multiple economic and social benefits of community resiliency, hazard mitigation, and adaptation and identify and discuss preferred alternatives and strategies for resiliency and sustainability.

Present Preliminary Planning Results in Interactive, Hybrid Public Workshop

Secondary hybrid (virtual and in-person) public workshops will be held that will meet the criteria to serve as a public hearing and present the results of the plans. This workshop will present the results from the planning process, the preferred strategies identified, and the path forward for the County. This workshop will be offered once on the eastern side and once on the County's western side, with varied times to support participation. Dewberry will support logistics as described in the initial public workshop.

The final VA will be presented to county leadership including county commissioners after the collaborative engagement process.

Acquisition of Background Data

The Resilient Florida VA is intended to meet all of the requirements of Section 380.093 F.S. including data acquisition, data gap analysis, and identifying a list of critical assets for the County's unincorporated area, also including regionally significant assets. The team will also review the Local Mitigation Strategy (LMS) Update; other existing studies, reports, and technical information; current and future land use; zoning ordinances; comprehensive plans; emergency operation plans; soil surveys; census data; local flood maps; survey data; LiDAR and DEM data; and county and local GIS data.

Data collection and analysis involves the use of GIS software, and it is critical that the County have a strong partnership.

Dewberry is a Cornerstone ESRI Gold Level Partner, bringing 20+ years of partnership and expertise to leverage the latest GIS software and database platforms, including the full suite of ESRI products.

This partnership expands our commitment and relationship with ESRI in developing and delivering effective GIS solutions, cloud-based project databases, and decision support tools, should the County need or desire any specialized additional geospatial data development services under the contract time period.

Sea level rise, high tide flooding, storm surge, rainfall, and combination flood simulation modeling and corresponding data visualization will be produced using ESRI's ArcGIS Pro. The model foundation harnesses the most recent, best available LiDAR data with numerous federal, state, and private methodologies and GIS data sets, each with its own specific limitations and constraints. The baseline modeling for this project will use ESRI's ArcGIS Pro, version 3.0, and leverage its spatial analysis extension as well as a proprietary streamlined workflow. Cartographic representation will be developed primarily through layouts within ArcGIS Pro; however, some final deliverables may be expanded using a third-party graphic editor such as Microsoft Publisher.

The team will research and compile the data needed to perform the VA, based on the requirements as defined in Section 380.093, Florida Statutes F.S. Three main categories of data are required to perform a VA:

1) critical and regionally significant asset inventory

2) topographic data

3) flood scenario-related data

GIS metadata will incorporate a layer for each of the four asset classes as defined in paragraphs **380.093(2)(a) 1-4, F.S**. GIS files and associated metadata created for the project will adhere to the Resilient Florida Program's GIS Data Standards, and raw data sources will be defined within the associated metadata.

Database Enhancement And Customized Compilation

Our team will review the collected and assessed data to determine gaps and needed improvements with a Gap Analysis deliverable. Aspects of this activity are anticipated to include:

- Review data gaps against initial preferred approaches.
- Identify potential improvements.
- Compare improvements against alternative methods.
- Review improvements and alternative methods with the County and select best approaches considering study outcomes.
- Identify data improvement needs for future efforts, with priorities.

In parallel to the above activities, our team will design a project database structure in consultation with the County. The database will then be populated with the collected and augmented data assembled through the data collection effort.

We are aware that Cedar Key is currently conducting an independent VA study and will work with community leaders, as well as other local communities, to have consistent critical asset data that overlaps with City boundaries, including each incorporated municipality that desires to be a part of the Levy County Comprehensive VA.

IN 20+ YEARS OF PROVIDING DATA DEVELOPMENT SERVICES FOR NOAA, USGS, FEMA, AND OTHER AGENCY PARTNERS, AND HAVING PREPARED OVER 8 DATABASES FOR COMPLETED COMPREHENSIVE VAS IN FLORIDA, OUR TEAM IS PREPARED TO RAPIDLY BUILD THE LEVY COUNTY GEODATABASE.

Our approach to the Data Collection Task will include two key components:

1) The development of a "Baseline" Asset Map series that will contain all asset data collected; and

2) The creation of the Critical Asset Inventory which only focuses on those critical and regionally significant assets the community considers to be of the highest importance for adaptation.

Activities under this subtask will screen infrastructure data against initial or proxy hazard layers and establish criticality within the infrastructure datasets. Initial screening of the County's asset data against hazard layers can focus data improvements by defining the area of interest for the later, more detailed Vulnerability and risk Assessment. Not every asset must be included within the Asset Inventory. Only those deemed critical to the community or those that may be the subject of future grant applications. This is important because developing the Asset Inventory can be extremely granular where neither the community may want to sort through an inordinately large dataset, nor does FDEP want to review irrelevant information. For instance, larger assets that can be identified and compiled would be included, but for example, individual water meters on homes would be far too detailed to include in the Asset Inventory. Additionally, the community may not want certain sensitive data (due to security concerns) transmitted to the FDEP. This conversation will happen early in all of the projects to manage data collected and analyzed for the Asset Inventory.

We also anticipate that this task will provide an opportunity to identify priorities and metrics, prior to developing the VA. A milestone step in developing Levy's Critical Asset Inventory includes assigning criticality ranking of social, built, and natural infrastructure, based on the current Resilient Florida Grant Program guidelines and grant review criteria contained within Chapter 62S-8, Florida Administrative Code. The assigned criticality ratings will provide strong benefits in later activities to prioritize adaptation actions.

Levy Couty staff will be asked about their preferences on assessing the County's most critical assets and systems' vulnerabilities. Our team will provide past examples of outputs to see what resonates for Levy's desired outcomes. Options range from simple exposure analysis to a range of hazard and frequency conditions, quantifying economic flood loss through depth-damages, or calculating such as specifying days of flooding, instead of simple depth-damage assessments. As an example, a past local municipality preferred that main local roadway segments be assessed to understand the number of days, per year, the road will flood due to increasing flood frequency with sea level rise.

The final Critical Asset Inventory will be prioritized based on geography and flood impact. This is a required deliverable to the State and the goal is not to just provide a compilation of every asset, but those that are most critical based on community preferences. We will organize the assets by the four categories outlined in Section 380.093(2), F.S. including: infrastructure, transportation, community emergency facilities and natural/cultural resources. This avoids pitting asset classes against one another (such as stormwater versus wastewater versus natural shorelines), but helps prioritize similar types of assets (which stormwater component is more important to adapt first).

Finally, to be compliant with the FDEP's metadata standards geospatial data submitted must follow the Federal Geographic Data Committee Content Standard for Digital Geospatial Metadata (FGDC CSDGM). Minimum standards the metadata must include the following information:

Name of Entity | **Unique ID** | **Asset Name, Type and Class** | **Asset Owners/ Operators** | **Asset Elevation** | **Asset Size/Capacity**

When collecting data to conduct the VAs, the team has experienced a lack of metadata in many instances even when using State or Federal datasets. If metadata associated with the provided asset information does not meet the required criteria, the project team is not responsible for supplying incomplete metadata because of the budget limitations for the project, and on numerous occasions with other projects, we've discussed this topic with DEP. But for all work products generated for the project deliverables, the project team is obligated to provide metadata for the climatic projections simulated and will do so meeting DEP's requirements. The team has had multiple conversations with FDEP about this issue and all entities have agreed to strive to create the best metadata standards for each project. This challenge in data gaps is common in many rural areas where communities have historically not had funding for electronic data conversion, and it will not impact the VA's compliance with the FDEP Checklist.

Exposure & Sensitivity Analysis

The team understands the County requires a VA that complies with Section 380.93, F.S. and the FDEP Standardized VA: Scope of Work Guidance. Identifying and conducting a scenario-based exposure analysis on critical assets will help County, City staff and elected officials prioritize locations where future funds and protection are needed most. Conducting a VA pursuant to Section 380.93, F.S. allows the County and Cities within Levy County to position for future resilience funds, to adapt infrastructure and other critical assets to be protected and more resilient in the face of a changing climate and rising sea levels.

The team will conduct the required exposure and sensitivity analyses. To place those analyses in context:

- The exposure analysis identifies the depth of water caused by each sea level rise, storm surge, and/or flood scenario and what assets are at risk to the various flooding scenarios.
- The sensitivity analysis measures the impact of flooding on assets and applies the data from the exposure analysis to the inventory of critical assets. The sensitivity analysis should include an evaluation of the impact of flood severity on each asset class and at each flood scenario and assign a risk level based on percentages of land area inundated and number of critical assets affected.

The Dewberry Team has conducted 100+ VA's assessing risks from flooding, coastal storm surge sea level rise, inundation threats, wind, heat intolerance and numerous other natural and human-caused hazards in Florida and throughout the U.S.

Asset Exposure & Sensitivity Analysis

Based on a specific critical asset's sensitivity, the team will devise a ranking system for the risk rating per critical asset type as part of an Exposure Analysis. We will identify the best-suited hazard exposure models by utilizing our experience and lessons learned from similar projects we have completed. Our analysis will compile potential economic costs associated with critical asset damage and fiscal implications. The analysis will identify impacts on critical assets against existing conditions and the anticipated FDEP planning horizons of 2040 and 2070.

Vulnerability will be determined by the spatial intersection of the hazards with the various critical assets. For each critical asset and measure of impact, the respective data sets will be queried. Summary statistics will then be calculated for each sea level rise elevation scenario and each type of coastal hazard. For each critical asset sector, results will be presented in maps, tables, or charts depending on client preferences.

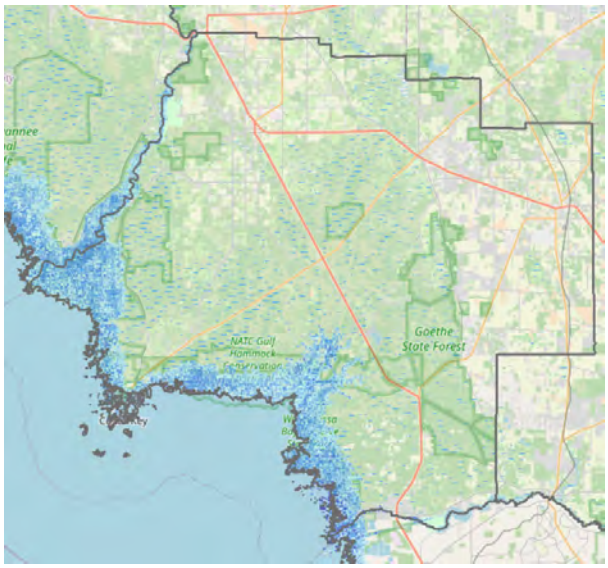


FIGURE 5: Approximate Sea Level Rise - 2070 Horizon

Once the exposure analysis is complete, our team will conduct a sensitivity analysis to measure the impact of flooding on critical assets. A prioritized list of impacted assets will be developed based on flood severity, which will be presented in a draft Vulnerability Assessment report with visual data presentation and maps. This task will help us to understand how different assets will be affected by different natural hazards and will allow us to prioritize our efforts accordingly. Our team is experienced in performing sensitivity analyses and we will use the latest tools and techniques to deliver accurate results.

Flooding and Storm Surge Depth Information

Depth values for tidal flooding will be attributed to the four critical asset types. The analysis will update the critical asset geodatabase with tidal flooding and storms to qualitatively evaluate the risk to assets under future sea level rise scenarios. Flood frequency, as represented by the number of tidal flood days expected for each scenario and planning horizon will be included. The fluvial (riverine) storm scenarios will consider 100-year and 500-year events and will be assumed to capture rainfall events. However, if the VA identifies specific assets that may be at high risk during lesser storms, an option will be to add additional analyses for higher-frequency events. We anticipate that hazards of rainfall-induced flooding and compound flooding will be addressed through qualitative analysis using NOAA Atlas 14-point precipitation frequency estimates.

Asset Depth Damage

Damages will be estimated using methods specific to the nature of the hazard affecting each asset. In the case of physical damage, flooding damage will be estimated based on the structure type and depth of flooding using USACE depth-damage curves. These are standard methods that have been applied in many jurisdictions. In the

case of temporal impacts due to periodic inundation or isolation, time-weighted damages will be applied based on the depth and duration of projected impacts. This information will form critical economic impact/damage inputs to long-term cost-benefit assessments, once the County moves towards adaptation and mitigation actions, after completion of the VA. **As value-added to the report and for the County, the Dewberry team will provide estimated replacement costs and anticipated restoration times (for design and construction) for the top vulnerable asset in each of the four critical asset types.**

Final Vulnerability Assessment

The Team will finalize the Vulnerability Assessment Report by compiling results from the exposure and sensitivity analyses, summarizing identified risks and developing the Critical Asset Inventory. The report will provide a list of critical and regionally significant assets prioritized by area or immediate need, including the flood scenarios impacting each asset, and comply with Section 380.093, F.S. and the Resilient Florida Program's GIS Data Standards. The team will use their professional skills in project management, data analysis, technical writing, GIS mapping, and knowledge of local and state regulations, access to relevant data sources, tools, software, and a team of experts to deliver a comprehensive and detailed report that will set up the County with the necessary information in prioritizing and allocating resources, to ultimately develop effective adaptation strategies.

The modeling for this project will include the entire geographical extent of the County. The Digital Elevation Model (DEM), or elevation data, for this project will be gleaned from the best available local, regional, or state resources. The DEM represents a bare-earth surface and encompasses the entirety of the project site. The team will use the best elevation dataset available at the time the assessment is performed. **In this region of the state, The Dewberry team has also recently collected updated LiDAR data for FEMA post-hurricane Idalia that can assist with development of the model environment. We are currently collecting topographic bathymetry data for the entire big-bend area of the State, including the area off-shore of Levy County. Therefore, prior to this data being released to the general public, we hold the most available current aerial high-resolution photography and shoreline bathymetry data and will use this information, where it makes sense, to compare data with the older DEM available on public federal websites, such as USGS.**

To align the project's modeling effort with Section 380.093, F.S., the approach for the DEP VAs will be to leverage the functionality within the best available GIS software to:

1. Map potential future regular tidal inundation using a modified bathtub approach that accounts for local and regional tidal variability and is used by the NOAA Office for Coastal Management to map sea level rise (https://coast.noaa.gov/data/digitalcoast/pdf/slr-inundation-methods.pdf);

2. Map potential high tide flooding based on NOAA's Coastal High Tide Flooding methodology (https://coast.noaa.gov/data/digitalcoast/pdf/slr-high-tide-flooding.pdf);

3. Map potential storm surge events using a combination of presently available data from both NOAA and FEMA and leverage readily available software methodologies to project multiple sea-level-adjusted designed storm events (particularly the 25-, 50-, 100- and 500-year events); and

4. Map likely areas of rainfall flooding using a model approach and coupled with potential storm surge and/or sea-level rise impacts for designed storm events (particularly the 25-, 50-, 100-, and 500-year events).

Additionally, to build a more comprehensive VA that exceeds statutory requirements and enriches the overall resilience data environment, the team will:

1. Provide a detailed infrastructure-specific map series organized first by asset type (such as stormwater, potable, emergency management, land use, etc.) depicting key assets, areas, and infrastructure that may be vulnerable to various model conditions for priority planning areas (Baseline Asset Inventory) ;

2. Assess the quality of geospatial datasets in terms of resiliency planning and disaster response within the gap analysis and provide recommendations for improving data quality;

3. Map vulnerable populations using the CDC's Social Vulnerability Index (https://www.atsdr.cdc.gov/placeandhealth/svi/index.html);

4. Use NOAA's VDATUM utility (https://vdatum.noaa.gov/) to evaluate local tidal variability reported from the closest or regionally significant NOAA tide gauge.

All four avenues for assessing flood risk (SLR, tidal, storm surge and rainfall) required by statute will be included in a spatiotemporal analysis to determine what key assets and infrastructure within the County are vulnerable to various climate-induced stressors and when that vulnerability may appear along the planning horizon timeline.

As the work is completed the team will ensure that final work products will comply with the VA Compliance Checklist, Section 380.093, F.S. requirements. Issues that have surfaced while conducting VAs include the scale of the asset inventory and security concerns, mapping, and deficiencies in metadata about the assets compiled.

Because our team has collectively completed so many VAs within Florida, currently working on six additional Comprehensive VAs under statutory changes that occurred last year, and has an established relationship with FDEP team leadership, we are confident in navigating details as they arise on these projects, and have proven, based on accepted completed studies, that DEP recognizes our staff as leaders in the Resilience industry in Florida.

Next Steps in Funding Alignment, Post VA Report Completion

As the completion of the VA approaches, we will meet with the County to discuss the next steps and recommend a clear path forward for aligning regional agency, state agency, and federal funding sources, based on the most critical and vulnerable assets, and the need for mitigation projects.

In Florida alone, our team has secured over $400 million in funding for clients within the last five years. We've also helped local municipalities navigate the process for state appropriation funding on numerous occasions. With over 350 staff in Florida, including former employees from FDEP, SRWMD, FDOT, and FDEP, including former agency grant management staff, we are well-versed in government relations and understand their competitive grant programs. Our team also provides technical assistance, through our ongoing national contracts with FEMA, guidance on Benefit-Cost Analysis, and we recently led the preparation of the updated Hazard Mitigation Grant Policy Guide, released in the Spring of 2023.

With this proven track record and extensive knowledge of funding programs, we look forward to assisting Levy County with this landmark study, to not only analyze future climate conditions but also to position the County to successfully fund the necessary projects that properly mitigate and prepare critical infrastructure to withstand those conditions.

TAB 7: Required and Optional Forms

RESPONSE SIGNATURE FORM

The undersigned attests to his/her authority to submit this response and to bind the entity/firm herein named to perform in accordance with an agreement entered into with the County, if the entity/firm is awarded the agreement by the County. The undersigned further certifies that he/she has read the entire Request for Qualifications package, and any other documentation relating to the Request for Qualifications, and that this response is submitted with full knowledge and understanding of the requirements and time constraints noted herein.

Type of Organization (please check one):

INDIVIDUAL	☐
PARTNERSHIP	☐
CORPORATION	☑
JOINT VENTURE	☐
LLC	☐

Firm Name: Dewberry Engineers Inc.

Home Office Address: 8401 Arlington Boulevard

City, State, Zip: Fairfax, VA 22031

Address (Servicing Levy County if Different from Above): 800 Magnolia Avenue, Suite 1000

Orlando, FL, 32803

Name/Title of Levy County Rep: _____

Telephone: _____ Fax: _____

Signature: _____ Date: _____

Is Respondent a small or minority business, women's business enterprise, or labor surplus area firm?

☐ Yes ■ No (Check which is applicable)

As Addenda are considered binding as if contained in the original Request for Qualifications, it is critical each respondent acknowledge receipt of same. The submittal may be considered void if receipt of addendum is not acknowledged.

Receipt of Addenda Acknowledged:

Addendum No. 1 Dated 12/5/2023	Signature Jay W. Sparks
Addendum No. _____ Dated _____	Signature _____
Addendum No. _____ Dated _____	Signature _____

DRUG FREE WORKPLACE FORM

The undersigned Respondent in accordance with Section 287.087, Florida Statutes, hereby certifies that the Respondent Dewberry Engineers Inc. (name of firm or individual) does:

1. Publish a statement notifying employees that the unlawful manufacture, distributions, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintain a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in subsection (1).
4. In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
5. Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

As the person authorized to sign the statement, I certify that this firm complies fully with the above requirements.

NAME OF RESPONDENT:

Jerry Sparks, PE

Signature: Jerry W. Sparks

Title: Senior Vice President

Date: 12/7/2023

NON-COLLUSION AFFIDAVIT

I, Jerry Sparks, PE of the County of Fairfax, Virginia

According to law on my oath, and under penalty of perjury, depose and say that:

1. I am Jerry Sparks, PE of the firm of Dewberry Engineers Inc. providing this response to RFQ 2024-01 for Comprehensive Vulnerability Assessment Services, and that I executed the said response with full authority to do so.
2. This response has been arrived at independently without collusion, consultation, communication or agreement for the purpose of restricting competition, as to any matter relating to qualifications or responses of any other responder or with any competitor; and no attempt has been made or will be made by the responder to induce any other person, partnership or corporation to submit, or not to submit, a response for the purpose of restricting competition;
3. The statements contained in this affidavit are true and correct, and made with full knowledge that Levy County relies upon the truth of the statements contained in this affidavit in awarding contracts for any services resulting from this RFQ for said project.

Jerry W. Sparks
Signature of Respondent Representative

12/7/2023
Date

STATE OF: Virginia

COUNTY OF: Fairfax

Sworn to (or affirmed) and subscribed before me by means of ☑ physical presence or ☐ online notarization, this 7th day of December, 2023, by Jerry W. Sparks (name), as Senior Vice President (title) for Dewberry Engineers Inc. (name of respondent). ☑ Personally known OR ☐ Produced Identification _____ (type of identification)

VERONICA LYNNE SANDERS
COMMONWEALTH OF VIRGINIA
REGISTRATION NO. 7106646
MY COMM. EXPIRES 1-31-2025
NOTARY PUBLIC

Veronica Lynne Sanders
NOTARY PUBLIC

My Commission Expires: January 31, 2025

CONFLICT OF INTEREST DISCLOSURE STATEMENT

The award hereunder is subject to the provisions of Chapter 112, Florida Statutes. All respondents must disclose with their responses or bids whether any officer, director, employee or agent is also an officer or an employee of the Board of County Commissioners. All respondents must disclose whether any officer, partner, director or proprietor is the spouse or child of one of the members of the Board of County Commissioners. All respondents must disclose the name of any County officer or employee who owns, directly or indirectly, an interest of five percent (5%) or more in the firm or any of its branches or affiliates. All respondents must also disclose the name of any employee, agent, lobbyist, previous employee of the Board, or other person, who has received or will receive compensation of any kind in connection with the response to this RFQ. All respondents are also required to include a disclosure statement of any potential conflict of interest that the respondent may have due to other clients, contracts, or interest associated with the performance of services under this RFQ and any resulting agreement. Use additional sheets if necessary.

Names of Officer, Director, Employee or Agent that is also an Employee of the Board:

N/A _____ N/A _____

Names of Officer, Partner, Director or Proprietor who is spouse or child of Board Member:

N/A _____ N/A _____

Names of County Officer or Employee that owns 5% or more in Respondent's firm:

N/A _____ N/A _____

Names of applicable person(s) who have received compensation:

N/A _____ N/A _____

Description of potential conflict(s) with other clients, contracts or interests:

N/A _____

_____

_____

_____

None of the above applicable: ☒

Signature: _____ Printed Name: Jerry Sparks, PE

Respondent Name: Dewberry Engineers Inc.

Date: 12/7/2023

CONTRACT EXCEPTION FORM

Any proposer who requires/requests revision(s) to the Form of Contract (contained in Section III of this RFQ) must submit this completed Contract Exception Form during the Question portion of the RFQ process. The County is under no obligation to grant any exceptions and proposals that are contingent on exceptions to the Contract being granted will not be accepted. If an exception is rejected by the County and the proposer subsequently submits a proposal, the proposer is deemed to have waived their request for a Contract exception.

Request for revision to Form of Contract
Identify the specific Contract provision(s) that Proposer takes exception to:
Explain the specific revision(s) that are being requested (such as, delete the provision or modify it to state. . . .)

Signature: _____ Printed Name: Jerry Sparks, PE

Proposer Name: Dewberry Engineers Inc.

Date: 12/7/2023

VENDORS ON SCRUTINIZED COMPANIES LISTS

By executing this Certificate, the bid proposer, certifies that it is not: (1) listed on the Scrutinized Companies that Boycott Israel List, created pursuant to section 215.4725, Florida Statutes, (2) engaged in a boycott of Israel, (3) listed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to section 215.473, Florida Statutes, or (4) engaged in business operations in Cuba or Syria. Pursuant to section 287.135(5), Florida Statutes, the County may disqualify the bid proper immediately or immediately terminate any agreement entered into for cause if the bid proposer is found to have submitted a false certification as to the above or if the Contractor is placed on the Scrutinized Companies that Boycott Israel List, is engaged in a boycott of Israel, has been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or has been engaged in business operations in Cuba or Syria, during the term of the Agreement. If the County determines that the bid proposer has submitted a false certification, the County will provide written notice to the bid proposer. Unless the bid proposer demonstrates in writing, within 90 calendar days of receipt of the notice, that the County's determination of false certification was made in error, the County shall bring a civil action against the bid proposer. If the County's determination is upheld, a civil penalty shall apply, and the bid proposer will be ineligible to bid on any Agreement with a Florida agency or local governmental entity for three years after the date of County's determination of false certification by bid proposer.

As the person authorized to sign this statement, I certify that this firm complies fully with the above requirements.

DATE: 12/7/2023

SIGNATURE: 

COMPANY: Dewberry Engineers Inc.

NAME: Jerry Sparks, PE

(Typed or Printed)

ADDRESS: 8401 Arlington Boulevard

TITLE: Senior Vice President

Fairfax, VA 22031

E-MAIL: jsparks@dewberry.com

PHONE NO.: 703.849.0476

VENDOR INFORMATION SHEET

DATE: 12/7/2023

COMPANY NAME: Dewberry Engineers Inc.

PHYSICAL ADDRESS: 8401 Arlington Boulevard, Fairfax, VA, 22031

MAILING ADDRESS: 8401 Arlington Boulevard

CITY: Fairfax **STATE:** VA **ZIP:** 22031

TELEPHONE NUMBER: 703.849.0100

FAX NUMBER:

TOLL FREE NUMBER:

EMAIL: jsparks@dewberry.com

FEID NUMBER: 13-0746510 **OR SSN:**

CONTACT PERSON: Jerry Sparks, PE

TITLE: Senior Vice President

CONTACT NUMBER: 703.849.0476

The information requested above is necessary to update our files or to add your name to the County's vendor list. You are a vital part of the operation of Levy County and we want to thank you for your support. The information on this form will allow us to pay you for the goods and/or services we have received in a timely manner and give us the ability to contact the necessary person in case there is a problem or question in processing.

Form **W-9**
(Rev. October 2018)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer Identification Number and Certification

▶ **Go to *www.irs.gov/FormW9* for instructions and the latest information.**

Give Form to the requester. Do not send to the IRS.

Print or type. See **Specific Instructions** on page 3.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.

Dewberry Engineers Inc.

2 Business name/disregarded entity name, if different from above

3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only **one** of the following seven boxes.

☐ Individual/sole proprietor or single-member LLC ☐ C Corporation ☑ S Corporation ☐ Partnership ☐ Trust/estate

☐ Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ _____

Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is **not** disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.

☐ Other (see instructions) ▶

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):

Exempt payee code (if any) 5

Exemption from FATCA reporting code (if any) _____

(Applies to accounts maintained outside the U.S.)

5 Address (number, street, and apt. or suite no.) See instructions.

8401 Arlington Blvd.

Requester's name and address (optional)

6 City, state, and ZIP code

Fairfax, VA 22031

7 List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN,* later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number

			–		–				

or

Employer identification number

1	3	–	0	7	4	6	5	1	0

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here **Signature of U.S. person ▶** *Richard Goldstein* **Date ▶** 01/10/2022

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to *www.irs.gov/FormW9.*

Purpose of Form

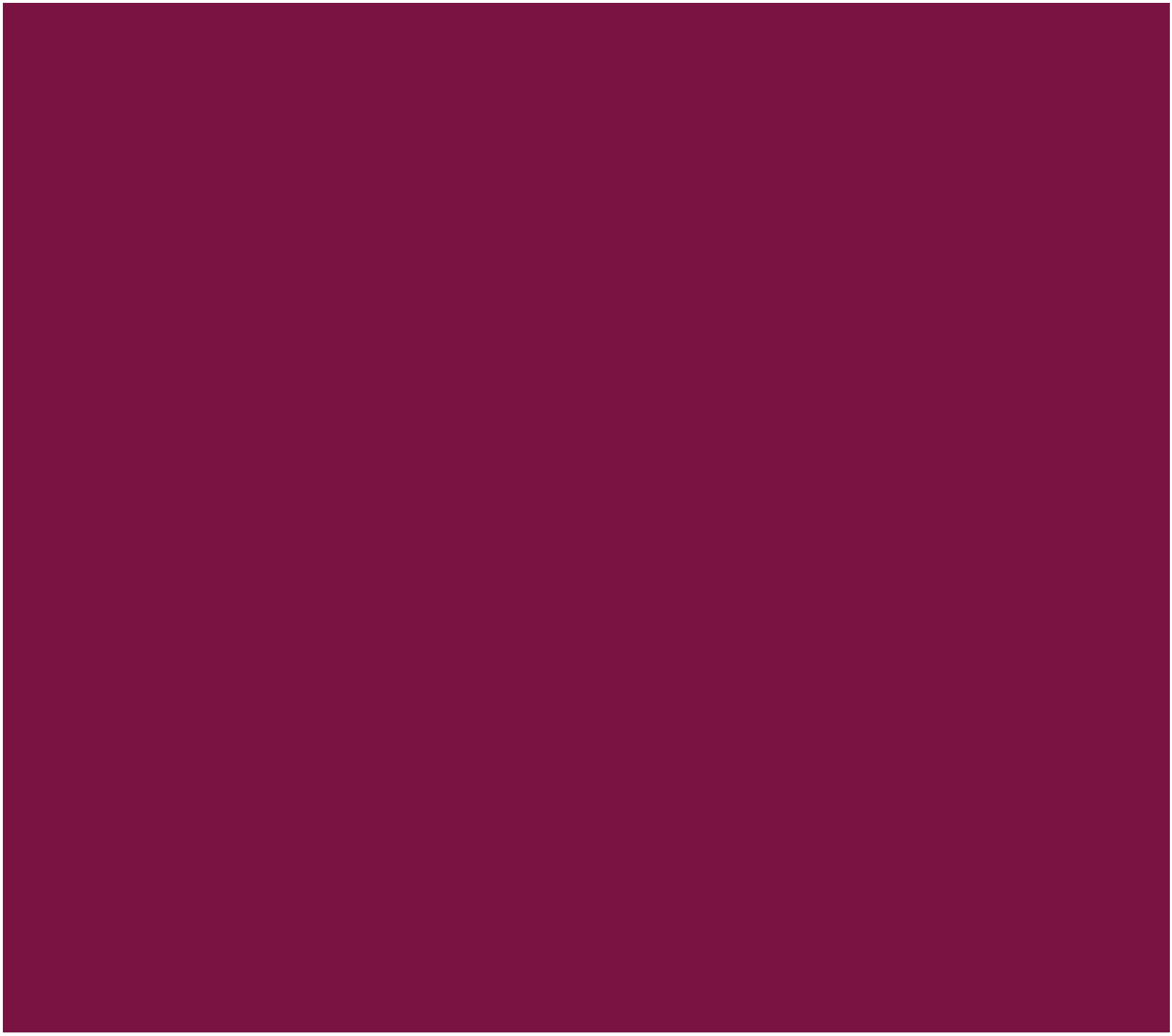
An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, *later.*

Cat. No. 10231X Form **W-9** (Rev. 10-2018)



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